

APPENDIX G1

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Phase I Environmental Site Assessment

Gateway South Building 4

1494 South Waterman Avenue

San Bernardino, San Bernardino County, CA

December 29, 2016

Terracon Project No. 60167496



Prepared for:

Hillwood Investment Properties
Ontario, California

Prepared by:

Terracon Consultants, Inc.
Tustin, California

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials

December 29, 2016



Hillwood Investment Properties
901 Via Piedmonte, Ste 175
Ontario, CA 91764

Attn: Ms. Kathy Hoffer
P: (909) 380-7157
E: Kathy.Hoffer@hillwood.com

Re: Phase I Environmental Site Assessment
Gateway South Building 4
1494 South Waterman Avenue
San Bernardino, San Bernardino County, California
Terracon Project No. 60167496

Dear Ms. Hoffer:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced site. This assessment was performed in accordance with Terracon Proposal No. P60167496 dated November 29, 2016.

We appreciate the opportunity to be of service to you on this project. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,
Terracon Consultants, Inc.

DRAFT
David M. Jamison
Field Geologist

DRAFT
Islam (Sami) R. Noaman
Environmental department manager

DRAFT
Carl A Parten
Principal / Office Manager II

Attachments



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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. P60167496 dated November 29, 2016, and was conducted consistent with the procedures included in ASTM E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The ESA was conducted under the supervision or responsible charge of Islam (Sami) R. Noaman, Environmental Professional. David M. Jamison performed the site reconnaissance on November 29, 2016.

Findings

A summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

Site Description and Use

The site, located at 1494 South Waterman Avenue in San Bernardino, San Bernardino County, California, and is developed with an 18-hole golf course/country club referred to as the San Bernardino Public Golf Club, on a 72 acres. Other site improvements include a club house with locker rooms, a restaurant, and an office, and an electric cart storage buildings, asphalt-paved parking lots, driveways, and paved cart paths. Operations at the site at the time of the site reconnaissance consisted of retailing golf goods and food, golf carts storage and washing.

Historical Information

Based on a review of historical information the site consisted of undeveloped land from at least 1896. Residential development is visible on the central and western portions of the site with the remainder developed as agricultural row crops in the late 1930s. By the late 1950s the agricultural use had ceased and the site consisted of vacant land and residences through the late 1960s when the residences were razed and the current golf course was developed. By the mid-1970s the current layout of buildings is visible around the golf course club house with the addition of the golf cart storage building.

The property adjoining the site to the north has consisted of undeveloped land followed by a road and residences from at least 1896 through the late 1930s when agricultural use began. By the late 1950s agricultural use had ceased, and additional residences were developed. The north-adjointing driving range was developed in the mid-2000s along with the current golf cart maintenance building. South Waterman Avenue was observed abutting the site to the east by the late 1930s followed by agricultural land. Residences were developed in the late 1940s and were cleared for commercial development by the mid-1960s. The current commercial buildings east of South Waterman Avenue are visible by the late 2000s and have remained relatively unchanged. The south-adjointing property consists of the Santa Ana River. The property adjoining the site to

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Gateway South Building 4 ■ San Bernardino, CA
December 29, 2016 ■ Terracon Project No. 60167496



the west consisted of undeveloped land from at least 1896 and was developed for agricultural use by the late 1930s. In the late 1950s the current flood control canal and the San Bernardino Water Reclamation Plant are visible and have remained relatively unchanged through the present.

Records Review

Selected federal and state environmental regulatory databases as well as responses from state and local regulatory agencies were reviewed. The San Bernardino Golf Club, the site, was listed in the regulatory database report as a Facility and Manifest Data (HAZNET), and San Bernardino County Permitted (San Bern. Co. Permit) facility. A review of the South Coast Air Quality Management District online Facility Information Database lists a permit for storage and dispensing gasoline from 1990 through 2014 with the permit listed as active. According to Mr. Sonny Hammond, the facility was equipped with underground storage tanks (USTs) in the location of the current above ground storage tank (AST) before 1998. Mr. Hammond provided Terracon with a tank closure report for the removal of the tanks. Based on a review of the report one 550-gallon diesel UST and one 550-gallon gasoline UST were removed from the site on November 10, 1998. Confirmation samples collected from bottom of USTs excavation pit, from the side walls of the excavation and from stock piled material were analyzed for total petroleum hydrocarbons in the gas and diesel range (TPH-D, TPH-G), benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tert-butyl ether (MTBE). The samples reportedly did not indicate concentrations above laboratory method reporting limits. Based on the findings from the confirmation sampling activities, the San Bernardino County Fire Department granted closure to the facility on November 19, 1998. A copy of the closure report and closure letter are included in Appendix C. Based on a review of the closure report and regulatory closure status, the former USTs do not appear to represent an REC to the site at this time.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or distance from the site.

Site Reconnaissance

During the site reconnaissance, a golf cart wash down area and sump, one 1,000-gallon two-compartment gasoline and diesel AST, two septic tanks and leach fields, interior floor drains, one pad-mounted transformer, one solid waste disposal dumpster, and one grease trap were observed. Based on visual site observations, indications of RECs were not identified.

Adjoining Properties

The properties adjoining the site to the north consist of a driving range, asphalt paved parking, the golf carts maintenance building, vacant land, residences and Dumas Street. South Waterman Avenue abuts the site to the east followed by the Inland Regional Center (1365 South Waterman Avenue), asphalt-paved parking lots, Sepulveda Building Materials (1485 South Waterman Avenue), and Structural Materials Company (1515 South Waterman Avenue). A flood control district service road abuts the site to the south followed by the Santa Ana River. The property adjoining the site to the west consists of a flood control canal followed by the San Bernardino

Water Reclamation Plant (399 Chandler Place). Indications of RECs were not observed in connection with the adjoining properties.

Additional Services

No additional services were conducted.

Significant Data Gaps

No significant data gaps were encountered.

Opinions and Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E 1527-13 at 1494 South Waterman Avenue, San Bernardino, San Bernardino County, California, the site. Recognized Environmental Conditions (RECs) or Controlled RECs (CREC) were not identified in connection with the site

Recommendations

Based on the scope of services, limitations, and conclusions of this assessment, Terracon did not identify RECs or CRECs. As such, no additional investigation is warranted at this time.

1.0 INTRODUCTION

1.1 Site Description

Site Name	Gateway South Building 4
Site Location/Address	1494 South Waterman Avenue, San Bernardino, San Bernardino County, California
Land Area	Approximately 72 acres
Site Improvements	The site is improved with a golf course and the associated restaurant/club house, golf cart storage building, asphalt parking area and utilities.

The site location is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the USGS 7.5-minute series topographic map. A Site Diagram of the site and adjoining properties is included as Exhibit 2 of Appendix A. Acronyms and terms used in this report are described in Appendix F.

1.2 Scope of Services

This Phase I ESA was performed in accordance with Terracon Proposal No. P60167496 dated November 29, 2016, and was conducted consistent with the procedures included in ASTM E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews, including local government inquiries, as applicable, and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report. ASTM E1527-13 contains a new definition of "migrate/migration," which refers to "the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface." By including this explicit reference to migration in ASTM E1527-13, the standard clarifies that the potential for vapor migration should be addressed as part of a Phase I ESA and was considered by Terracon in evaluation of RECs associated with the site.

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the

report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations and Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e. evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder. This ESA was further limited by the following:

- Reasonable attempts were made to contact the local and state government agencies; however, at the issuance of this report, a response from some of the agencies has not been received. Based on the historical and environmental database review, the absence of a response from these agencies does not appear to represent a significant data gap.

An evaluation of the significance of limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions,

recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site’s current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances or petroleum products may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of Hillwood Investment Properties. Use or reliance by any other party is prohibited without the written authorization of Hillwood Investment Properties and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and Terracon’s Agreement. The limitation of liability defined in the Agreement is the aggregate limit of Terracon’s liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E1527-13 Sections 4.6 and 4.8. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user’s responsibilities in Section 6 of ASTM E1527-13.

1.6 Client Provided Information

Prior to the site visit, Ms. Kathy Hoffer, client’s representative, was asked to provide the following user questionnaire information as described in ASTM E1527-13 Section 6.

Client Questionnaire Responses

Client Questionnaire Item	Client Did Not Respond	Client’s Response	
		Yes	No
Specialized Knowledge or Experience that is material to a REC in connection with the site.	X		

Client Questionnaire Item	Client Did Not Respond	Client's Response	
		Yes	No
Actual Knowledge of Environmental Liens or Activity Use Limitations (AULs) that may encumber the site.	X		
Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site.	X		
Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site.	X		
Obvious Indicators of Contamination at the site.	X		

The client did not provide the requested User's information as of the issuance date of the report, which represents a data gap. Terracon assumes the client is evaluating the questionnaire information outside the context of Terracon's Phase I ESA scope of work and report.

2.0 PHYSICAL SETTING

Physical Setting

Physical Setting Information		Source
Topography (Refer to Appendix A for an excerpt of the Topographic Map)		
Site Elevation	Approximately 1,000 feet (NGVD)	USGS Topographic Map, San Bernardino South Quadrangle, 2012
Surface Runoff/ Topographic Gradient	Relatively flat with a general gradient towards the west-southwest	
Closest Surface Water	The Santa Ana River, adjoining the site to the south.	
Soil Characteristics		
Soil Type	Tujunga gravelly loamy sand	Southwestern San Bernardino County, CA, USDA Web Soil Survey, issued 2016
Description	The Tujunga gravelly loamy sand is a somewhat excessively drained hydrologic group A soil. The soil forms zero to nine percent slopes and consists of alluvium derived from granite.	
Geology/Hydrogeology		
Formation	Pleistocene-Holocene sedimentary rocks.	Geologic Map of California, 2010
Description	Unconsolidated and semi-consolidated alluvium, lake, playa, and terrace deposits.	

Physical Setting Information		Source
Estimated Depth to First Occurrence of Groundwater	Measured at approximately 120 feet below ground surface at facility located approximately 700 feet east of the site.	Water Quality Control Board GeoTracker Former Norton Air Force Base Groundwater Monitoring geotracker.waterboards.ca.gov
*Hydrogeologic Gradient	The hydrogeologic gradient was measured to be to the south-southeast at the above referenced facility.	

* The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area, in order to help identify RECs associated with past uses. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps, Aerial Photographs, Sanborn Maps

Readily available historical USGS topographic maps, selected historical aerial photographs (at approximately 10 to 15 year intervals) and historical fire insurance maps produced by the Sanborn Map Company were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps, aerial photographs and Sanborn Maps are summarized below.

Historical fire insurance maps produced by the Sanborn Map Company were requested from EDR to evaluate past uses and relevant characteristics of the site and surrounding properties. Sanborn maps for the site area were not produced and so were not available for review.

- Topographic map:
 - San Bernardino, California, published in **1896, 1898, 1901** (1:62,500)
 - Colton, California, published in **1943** (1:31,680)
 - San Bernardino South, California, published in **1954, 1967, 1973, 1980, 2012** (1:24,000)
- Aerial photograph:
 - USDA, **1938, 1949, 1953, 1959, 1968, 1985, 1989**, 1"=500'
 - USGS, **1966, 1975**, 1"=500'
 - USGS/DOQQ, **1994**, 1"=500'
 - USDA/NAIP, **2005, 2006, 2009, 2010, 2012**, 1"=500'

Historical Topographic Maps, Aerial Photographs and Sanborn Maps

Direction	Description
Site	Undeveloped land (1896-1901); developed with residences on the central and western portions of the site, and agricultural row crops on the remainder of the site (1938-1953); agricultural use has ceased, the site consists largely of vacant land (1959); the residences on the site have been cleared (1966); the site has been developed as a golf course (1968); developed with the cart storage barn north of the club house (1975-2012).
North	Undeveloped land followed by a road and two residences (1896-1901); developed with residences and row crops (1938-1953); agricultural use has ceased and additional residences have been developed (1959-1968); developed with the golf course maintenance building (1975-1994); developed with a driving range and a new maintenance building (2005-2012).
East	Undeveloped land (1896-1901); a road abuts the site to the east followed by agricultural row crops (1938); developed with residences east of the road (1949-1959); the residences have been cleared and commercial development has commenced east of Waterman Avenue (1966-2006); developed with the Inland Regional Center (2009-2012).
South	The Santa Ana River abuts the site to the south (1896-2012).
West	Undeveloped land (1896-1901); developed as agricultural land (1938-1953); the current storm water canal followed by the San Bernardino Water Reclamation Plant (1959-2012).

3.2 Historical City Directories

The Cole Information Services, Haines Company, GTE Directories, Pacific Telephone Co, Luskey Brothers, Los Angeles Directory Company, and San Bernardino Directory Company city directories used in this study were made available through EDR (selected years reviewed: 1922-2013) and were reviewed at approximate five-year intervals, if readily available. Street listings not available prior to [1975]. The current street address for the site was identified as 1494 South Waterman Avenue.

Historical City Directories

Direction	Description
Site	1494 South Waterman Avenue: No listings (1922-1970); SBDO Golf Course (1975-1981); San Bernardino Golf Club (1991-2013).
North	200-24098 Dumas Street: No listings
East	1365 South Waterman Avenue: No listings (1922-2008); Beautiful Light Inn, Inland Regional Center (2013). 1485 South Waterman Avenue: No listings (1922-1991); Lindsay Concrete Products (1996); Sepulveda Building Materials (2008-2013). 1515 South Waterman Avenue: No listings (1922-2003); Structural Materials Company (2008-2013).
South	No address / Santa Ana River

Direction	Description
West	399 Chandler Place: No listings (1922-2008); City of San Bernardino (2013).

3.3 Site Ownership

Based on a review of the parcel map provided by EDR the site is currently owned by the City of Riverside. No previous owners are listed.

3.4 Title Search

At the direction of the client, a title search was not included as part of the scope of services. Unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.5 Environmental Liens and Activity and Use Limitations

Environmental lien and activity and use limitation records recorded against the site were not provided by the client. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

While not requested by the client, the EDR regulatory database report included a review of both Federal and State Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the site was not listed on the EC or IC databases. Please note that in addition to these federal and state listings, AULs can be recorded at the county and municipal level that may not be listed in the regulatory database report. Based on its limited nature, this review does not constitute a review of AULs per ASTM E1527-13.

3.6 Interviews Regarding Current and Historical Site Uses

The following individual was interviewed regarding the current and historical use of the site.

Interviewee

Interviewer	Interviewee/Phone #	Title	Date/Time
David Jamison	Mr. Sonny Hammond / (909) 528-5056	Owner Representative	11/29/2016 / 10:30 AM

At the time of the site reconnaissance Terracon interviewed Mr. Sonny Hammond, owner representative, regarding the current and historical use of the site. Mr. Hammond stated that he has been associated with the site for approximately 20 years. According to Mr. Hammond the site consisted of farmland through the late 1960s when the current golf course was developed. Prior to 1998 the site was equipped with two underground storage tanks (USTs) which were reportedly removed in 1998 and replaced with existing above ground storage tank (AST). Mr. Hammond

provided Terracon with a closure report for the removal of the former USTs which is further discussed below in section 4.1. Other subsurface features located on the site reportedly consist of groundwater production wells owned by the City of Riverside, two septic tanks and two leach fields around the club house, and a main trunk sewer line crossing the driving range. Mr. Hammond was not aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site.

3.7 Prior Report Review

Terracon requested the client provide any previous Report Types selection they are aware of for the site. Previous reports were not provided by the client to Terracon for review.

4.0 RECORDS REVIEW

Regulatory database information was provided by EDR, a contract information services company. The purpose of the records review was to identify RECs in connection with the site. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated, and the scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Federal and State/Tribal Databases

Listed below are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in Appendix D.

Federal Databases

Database	Description	Distance (miles)	Listings
CERCLIS	Comprehensive Environmental Response, Compensation, & Liability Information System	0.5	0
CERCLIS / NFRAP	Comprehensive Environmental Response, Compensation, & Liability Information System/No Further Remedial Action Planned	0.5	0
ERNS	Emergency Response Notification System	Site	0

Database	Description	Distance (miles)	Listings
IC / EC	Institutional Control/Engineering Control	Site	0
NPL	National Priorities List	1	0
NPL (Delisted)	National Priorities Delisted List	0.5	0
RCRA CORRACTS/ TSD	RCRA Corrective Action Activity	1	0
RCRA Generators	Resource Conservation and Recovery Act	Site and adjoining properties	0
RCRA Non-CORRACTS/ TSD	RCRA Non-Corrective Action Activity	0.5	0

State/Tribal Databases

Database	Description	Distance (miles)	Listings
RESPONSE	Department of Toxic Substances Control (DTSC): State Response Sites	1.0	1
ENVIROSTOR	DTSC: EnviroStor Database	1.0	5
CHMIRS	EPA Office of Emergency Services: California Hazardous Material Incident Report System	Site and adjoining	0
CORTESE	EPA Office of Emergency Services: Hazardous Waste & Substances Sites List	0.1	0
HIST CORTESE	EPA Office of Emergency Services: Historical Hazardous Waste & Substances Sites List	0.1	7
HAZNET	EPA: Facility and Manifest Data	Site and Adjoining	1
SWF / LF (SWIS)	California Department of Resources Recycling and Recovery: Solid Waste Information System	0.5	1
LUST	State Water Resources Control Board (SWRCB): Leaking Underground Storage Tank Database	0.5	13
SWEEPS UST	SWRCB: Statewide Environmental Evaluation and Planning System	0.25	2
HIST UST	SWRCB: Hazardous Substance Storage Container Database	0.25	2
CA FID UST	EPA: Facility Inventory Database Underground Storage Tank	0.25	2
UST/AST	SWRCB: Active Underground Storage Tank Facilities/EPA Aboveground Petroleum Storage Tank Facilities	0.25	0
		0.25	1
SLIC	SWRCB: Spills, Leaks, Investigations and Cleanup Cases	0.5	0
DRYCLEANERS	DTSC: Cleaner Facilities	0.25	0
VCP	DTSC: Voluntary Cleanup Program sites	0.5	0
Brownfields	EPA: Brownfield Sites	0.5	0
SWRCY	California Department of Conservation: Recycler Database	Site	0

Database	Description	Distance (miles)	Listings
NPDES	EPA, National Pollutant Discharge Elimination System	Site	0
FINDS	EPA, Facility Index System/Facility Registry System	Site	0
ECHO	EPA: Enforcement & Compliance History Information	Site	0
EDR Hist Auto	EDR Exclusive Historic Gas Stations	0.1	0
EDR Hist Cleaner	EDR Exclusive Historic Dry Cleaners	0.1	0
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank	0.25	0

In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local, and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report included in Appendix D.

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities. Facilities within 500 feet are listed in order of proximity to the site. Additional discussion for selected facilities follows the summary table.

Listed Facilities

Facility Name And Location	Estimated Distance / Direction/ Hydrogeologic Gradient	Database Listings	Is a REC, CREC, or HREC to the Site
San Bernardino Golf Club 1494 S Waterman Ave	Site	HAZNET, San Bern. Co. Permit	No, discussed below
Sepulveda Building Materials 1485 S Waterman Ave	140 feet / East / Cross-gradient	AST, HAZNET, San Bern. Co. Permit	No, discussed below
Structural Materials Company 1515 S Waterman Ave	140 feet / East / Cross-gradient	San Bern. Co. Permit	No, discussed below
Roofers Asphalt Equipment Co. 9975 S. Waterman Ave	140 feet / East / Cross-gradient	HIST UST	No, discussed below
Leonard Ojena 9501 S Waterman Ave	140 feet / East / Cross-gradient	SWEEPS UST, CA FID UST	No, discussed below
Meadowbrook Dairy 1335 Waterman Avenue	470 feet / Northeast / Cross-gradient	San Bern. Co. Permit	No, based on distance and depth to groundwater

San Bernardino Golf Club

The San Bernardino Golf Club, the site, was listed in the regulatory database report as a Facility and Manifest Data (HAZNET), and San Bernardino County Permitted (San Bern. Co. Permit)

facility. A review of the South Coast Air Quality Management District online Facility Information Database lists a permit for storage and dispensing gasoline from 1990 through 2014 with the permit listed as active. According to Mr. Sonny Hammond, the facility was equipped with underground storage tanks (USTs) in the location of the current above ground storage tank (AST) before 1998. Mr. Hammond provided Terracon with a tank closure report for the removal of the tanks. Based on a review of the report one 550-gallon diesel UST and one 550-gallon gasoline UST were removed from the site on November 10, 1998. Confirmation samples collected from bottom of USTs excavation pit, from the side walls of the excavation and from stock piled material were analyzed for total petroleum hydrocarbons in the gas and diesel range (TPH-D, TPH-G), benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tert-butyl ether (MTBE). The samples reportedly did not indicate concentrations above laboratory method reporting limits. Based on the findings from the confirmation sampling activities, the San Bernardino County Fire Department granted closure to the facility on November 19, 1998. A copy of the closure report and closure letter are included in Appendix C. Based on a review of the closure report and regulatory closure status, the former USTs do not appear to represent an REC to the site at this time.

Sepulveda Building Materials

Sepulveda Building Materials located approximately 140 feet east of the site in a topographic up-gradient position relative to the site, is listed in the regulatory database report as an above ground storage tank (AST), HAZNET, and San Bern. Co Permit facility. Based on a review of the listings, waste streams generated at the facility is reported as other organic solids in years 2007, 2011, and 2014. Based on a review of the AST listing, the size, location and material stored in the AST are not reported. Based on the absence of regulatory release listings and the anticipated depth to groundwater in the site vicinity, the Sepulveda Building Materials listings do not appear to represent a REC to the site.

Structural Materials Company

Structural Materials Company located approximately 140 feet east of the site in a topographic up-gradient position relative to the site, is listed in the regulatory database report as a San Bern. Co. Permit facility. Based on a review of the listing, expired permits for hazardous materials 1-3 chemicals special, special generator, and special handler are listed for the facility. Based on the absence of regulatory release listings and the anticipated depth to groundwater in the site vicinity, Structural Materials Company does not appear to represent an REC to the site.

Roofers Asphalt Equipment Co.

Roofers Asphalt Equipment Co. located approximately 140 feet east of the site in a topographic up-gradient position was listed in the regulatory database report as a historical underground storage tank (HIST UST) facility. Based on a review of the listing, the facility was equipped with one 10,000-gallon diesel UST in 1969 and one 6,000-gallon gasoline UST in 1981. Additional information pertaining to the historical USTs was not provided in the regulatory databases listings. Based on the absence of regulatory release listings and the anticipated depth to groundwater in

the site vicinity, Roofers Asphalt Equipment Co. does not appear to represent an REC to the site at this time.

Leonard Ojena

Leonard Ojena, located approximately 140 feet east of the site in a topographic up-gradient position was listed in the regulatory database report as Statewide Environmental Evaluation and Planning System (SWEEPS UST) and Facility Inventory System Underground Storage Tank (CA FID UST) facility. Based on a review of the listings the facility was equipped with three USTs. The installation date, size, and materials stored in the tanks is not reported. Based on the absence of regulatory release listings and the anticipated depth to groundwater in the site vicinity, Leonard Ojena does not appear to represent an REC to the site.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or distance from the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report listed eight facilities in the unmapped section. Determining the location of unmapped facilities is beyond the scope of this assessment; however, none of these facilities were identified as the site or adjacent properties. These facilities are listed in the database report in Appendix D.

4.2 Local Agency Inquiries

Agency Contacted/ Contact Method	Response
San Bernardino County Public Health Department / Fax: (909) 387-4323	At the issuance of this report a response from the San Bernardino County Public Health Department has not been received.
San Bernardino County Fire Department / Fax: (909) 386-8460	At the issuance of this report a response from the San Bernardino County Fire Department has not been received.
San Bernardino County Community Development / Fax: (909) 387-8306	At the issuance of this report a response from the San Bernardino County Community Development office has not been received.
San Bernardino City Clerk / Fax: (909) 384-5158	Ms. Isabel Reyes with the San Bernardino City Attorney's Office responded with building permits applications for the construction of the current cart storage building in 1970 and the current maintenance shop in 1972.

Agency Contacted/ Contact Method	Response
South Coast Air Quality Management District / Fax: (909) 396-3330	Ms. Lora Trapp with the South Coast Air Quality Management District responded with records including permits to operate gasoline storage and dispensing equipment from 1990 through 2014. The 2014 permit is still active. Violations were also provided and included failing to post a sign indicating vehicles were not to be directly filled from the tank and failing to post the permit to operate.
Santa Ana Regional Water Quality Control Board / Email: filereview8@waterboards.ca.gov	According to Ms. Mary Edwards with the Santa Ana Regional Water Quality Control Board, no records for the site were found.
Department of Toxic Substances Control / Email: pubreqact@dtsc.ca.gov	According to Ms. Ruth J Saroian with the Department of Toxic Substances Control, records for the site were not found.

4.3 Local Area Knowledge

Based on a review of the California Department of Conservation Division of Oil, Gas, and Geothermal Resource Well Finder website ([DOGGR](#)), there are no active or plugged oil production wells located at the site or adjoining properties.

The portion of San Bernardino that the site is located in is known to Terracon to be an area potentially affected by groundwater contamination originating at the Former Norton Air Force Base (NAFB). Terracon reviewed regulatory files for the groundwater contamination and based on a review of the most recent plume maps produced for the facility do indicate impact to groundwater beneath the site; therefore, the former NAFB does not appear to represent a REC to the site at this time. Pertinent NAFB most recent groundwater monitoring report is included in Appendix C.

5.0 SITE RECONNAISSANCE

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. Exhibit 2 in Appendix A is a Site Diagram of the site. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix B. Credentials of the individuals planning and conducting the site visit are included in Appendix E.

General Site Information

Site Reconnaissance	
Field Personnel	David M. Jamison
Reconnaissance Date	November 29, 2016
Weather Conditions	Clear, Mid 50s, breezy
Site Contact/Title	Sonny Hammond / Owner Representative, Property Manager

Building Description				
Building Identification	Building Use	Approx. Construction Date	Number of Stories	Approx. Size (ft ²)
Main Building	20% Office, 20% Kitchen, 60% Club House and office	1968, remodeled in 1972	1	6,500
Golf Cart Storage	Storing and Charging Golf Carts 100%	1970	1	4,000

Site Utilities	
Drinking Water	City of San Bernardino
Wastewater	Septic System
Electric	Southern California Edison
Natural Gas	Southern California Gas

5.2 Overview of Current Site Occupants

The site, located at 1494 South Waterman Avenue in San Bernardino, San Bernardino County, California, and is developed with an 18-hole golf course/country club referred to as the San Bernardino Public Golf Club, on a 72 acres. Other site improvements include a club house with locker rooms, a restaurant, and an office, and an electric cart storage buildings, asphalt-paved parking lots, driveways, and paved cart paths.

5.3 Overview of Current Site Operations

Operations at the site at the time of the site reconnaissance consisted of retailing golf goods and food, golf carts storage and washing.

5.4 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an “X”) are discussed in more detail following the table.

Site Characteristics

Category	Item or Feature	Observed or Identified
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	
	Heating and/or cooling systems	
	Paint booths	
	Sub-grade mechanic pits	
	Wash-down areas or carwashes	X
	Pesticide/herbicide production or storage	
	Printing operations	
	Metal finishing (e.g., electroplating, chrome plating, galvanizing, etc.)	
	Salvage operations	
	Oil, gas or mineral production	
Other processes or equipment		
Aboveground Chemical or Waste Storage	Aboveground storage tanks	X
	Drums, barrels and/or containers ≥ 5 gallons	
	MSDS or SDS	
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, French drains, catch basins and/or dry wells	
	Grease traps	X
	Septic tanks and/or leach fields	X
	Oil/water separators, clarifiers, sand traps, triple traps, interceptors	
	Pipeline markers	
	Interior floor drains	X
Electrical Transformers/PCBs	Transformers and/or capacitors	X
	Other equipment	

Category	Item or Feature	Observed or Identified
Releases or Potential Releases	Stressed vegetation	
	Stained soil	
	Stained pavement or similar surface	
	Leachate and/or waste seeps	
	Trash, debris and/or other waste materials	X
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	
	Surface water discoloration, odor, sheen, and/or free floating product	
	Strong, pungent or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
Other Notable Site Features	Surface water bodies	X
	Quarries or pits	
	Wastewater lagoons	
	Wells	X

Site Operations, Processes, and Equipment

Wash-down areas or carwashes

During the site reconnaissance a wash down area for golf carts was observed north of the golf cart storage building. The wash down area consists of drains which feed to a sump. The water from the sump is pumped through a filtration system and is discharged onto the driving range. The sediment from the drains is cleaned weekly and disposed of in the solid waste disposal dumpster. The sump is pumped out approximately one a year by Goddard's / Nazco Septic Services. Mr. Sonny Hammond stated that the vehicles being washed are the electric golf carts. Based on the type of vehicles being washed and visual site observations the golf cart wash down area and sump do not appear to represent an REC to the site.

Aboveground Chemical or Waste Storage

Aboveground storage tanks

During the site reconnaissance Terracon observed a 1,000-gallon split tank AST which contains 500-gallons of unleaded fuel and 500-gallons of diesel fuel. The tank was located north of the golf cart storage building and south of the on-site maintenance building. The tank was observed to be installed inside a secondary containment and indications of releases were not observed at the time of the reconnaissance. Based on visual site observations the AST does not appear to represent an REC to the site at this time.

Underground Chemical or Waste Storage, Drainage or Collection Systems

Grease traps

During the site reconnaissance a grease trap was observed west of the club house. The grease trap is reportedly associated with kitchen in the club house. After the grease trap the waste water enters the western septic tank. The grease trap is serviced one to three times per year by Goddard's / Nazco Septic and Plumbing Services. Based on the non-suspect operations associated with the grease trap it does not appear to represent an REC to the site at this time.

Septic tanks and/or leach fields

During the site reconnaissance two septic tanks and two leach fields were reported to Terracon by Mr. Sonny Hammond. The septic tanks are located west and south of the club house building and are reportedly 750-gallons and 500-gallons respectively. The leach field from the western tank extends north along the west side of the building and the leach field from the southern tank extends west along the south side of the building. The septic system to the west reportedly handles the kitchen and men's restroom while the southern system was installed from the women's restroom. Based on the non-suspect use of the septic systems and leach fields, these features do not appear to represent an REC to the site at this time.

Interior floor drains

During the site reconnaissance interior floor drains were observed in the restrooms and kitchen of the club house. Hazardous materials were not observed to be stored in the vicinity of the drains. Staining or other indications of releases were not observed in the vicinity of the drains at the time of the site reconnaissance. Based on visual observations the interior floor drains do not appear to represent an REC to the site.

Electrical Transformers/ PCBs

Transformers and/or capacitors

At the time of the site reconnaissance a pad mounted transformer was observed on the eastern portion of the site. Information concerning PCB content of the transformer was not observed at the time of the reconnaissance. Staining or other indications of a release were not observed at the time of the reconnaissance. Based on site observations the pad mounted transformer does not appear to represent an REC to the site.

Releases or Potential Releases

Trash, debris and/or other waste materials

At the time of the site reconnaissance one solid waste disposal dumpster serviced by Burrtec Waste Industries, Inc. was observed northeast of the golf cart storage building. Hazardous materials and staining or indications of releases were not observed in or around the dumpster at the time of the reconnaissance. Based on visual site observations the solid waste disposal dumpster does not appear to represent an REC to the site at this time.

Other Notable Site Features

Surface water bodies

At the time of the site reconnaissance three surface water ponds were observed on the central portion of the site. Based on an interview with Mr. Sonny Hammond, the ponds are reportedly filled from groundwater pumped on the site and are used to charge the sprinkler and irrigations system for the golf course. Based on visual site observations and the source of the water, the surface water ponds do not appear to represent and REC to the site at this time.

Wells

At the time of the site reconnaissance groundwater production wells were observed on the site. The wells are located on the southeast corner, northeast corner, parking lot, and western portion of the site. The wells are sealed at the surface and are used as production wells for drinking water for the City of Riverside. Based on the surface finish of the wells and the use as a source for drinking water, this feature does not appear to represent an REC to the site at this time.

6.0 ADJOINING PROPERTY RECONNAISSANCE

Visual observations of adjoining properties (from site boundaries) are summarized below.

Adjoining Properties

Direction	Description
North	The property adjoining the site to the north, from east to west, consists of a driving range, an asphalt-paved parking lot, the golf cart maintenance building and Dumas Street followed by residences and vacant land (200-24098 Dumas Street).
East	South Waterman Avenue abuts the site to the east followed by the Inland Regional Center (1365 South Waterman Avenue), asphalt-paved parking lots, Sepulveda Building Materials (1485 South Waterman Avenue), and Structural Materials Company (1515 South Waterman Avenue).
South	A flood control district service road followed by the Santa Ana River abuts the site to the south.
West	A flood control canal abuts the site to the west followed by the San Bernardino Water Reclamation plant (399 Chandler Place)

RECs were not observed with the adjoining properties.

7.0 ADDITIONAL SERVICES

Per the agreed scope of services specified in the proposal, additional services (e.g. asbestos sampling, lead-based paint sampling, wetlands evaluation, lead in drinking water testing, radon testing, vapor encroachment screening, etc.) were not conducted.

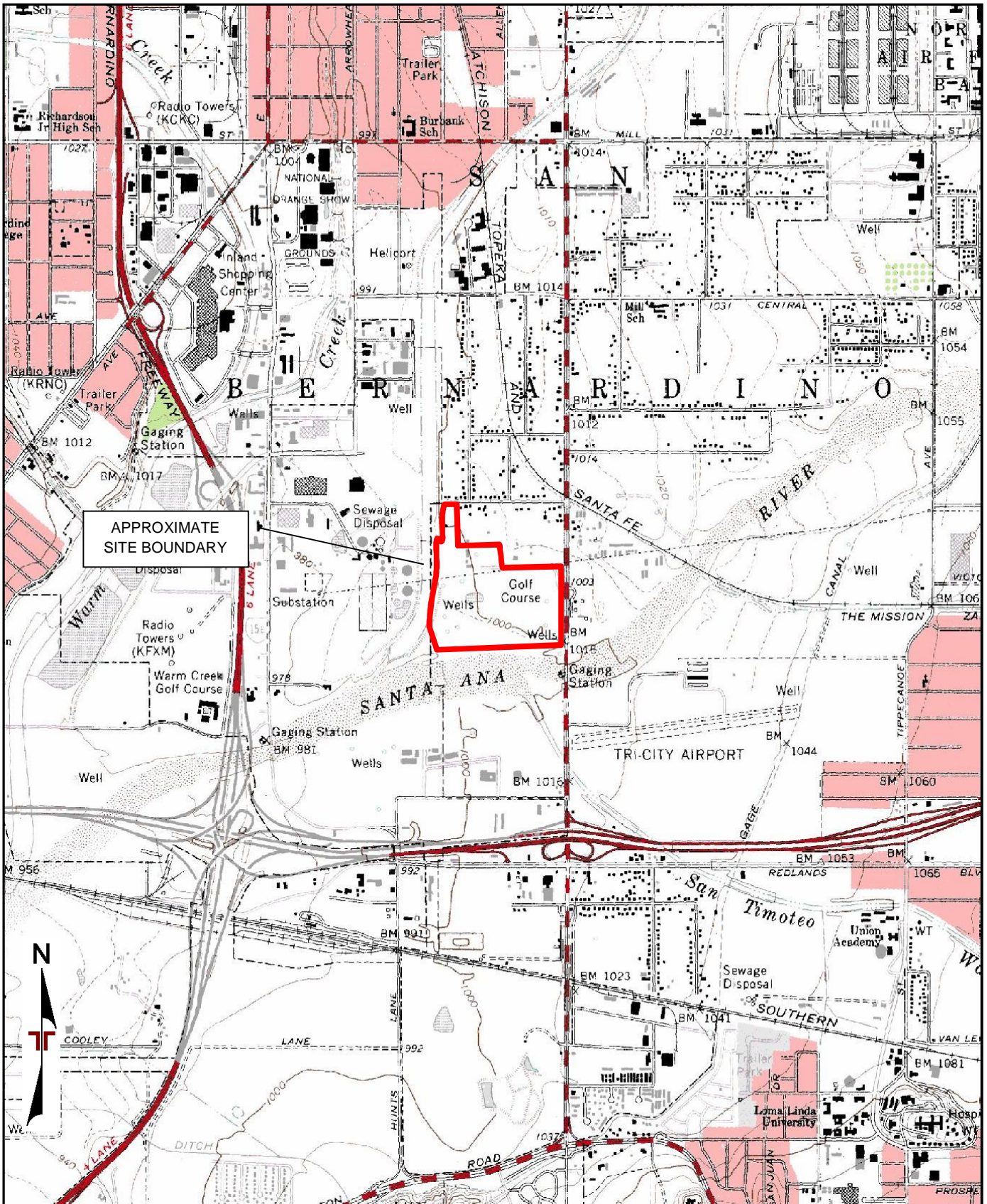
8.0 DECLARATION

I, Islam (Sami) R. Noaman, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

DRAFT

Islam (Sami) R. Noaman, E.I.T.
Environmental Department manager
Environmental Professional

APPENDIX A
EXHIBIT 1 – TOPOGRAPHIC MAP
EXHIBIT 2 – SITE DIAGRAM



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY
 QUADRANGLES INCLUDE: SAN BERNARDINO SOUTH, CA (1/1/1980).

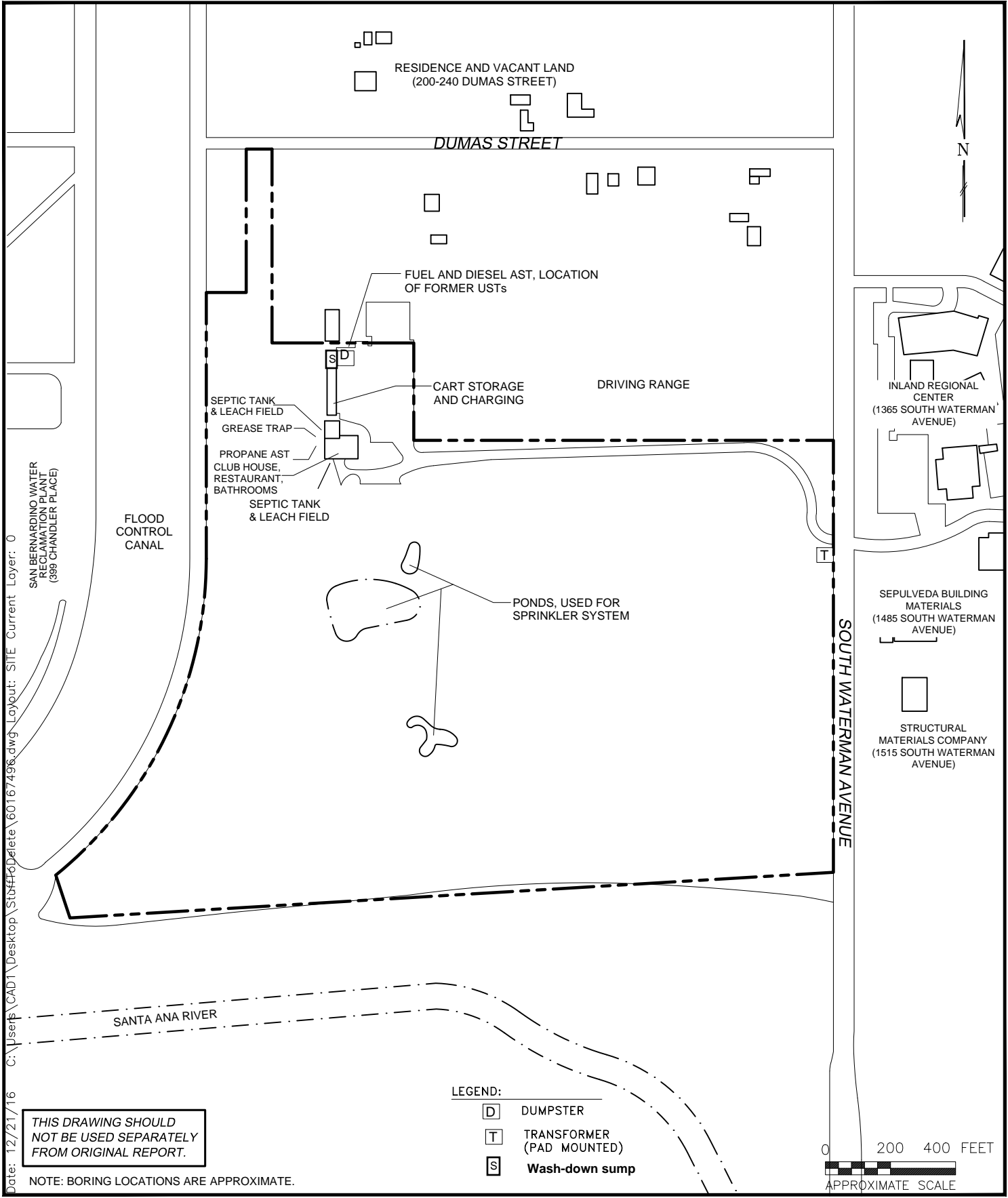
Project Manager:	DJ
Drawn by:	DJ
Checked by:	CAP
Approved by:	CAP

Project No.	60167496
Scale:	1"=2,000'
File Name:	Ex. 1
Date:	12/22/16

Terracon
 1421 Edinger Ave Ste C
 Tustin, CA 92780-6287

TOPOGRAPHIC MAP
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino, San Bernardino County, California

Exhibit	1
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Date: 12/21/16 C:\Users\CAD1\Desktop\Std#40Delete\60167496.dwg Layout: SITE Current Layer: 0

Project Mgr:	DJ	Project No.	60167496
Drawn By:	ERR	Scale:	AS SHOWN
Checked By:	DJ	Date:	12/21/16
Approved By:	CAP		

Terracon
 Consulting Engineers and Scientists
 (Registration No.: F-3272)
 1421 EDINGER AVE TUSTIN, CALIFORNIA 92870
 PH. (949) 261-0051 FAX. (949) 261-6110

SITE DIAGRAM

GATEWAY SOUTH BUILDING 4
 1494 SOUTH WATERMAN AVENUE
 SAN BERNARDINO, SAN BERNARDINO COUNTY, CALIFORNIA

EXHIBIT

2

APPENDIX B
SITE PHOTOGRAPHS

Phase I Environmental Site Assessment

Gateway South Building 4 ■ San Bernardino, California

Photos Taken: 11/29/2016 ■ Terracon Project No. 60167496



Photo 1 View of the west portion of the site to the north.



Photo 2 View of the east portion of the site to the north.



Photo 3 View of the central portion of the site to the east.



Photo 4 View of the west portion of the site to the south.



Photo 5 View of the central portion of the site to the west.



Photo 6 View of the solid waste disposal dumpster.

Phase I Environmental Site Assessment

Gateway South Building 4 ■ San Bernardino, California

Photos Taken: 11/29/2016 ■ Terracon Project No. 60167496



Photo 7 View of the grease trap west of the club house.



Photo 8 View of the western septic tank and leach field.



Photo 9 View of the propane AST.



Photo 10 View of the southern septic tank and leach field looking west.



Photo 11 View of a groundwater production well.



Photo 12 View of the pad mounted transformer on the east portion of the site.

Phase I Environmental Site Assessment

Gateway South Building 4 ■ San Bernardino, California

Photos Taken: 11/29/2016 ■ Terracon Project No. 60167496



Photo 13 Typical view of the surface water ponds



Photo 14 View of the club house to the west.



Photo 15 View of the cart wash area and sump looking south.



Photo 16 View of a typical kitchen floor drain.

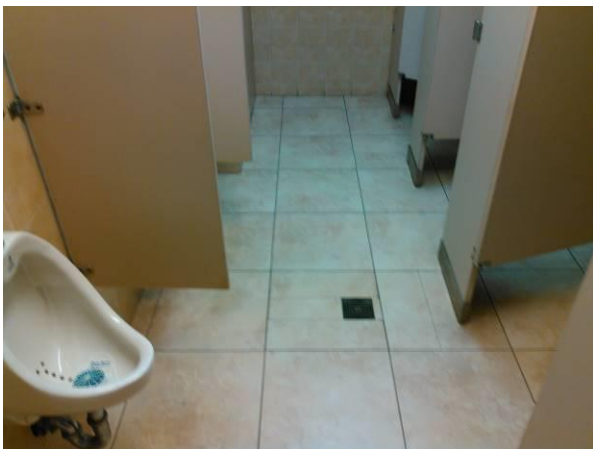


Photo 17 Typical view of a bathroom floor drain.



Photo 18 Typical view of the office.

Phase I Environmental Site Assessment

Gateway South Building 4 ■ San Bernardino, California

Photos Taken: 11/29/2016 ■ Terracon Project No. 60167496



Photo 19 View of the north-adjacent driving range..



Photo 20 View of the north-adjacent parking lot.



Photo 21 View of the north-adjacent vacant land.



Photo 22 View of the east-adjacent Waterman Avenue and Inland Regional Center (1365 S Waterman Ave.).



Photo 23 View of the east-adjacent Sepulveda Building Materials (1485 S Waterman Ave.) and Structural Materials Company (1515 S. Waterman Ave.).



Photo 24 View of the south-adjacent flood control access road and the Santa Ana River.

Phase I Environmental Site Assessment

Gateway South Building 4 ■ San Bernardino, California

Photos Taken: 11/29/2016 ■ Terracon Project No. 60167496




Photo 25 View of the west-adjointing flood control canal and San Bernardino Water Reclamation Plant (399 Chandler Place) to the southwest.



Photo 26 View of the west-adjointing flood control canal and San Bernardino Water Reclamation Plant to the northwest.

APPENDIX C
HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE



Gateway South Building 4
1494 South Waterman Avenue
San Bernardino, CA 92408

Inquiry Number: 4796773.9

December 06, 2016

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

12/06/16

Site Name:

Gateway South Building 4
1494 South Waterman Avenue
San Bernardino, CA 92408
EDR Inquiry # 4796773.9

Client Name:

Terracon
1421 Edinger Avenue
Tustin, CA 92780
Contact: David Jamison



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: July 28, 1985	USDA
1975	1"=500'	Flight Date: August 01, 1975	USGS
1968	1"=500'	Flight Date: August 21, 1968	USDA
1966	1"=500'	Flight Date: April 16, 1966	USGS
1959	1"=500'	Flight Date: October 15, 1959	USDA
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1938	1"=500'	Flight Date: July 04, 1938	USDA

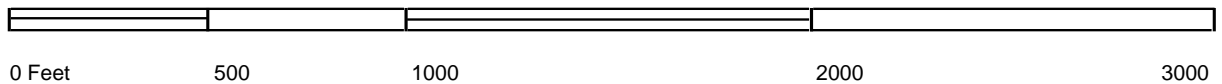
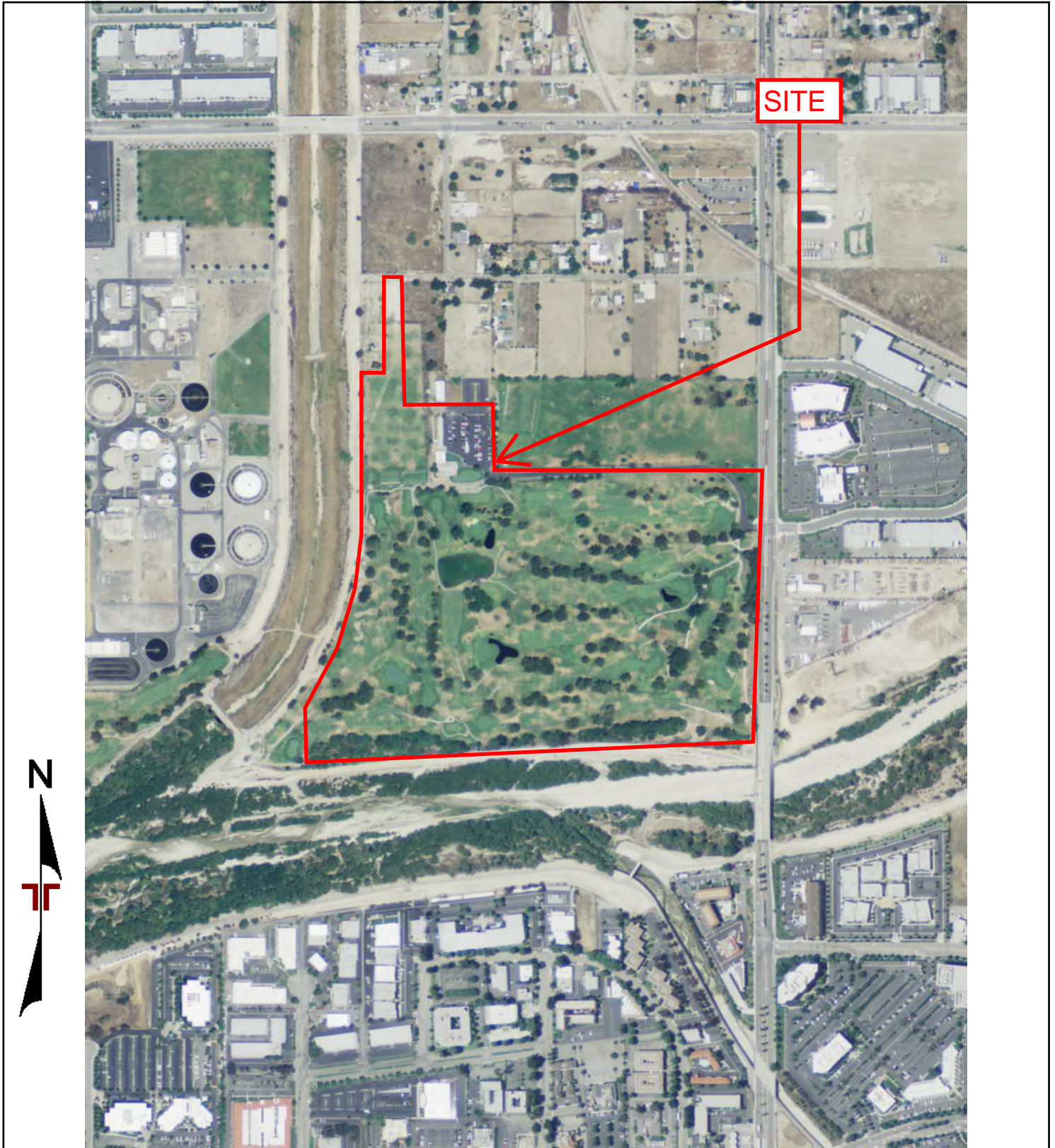
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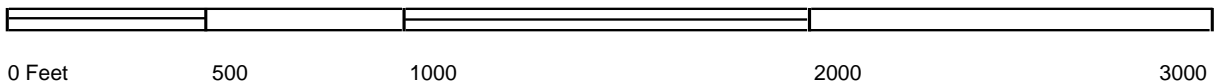


Project Manager:	DJ
Drawn by:	DJ
Checked by:	CAP
Approved by:	CAP
Project No.:	60167496
Scale:	As Shown
File Name:	
Date:	2012

1421 Edinger Avenue
 Tustin, CA 92780

2012 AERIAL PHOTOGRAPH
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino San Bernardino County CA

Appendix
C



Project Manager:	DJ
Drawn by:	DJ
Checked by:	CAP
Approved by:	CAP

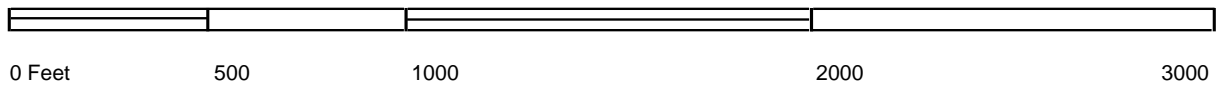
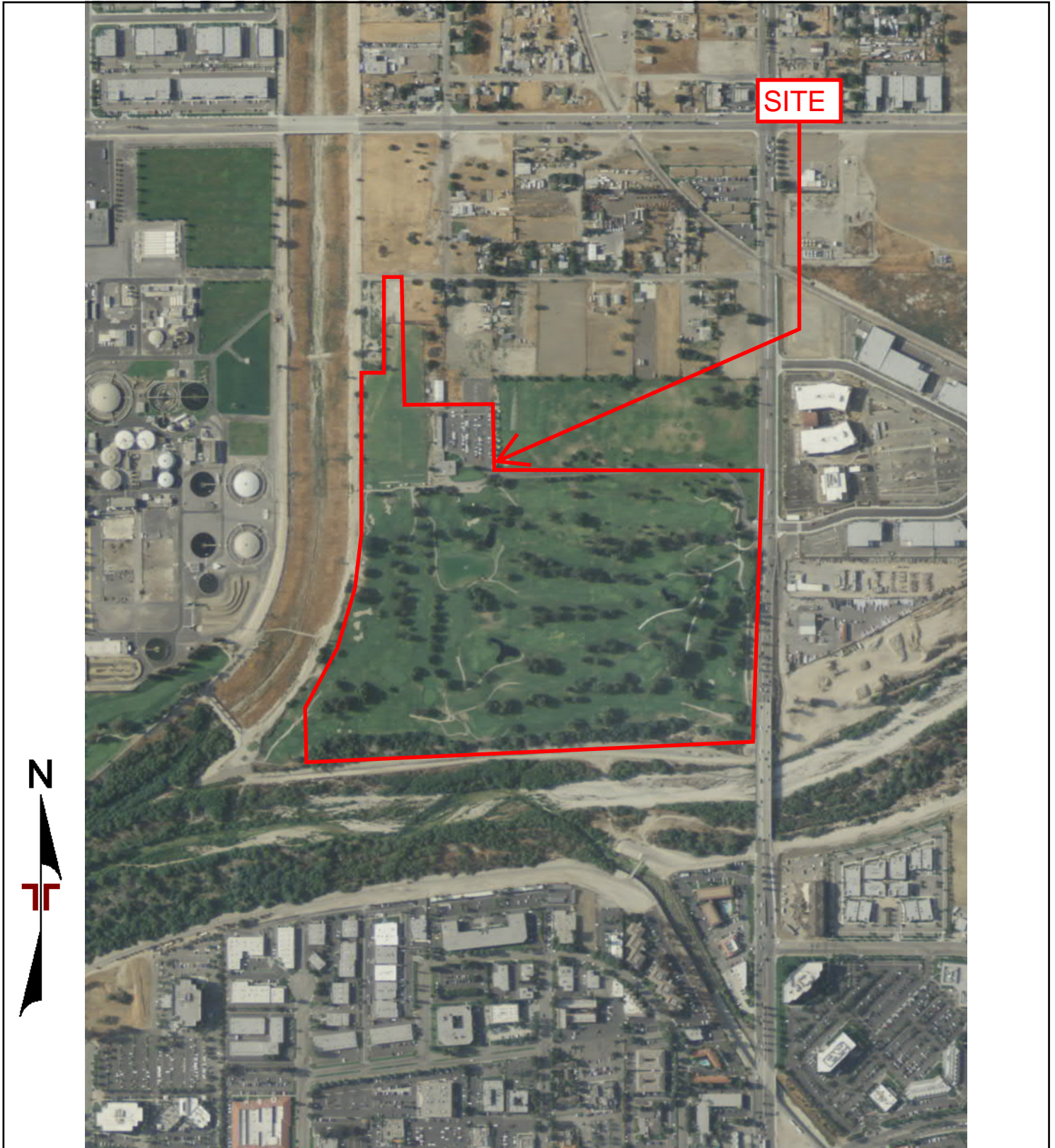
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1421 Edinger Avenue
Tustin, CA 92780

2010 AERIAL PHOTOGRAPH
Gateway South Building 4
1494 South Waterman Avenue
San Bernardino San Bernardino County CA

Appendix
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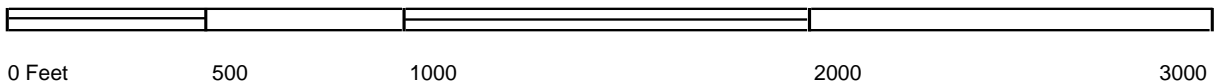
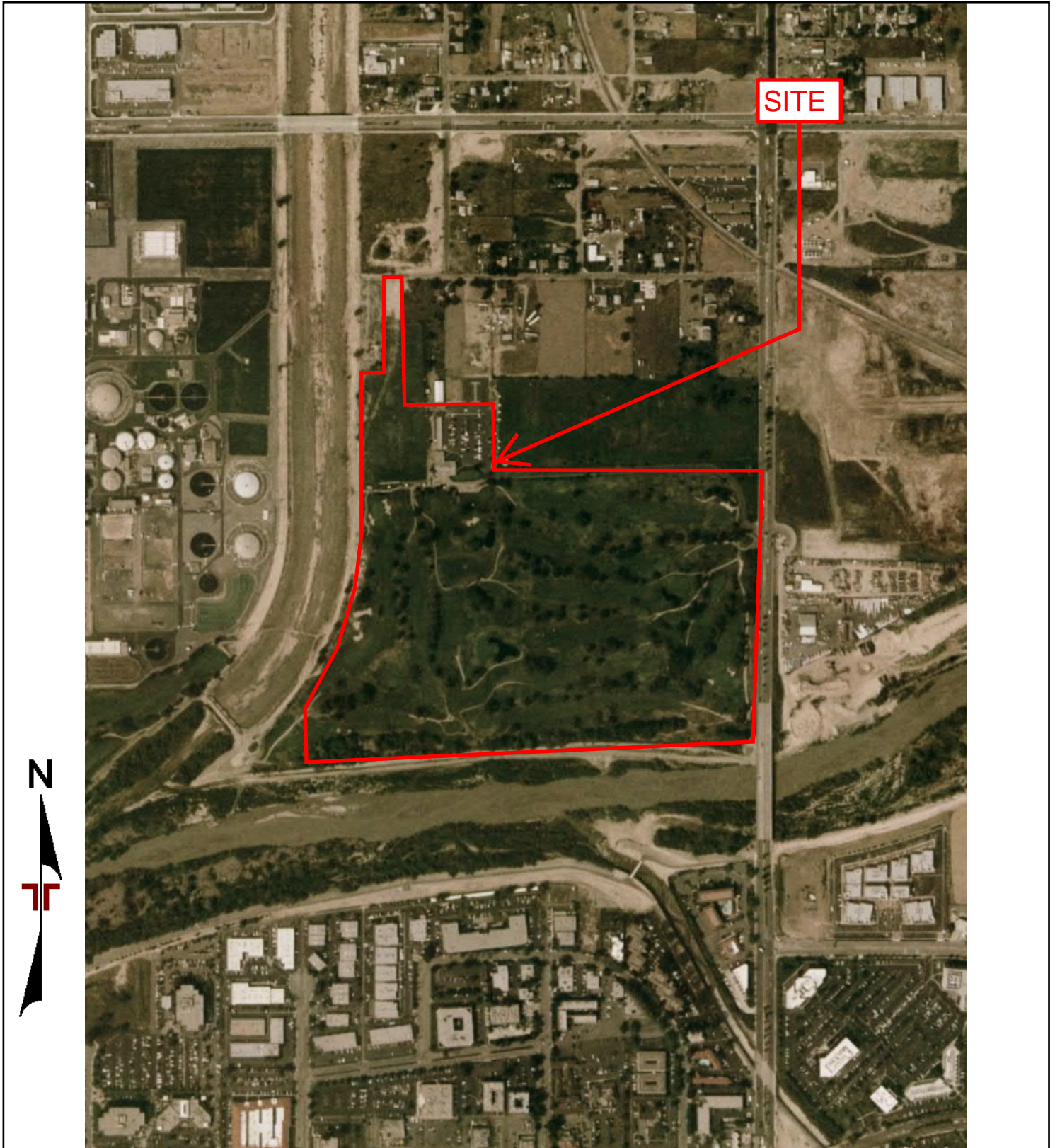


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Drawn by:	DJ
Checked by:	CAP
Approved by:	CAP
Project No.:	60167496
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File Name:	
Date:	2009


 1421 Edinger Avenue
 Tustin, CA 92780

2009 AERIAL PHOTOGRAPH
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino San Bernardino County CA

Appendix
C



Project Manager:	DJ
Drawn by:	DJ
Checked by:	CAP
Approved by:	CAP

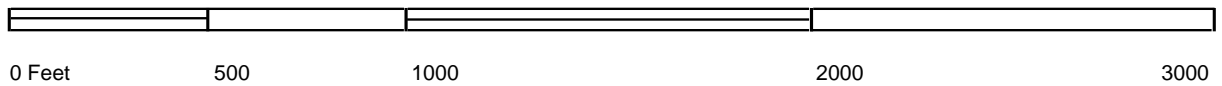
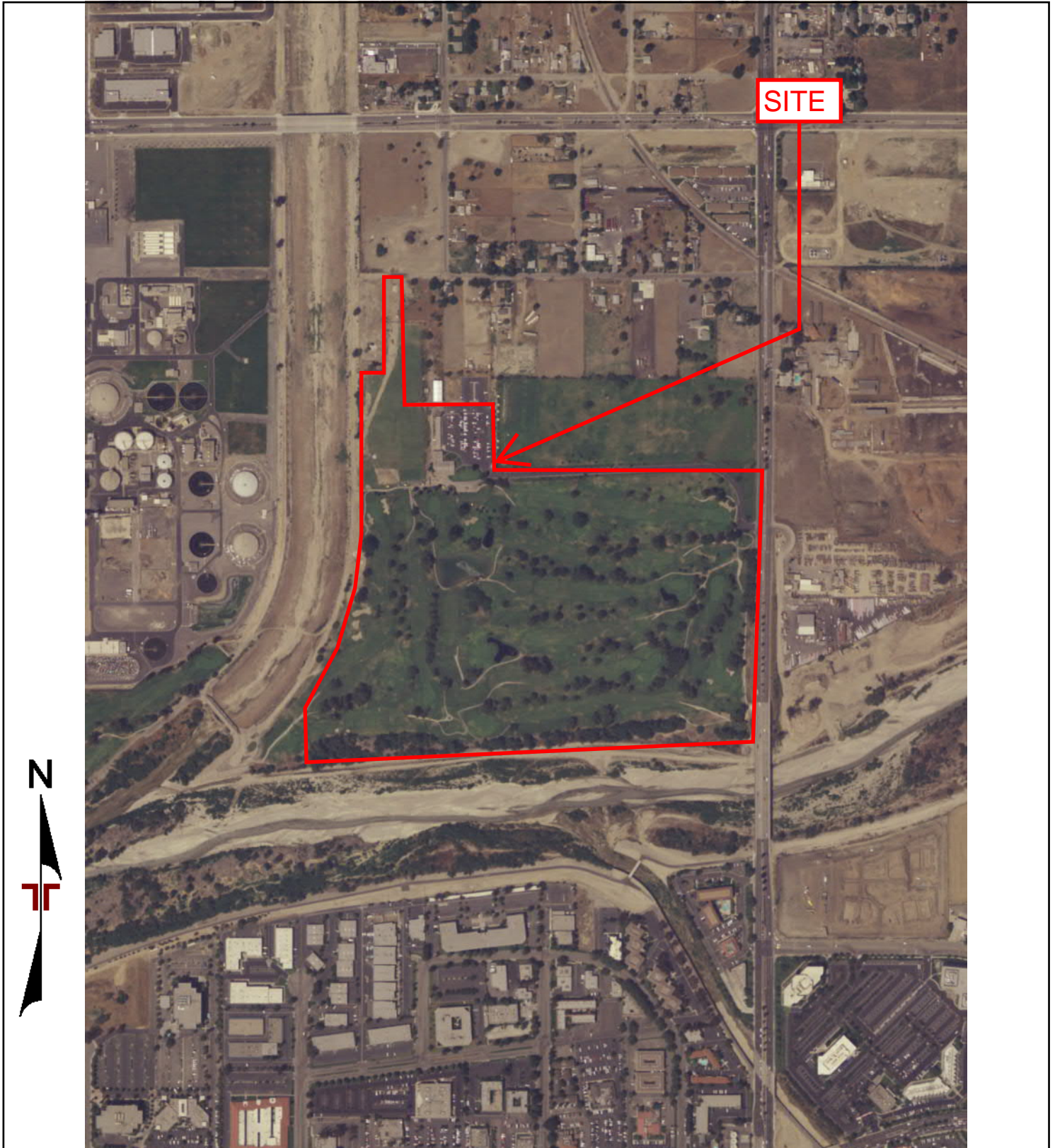
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1421 Edinger Avenue
Tustin, CA 92780

2006 AERIAL PHOTOGRAPH
Gateway South Building 4 1494 South Waterman Avenue San Bernardino San Bernardino County CA

Appendix
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Project Manager:	DJ
Drawn by:	DJ
Checked by:	CAP
Approved by:	CAP

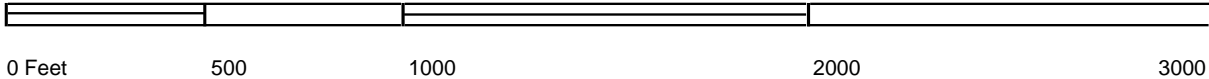
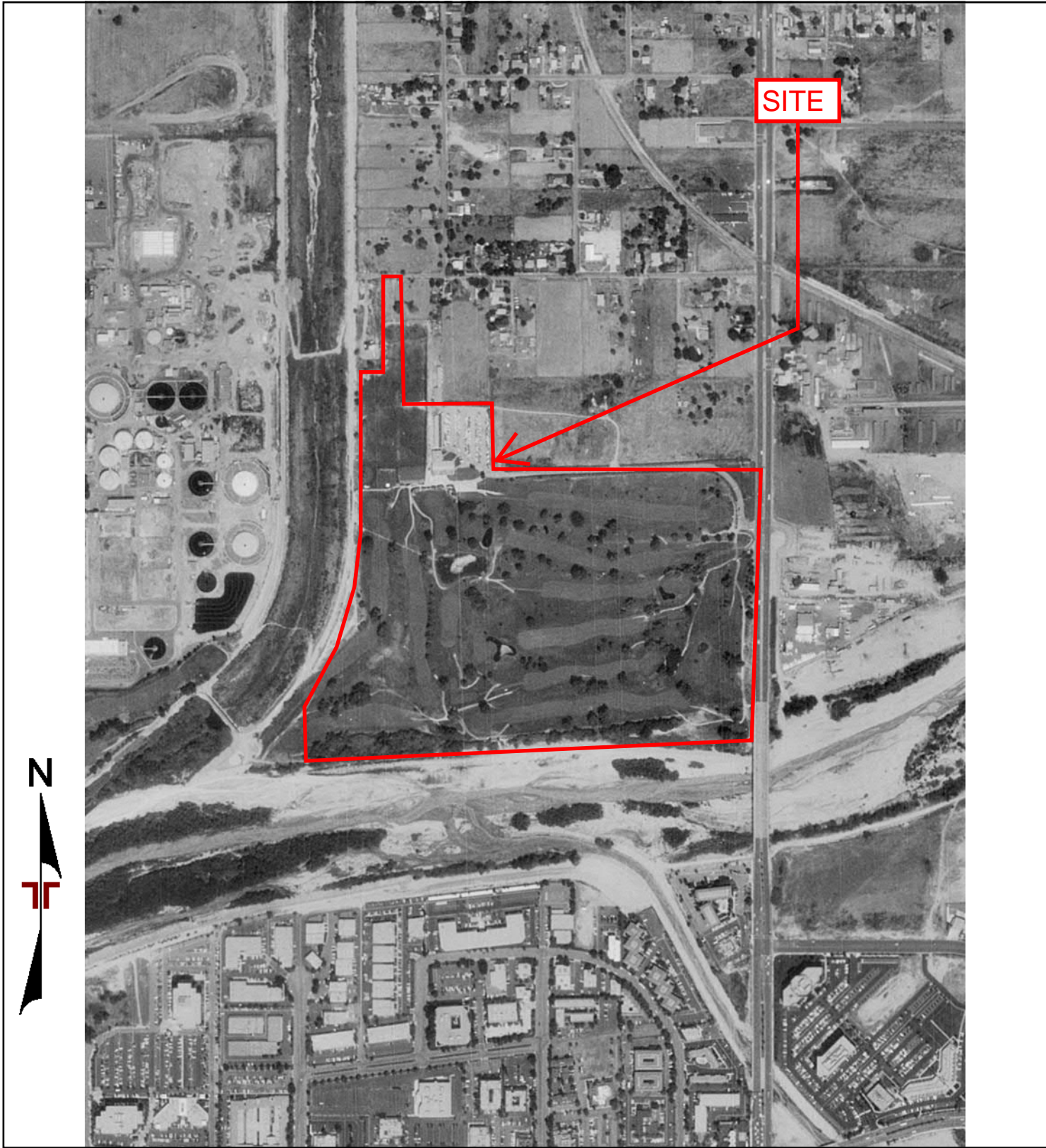
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1421 Edinger Avenue
Tustin, CA 92780

2005 AERIAL PHOTOGRAPH
Gateway South Building 4 1494 South Waterman Avenue San Bernardino San Bernardino County CA

Appendix
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Project Manager:	DJ
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Checked by:	CAP
Approved by:	CAP

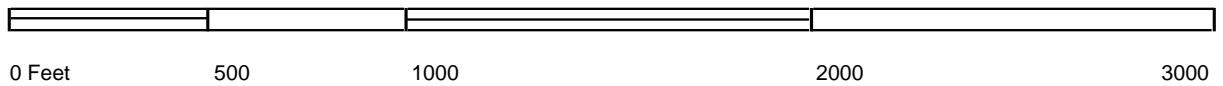
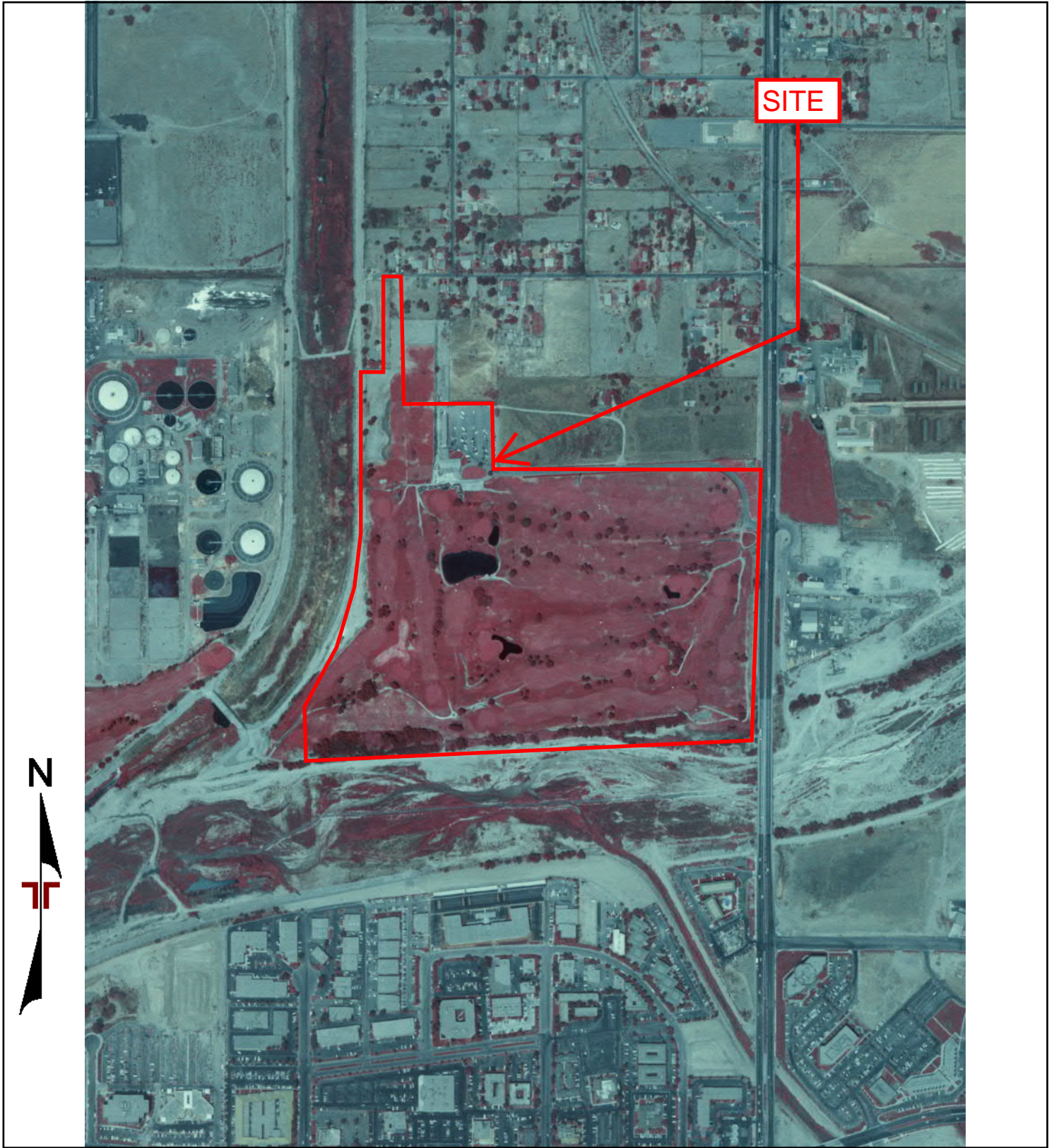
Project No.	60167496
Scale:	As Shown
File Name:	
Date:	1994



1421 Edinger Avenue
Tustin, CA 92780

1994 AERIAL PHOTOGRAPH
Gateway South Building 4
1494 South Waterman Avenue
San Bernardino San Bernardino County CA

Appendix
C



Project Manager:	DJ
Drawn by:	DJ
Checked by:	CAP
Approved by:	CAP

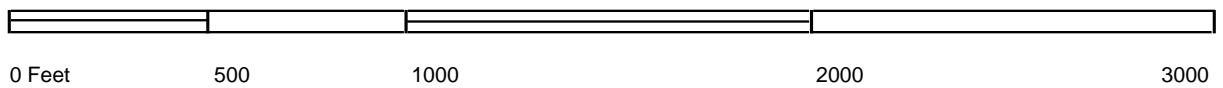
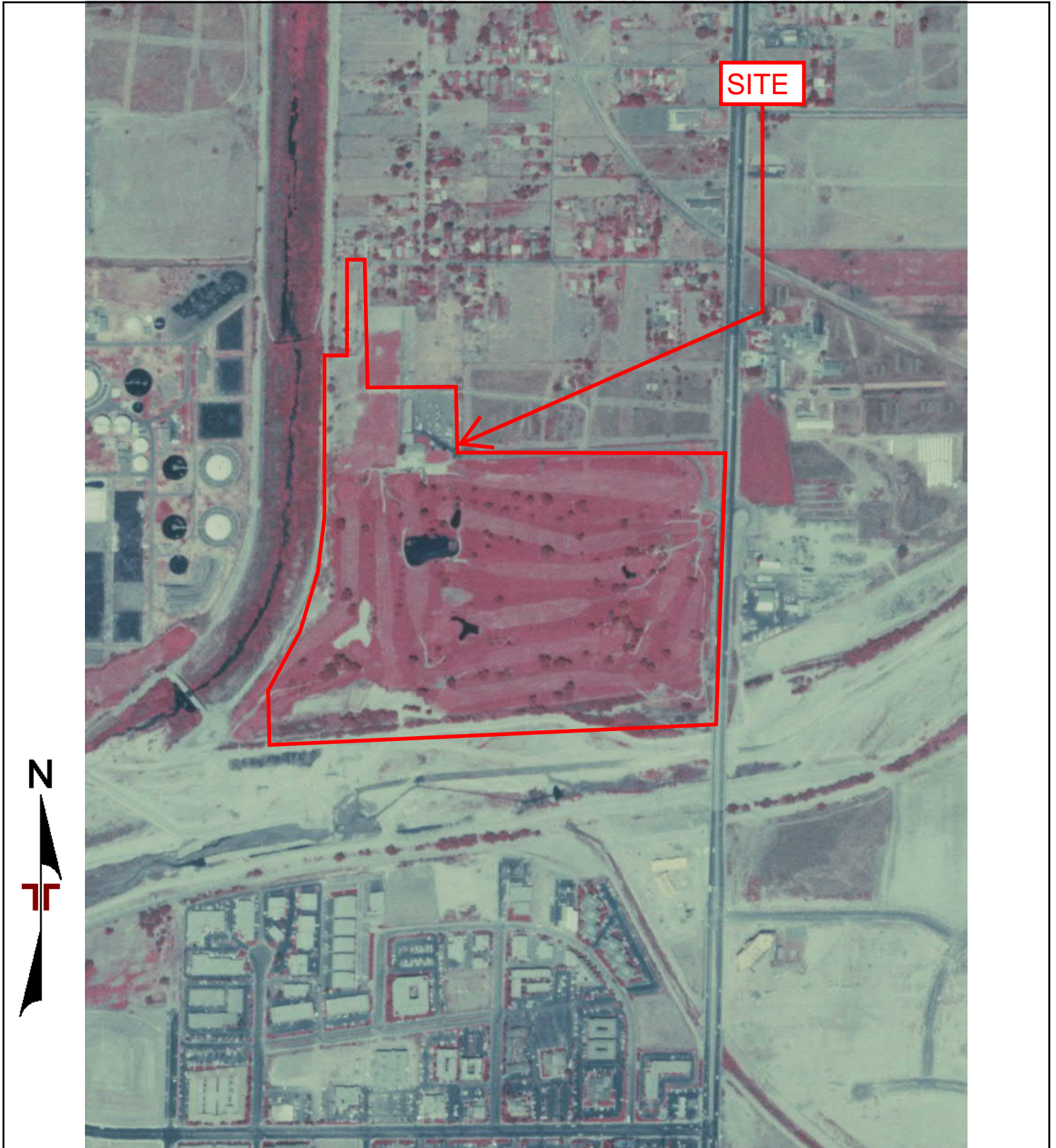
Project No.	60167496
Scale:	As Shown
File Name:	
Date:	1989



1421 Edinger Avenue
Tustin, CA 92780

1989 AERIAL PHOTOGRAPH
Gateway South Building 4 1494 South Waterman Avenue San Bernardino San Bernardino County CA

Appendix
C



Project Manager:	DJ
Drawn by:	DJ
Checked by:	CAP
Approved by:	CAP

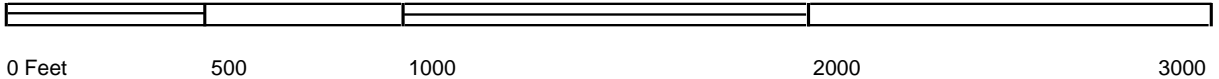
Project No.	60167496
Scale:	As Shown
File Name:	
Date:	1985



1421 Edinger Avenue
Tustin, CA 92780

1985 AERIAL PHOTOGRAPH
Gateway South Building 4
1494 South Waterman Avenue
San Bernardino San Bernardino County CA

Appendix
C



Project Manager:	DJ
Drawn by:	DJ
Checked by:	CAP
Approved by:	CAP

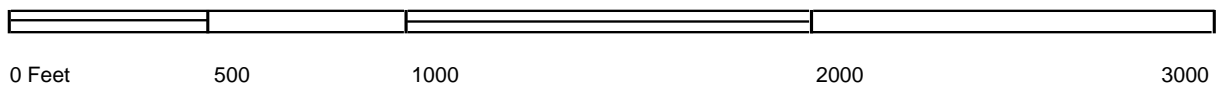
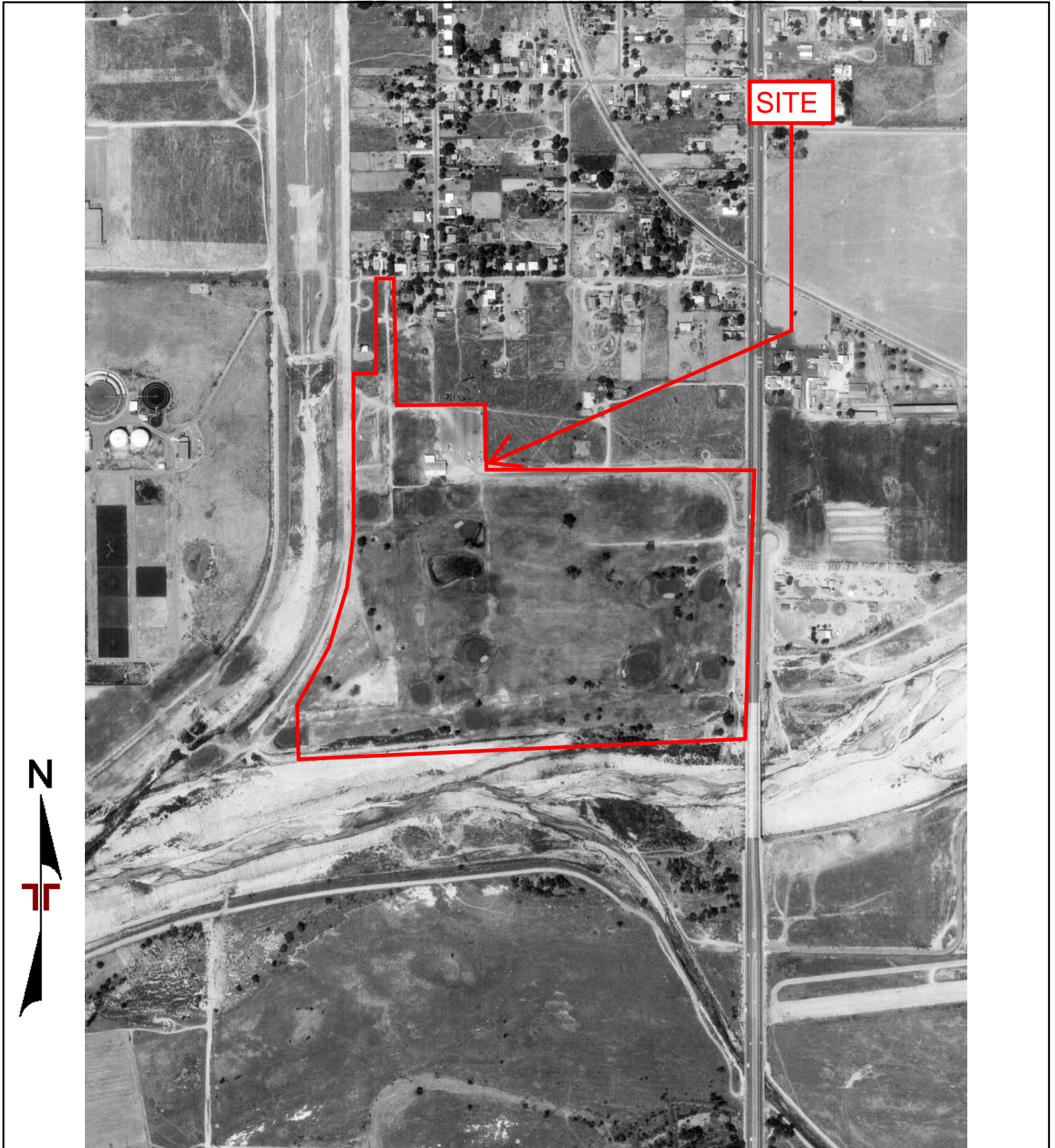
Project No.	60167496
Scale:	As Shown
File Name:	
Date:	1975



1421 Edinger Avenue
Tustin, CA 92780

1975 AERIAL PHOTOGRAPH
Gateway South Building 4 1494 South Waterman Avenue San Bernardino San Bernardino County CA

Appendix
C



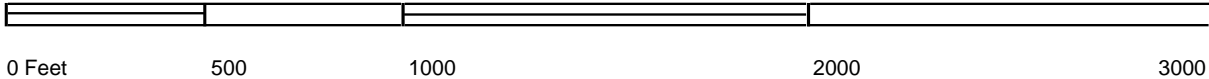
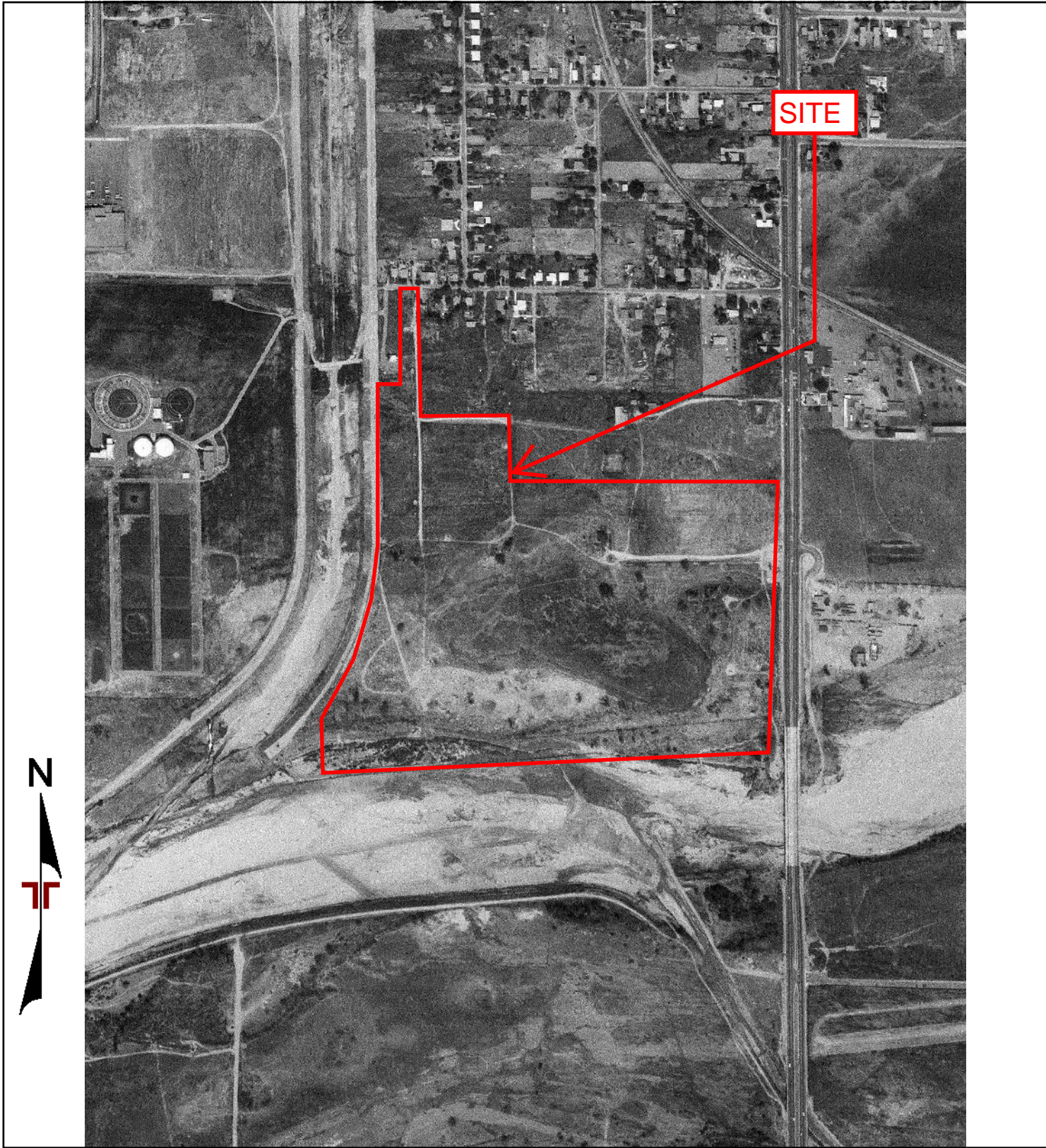
Project Manager:	DJ
Drawn by:	DJ
Checked by:	CAP
Approved by:	CAP

Project No.	60167496
Scale:	As Shown
File Name:	
Date:	1968

Terracon
 1421 Edinger Avenue
 Tustin, CA 92780

1968 AERIAL PHOTOGRAPH
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino San Bernardino County CA

Appendix
C



Project Manager:	DJ
Drawn by:	DJ
Checked by:	CAP
Approved by:	CAP

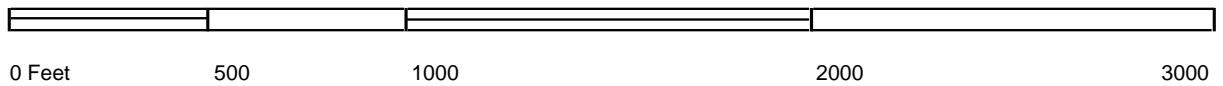
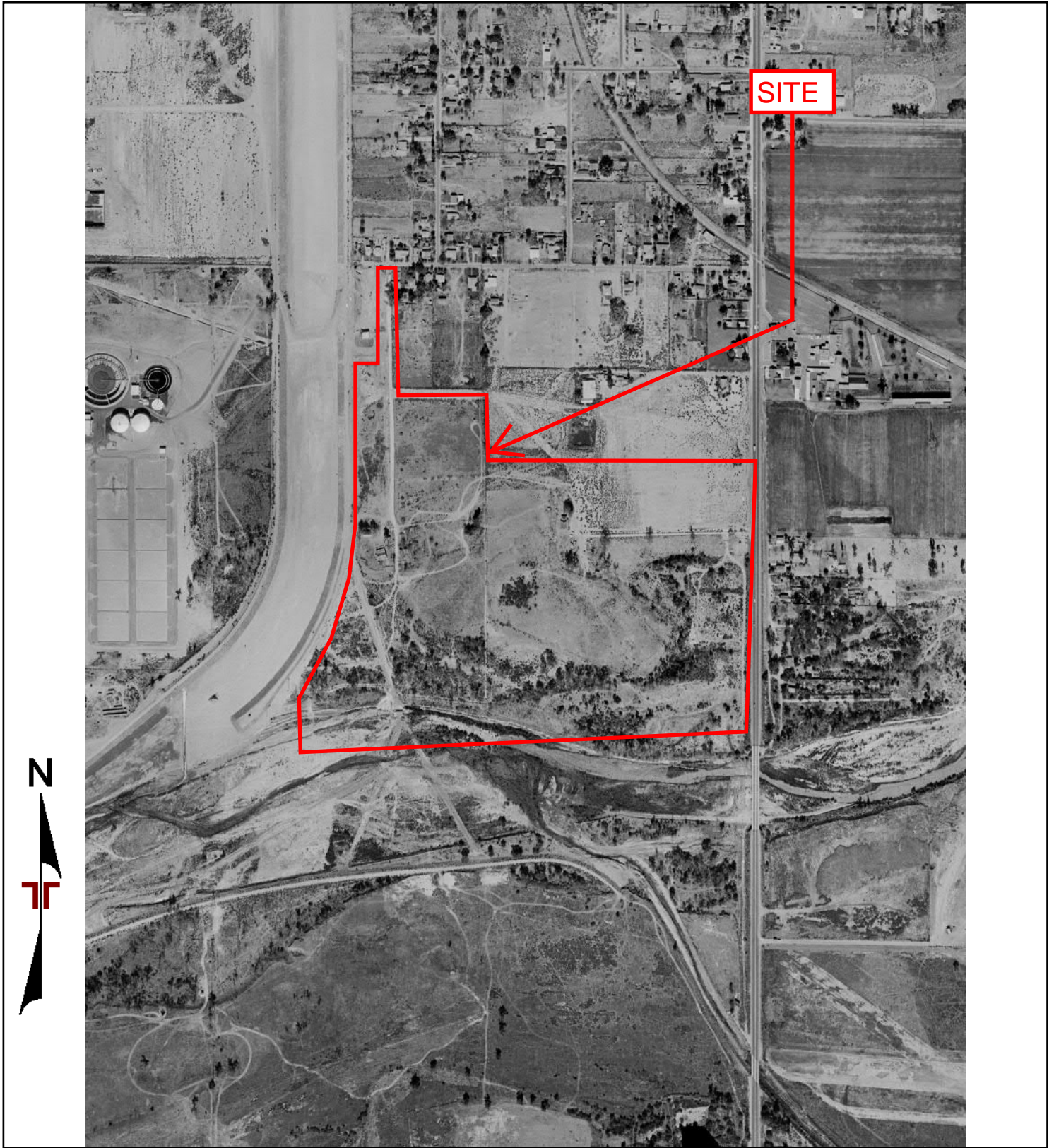
Project No.	60167496
Scale:	As Shown
File Name:	
Date:	1966



1421 Edinger Avenue
Tustin, CA 92780

1966 AERIAL PHOTOGRAPH
Gateway South Building 4
1494 South Waterman Avenue
San Bernardino San Bernardino County CA

Appendix
C

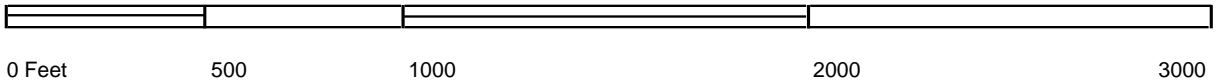
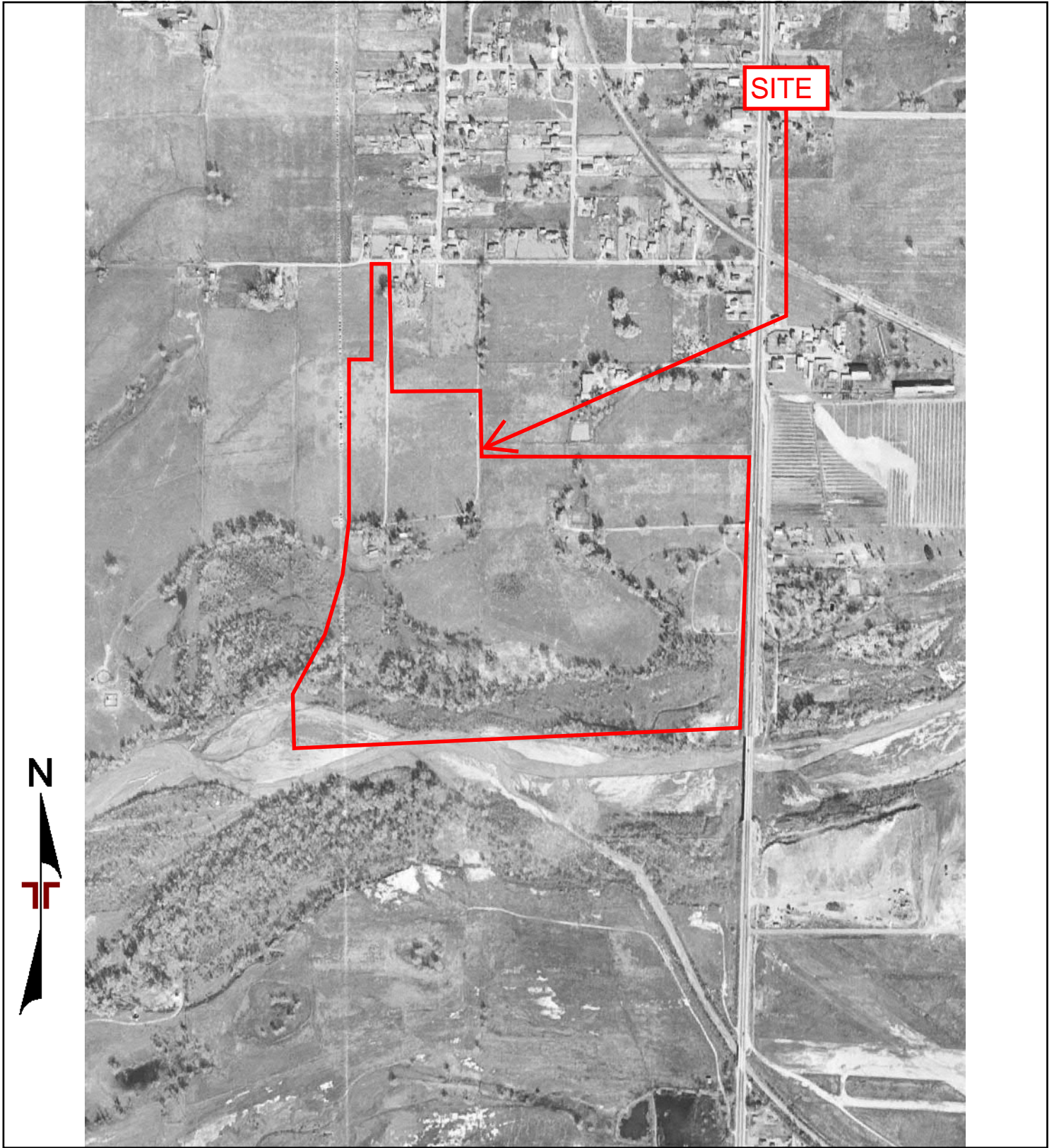


Project Manager:	Project No.
DJ	60167496
Drawn by:	Scale:
DJ	As Shown
Checked by:	File Name:
CAP	
Approved by:	Date:
CAP	1959

1421 Edinger Avenue
 Tustin, CA 92780

1959 AERIAL PHOTOGRAPH
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino San Bernardino County CA

Appendix
C



Project Manager:	DJ
Drawn by:	DJ
Checked by:	CAP
Approved by:	CAP

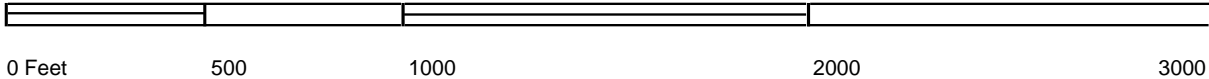
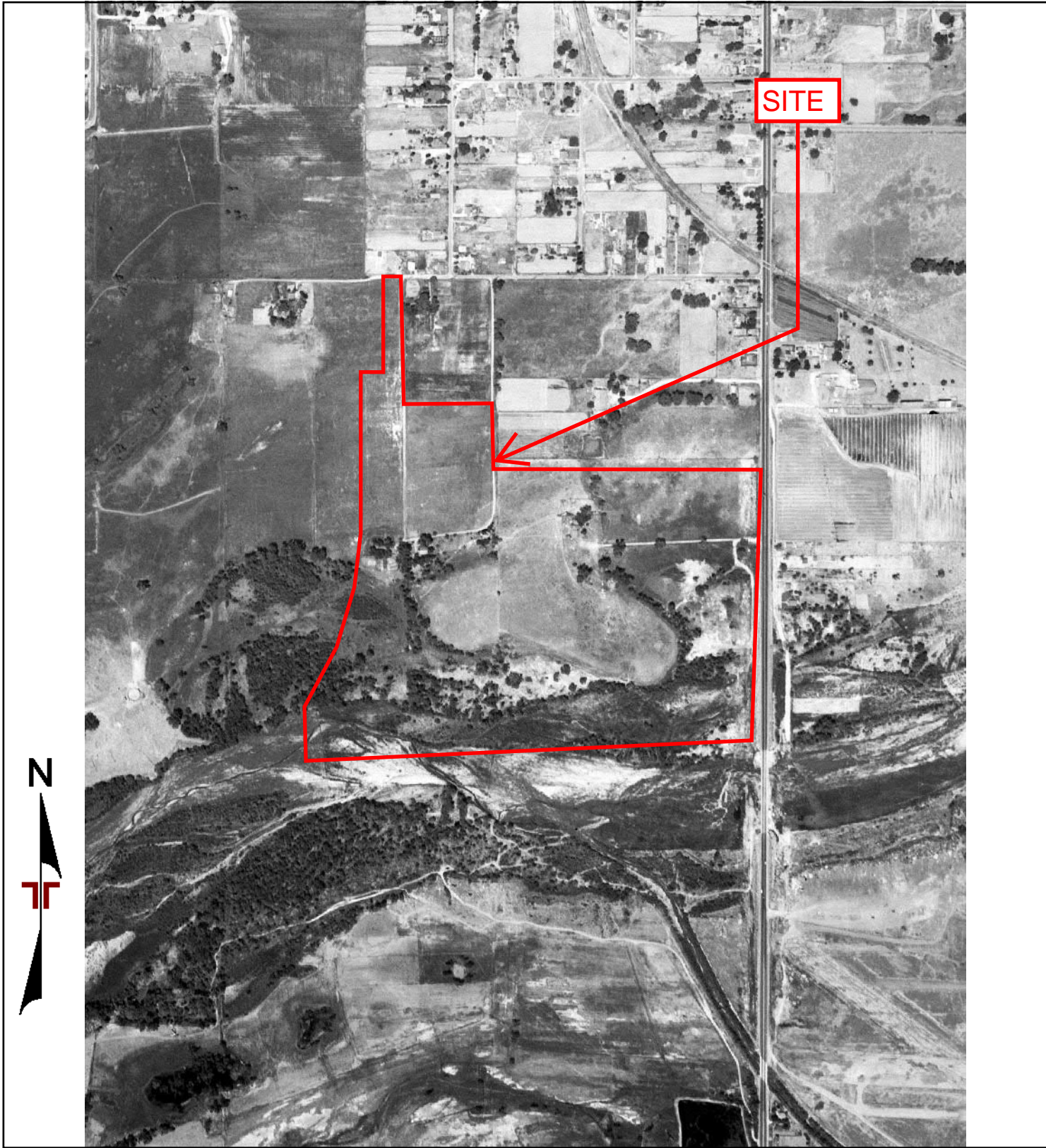
Project No.	60167496
Scale:	As Shown
File Name:	
Date:	1953



1421 Edinger Avenue
Tustin, CA 92780

1953 AERIAL PHOTOGRAPH
Gateway South Building 4
1494 South Waterman Avenue
San Bernardino San Bernardino County CA

Appendix
C



Project Manager:	DJ
Drawn by:	DJ
Checked by:	CAP
Approved by:	CAP

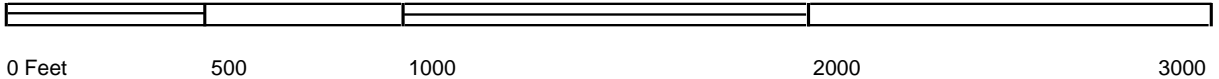
Project No.	60167496
Scale:	As Shown
File Name:	
Date:	1949



1421 Edinger Avenue
Tustin, CA 92780

1949 AERIAL PHOTOGRAPH
Gateway South Building 4 1494 South Waterman Avenue San Bernardino San Bernardino County CA

Appendix
C




Project Manager:	DJ
Drawn by:	DJ
Checked by:	CAP
Approved by:	CAP

Project No.	60167496
Scale:	As Shown
File Name:	
Date:	1938

Terracon
 1421 Edinger Avenue
 Tustin, CA 92780

1938 AERIAL PHOTOGRAPH
Gateway South Building 4 1494 South Waterman Avenue San Bernardino San Bernardino County CA

Appendix
C



Gateway South Building 4
1494 South Waterman Avenue
San Bernardino, CA 92408

Inquiry Number: 4796773.4

December 05, 2016

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

12/05/16

Site Name:

Gateway South Building 4
1494 South Waterman Avenue
San Bernardino, CA 92408
EDR Inquiry # 4796773.4

Client Name:

Terracon
1421 Edinger Avenue
Tustin, CA 92780
Contact: David Jamison



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Terracon were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	NA	Latitude:	34.07367 34° 4' 25" North
Project:	60167496	Longitude:	-117.282413 -117° 16' 57" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	473942.27
		UTM Y Meters:	3770360.39
		Elevation:	1004.00' above sea level

Maps Provided:

2012	1898
1980	1896
1973	
1967	
1954	
1943	
1938	
1901	

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Topo Sheet Key

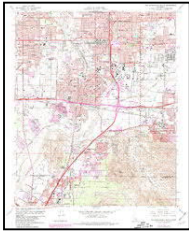
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



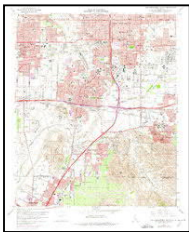
San Bernardino South
2012
7.5-minute, 24000

1980 Source Sheets



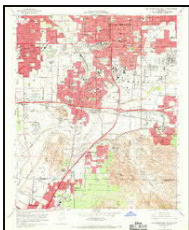
San Bernardino South
1980
7.5-minute, 24000
Photo Revised 1980
Aerial Photo Revised 1979

1973 Source Sheets



San Bernardino South
1973
7.5-minute, 24000
Photo Revised 1973
Aerial Photo Revised 1973

1967 Source Sheets

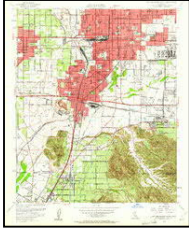


San Bernardino South
1967
7.5-minute, 24000
Aerial Photo Revised 1966

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1954 Source Sheets



San Bernardino South
1954
7.5-minute, 24000
Aerial Photo Revised 1952

1943 Source Sheets



Colton
1943
7.5-minute, 31680

1938 Source Sheets



Colton
1938
7.5-minute, 31680

1901 Source Sheets



San Bernardino
1901
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1898 Source Sheets

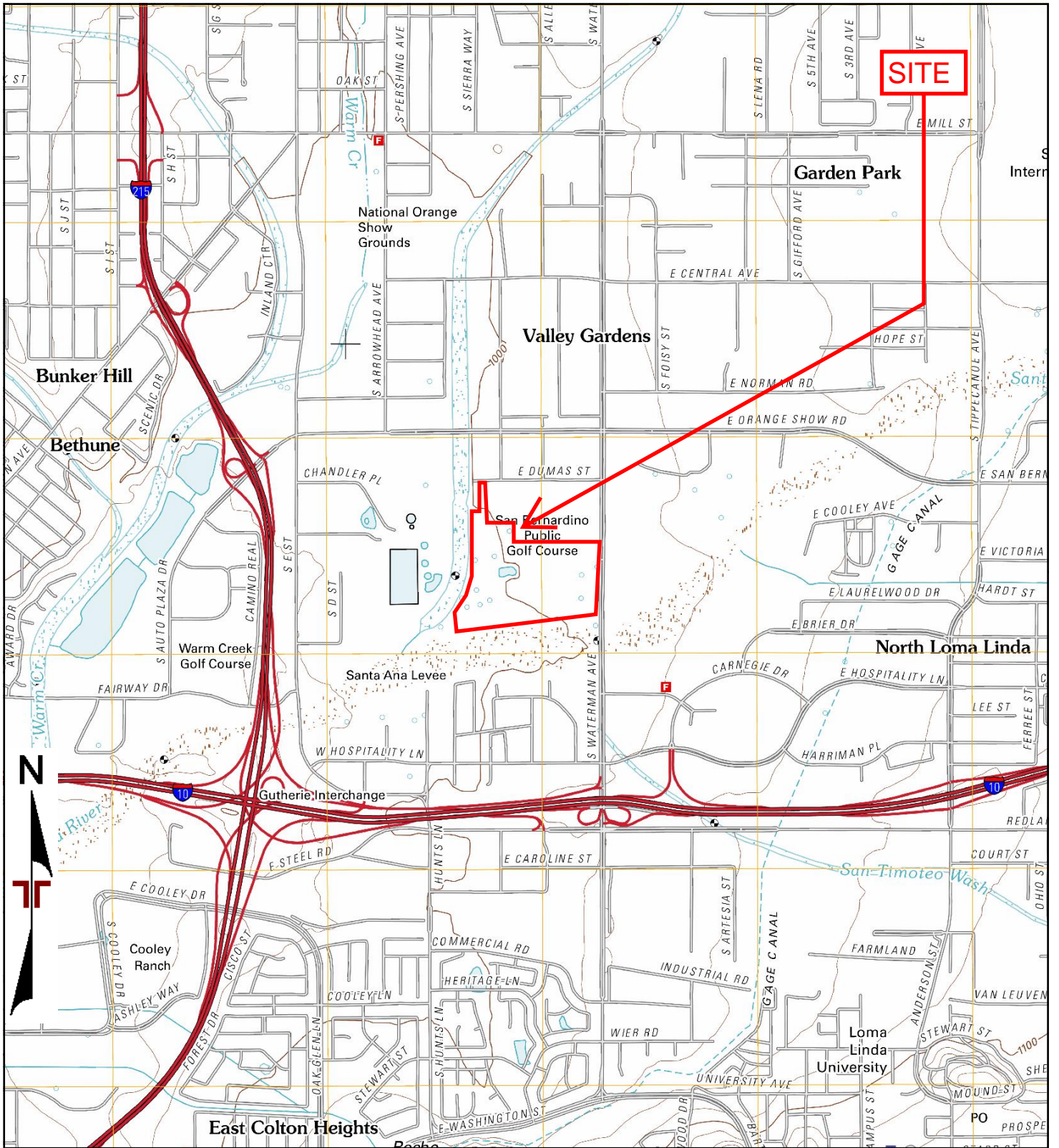


San Bernardino
1898
15-minute, 62500

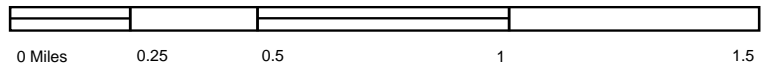
1896 Source Sheets



San Bernardino
1896
15-minute, 62500



TP, San Bernardino South, 2012, 7.5-minute

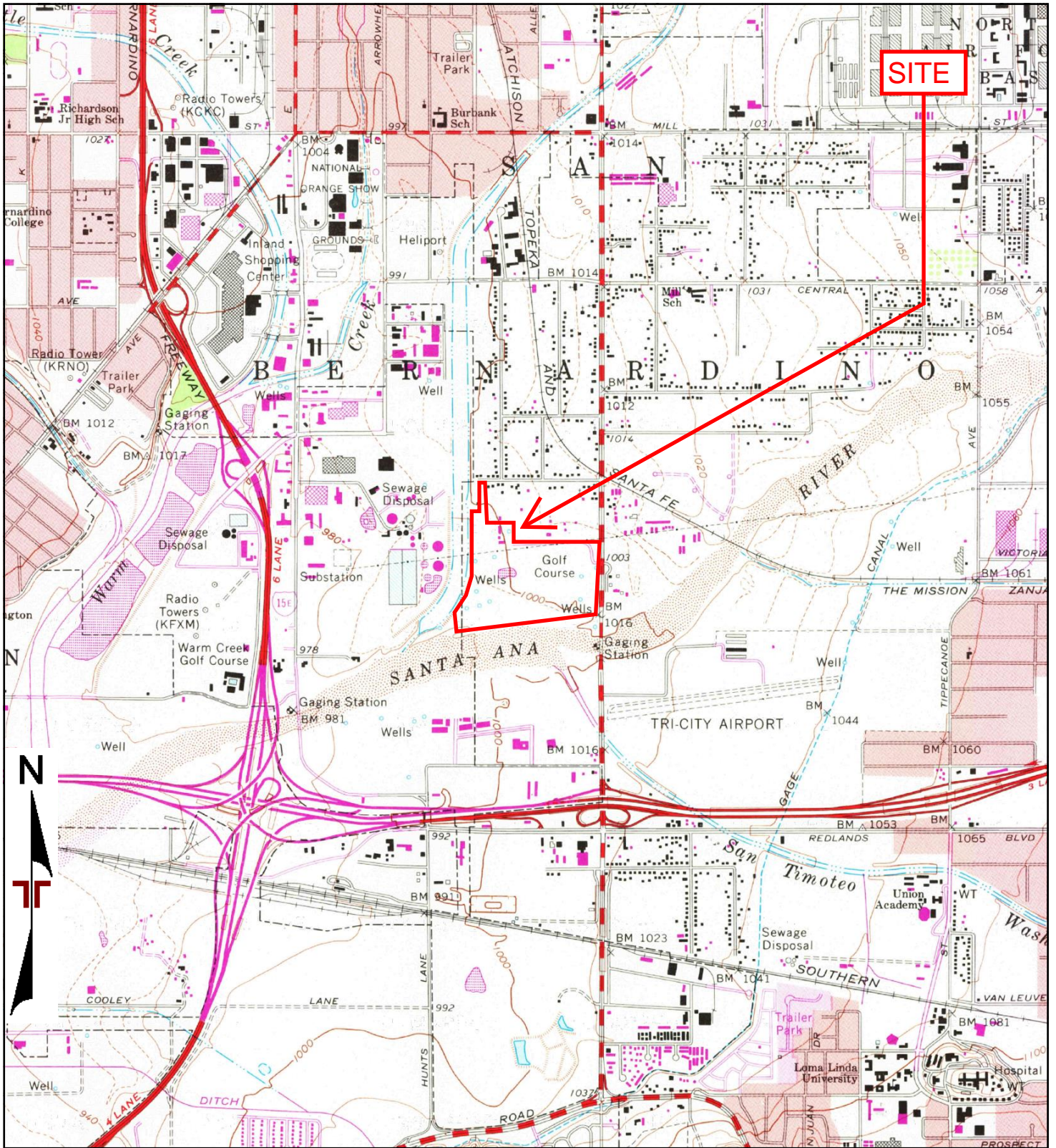


Project Manager:	DJ	Project No.	60167496
Drawn by:	DJ	Scale:	As Shown
Checked by:	CAP	File Name:	
Approved by:	CAP	Date:	2012

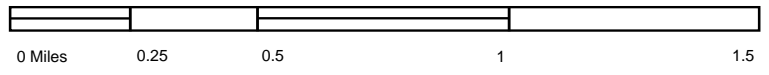
Terracon
 1421 Edinger Avenue
 Tustin, CA 92780

2012 TOPOGRAPHIC MAP
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino, San Bernardino County, California

Appendix
C



TP, San Bernardino South, 1980, 7.5-minute

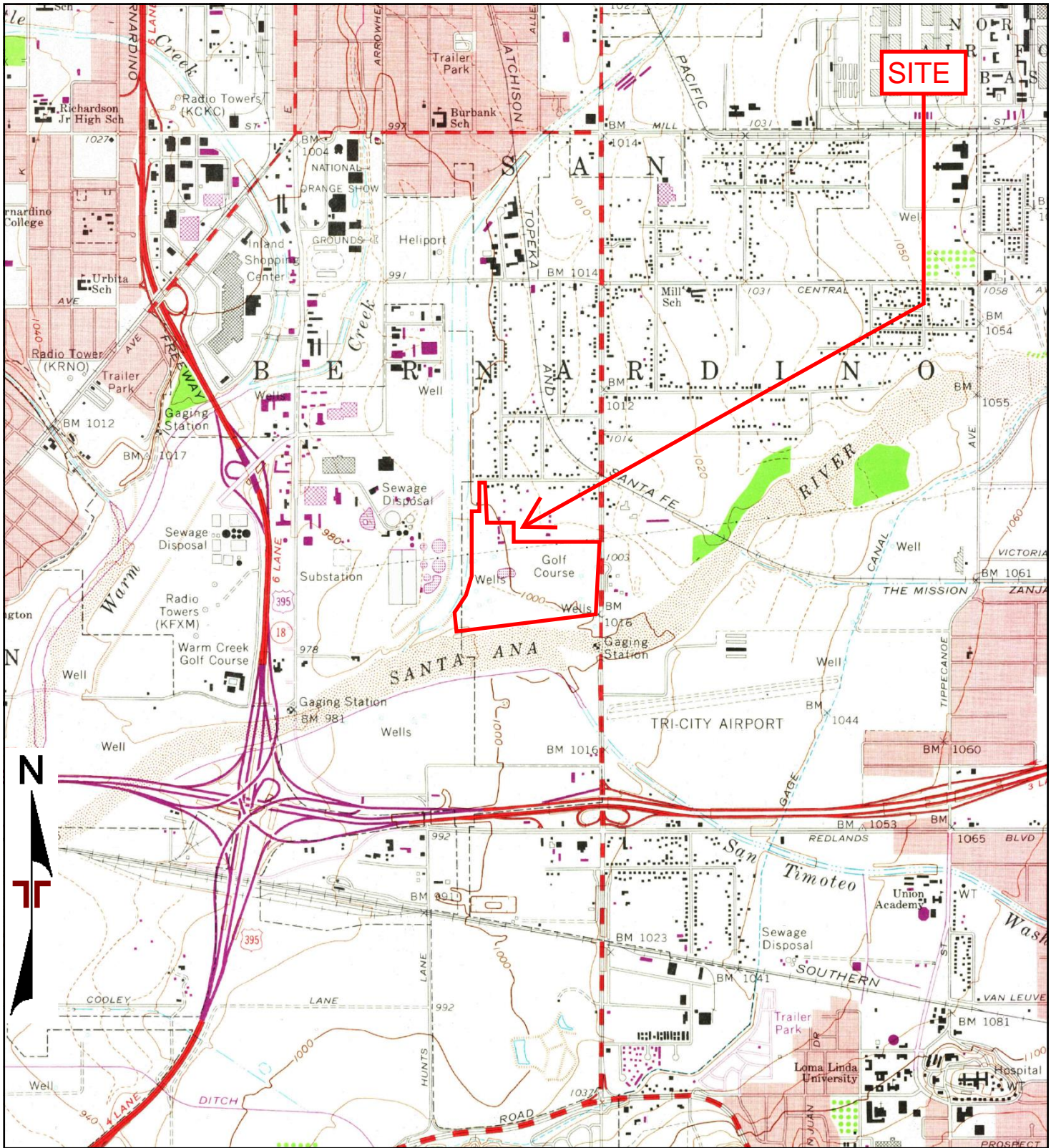


Project Manager:	DJ	Project No.	60167496
Drawn by:	DJ	Scale:	As Shown
Checked by:	CAP	File Name:	
Approved by:	CAP	Date:	1980

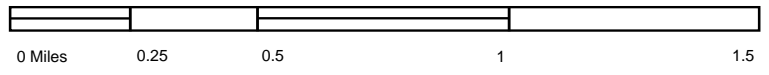
Terracon
 1421 Edinger Avenue
 Tustin, CA 92780

1980 TOPOGRAPHIC MAP
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino, San Bernardino County, California

Appendix
C



TP, San Bernardino South, 1973, 7.5-minute

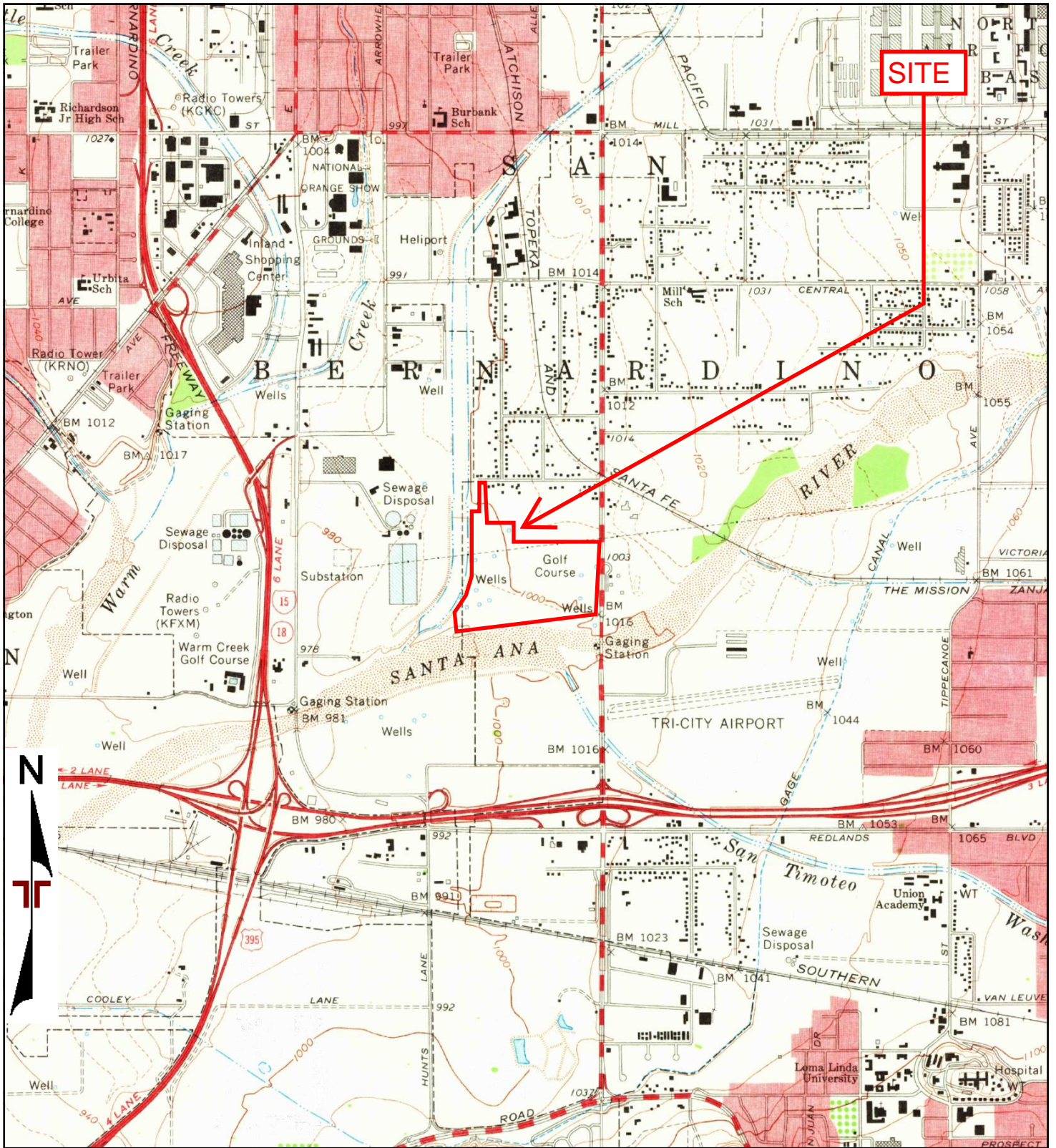


Project Manager:	DJ	Project No.	60167496
Drawn by:	DJ	Scale:	As Shown
Checked by:	CAP	File Name:	
Approved by:	CAP	Date:	1973

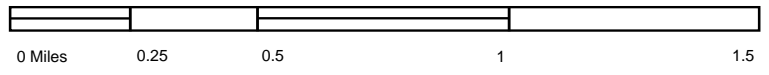
Terracon
 1421 Edinger Avenue
 Tustin, CA 92780

1973 TOPOGRAPHIC MAP
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino, San Bernardino County, California

Appendix
C



TP, San Bernardino South, 1967, 7.5-minute

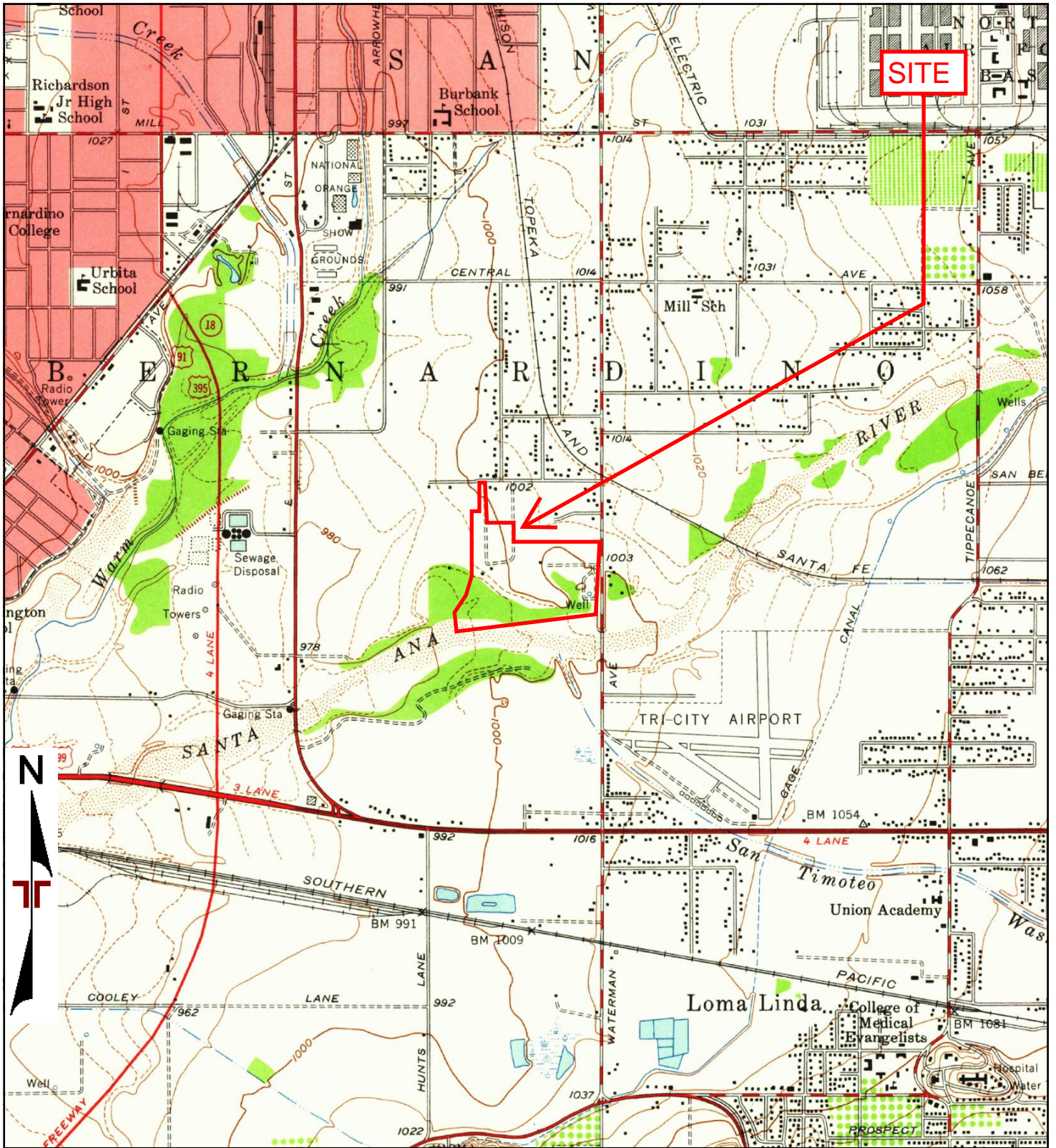


Project Manager:	DJ	Project No.	60167496
Drawn by:	DJ	Scale:	As Shown
Checked by:	CAP	File Name:	
Approved by:	CAP	Date:	1967

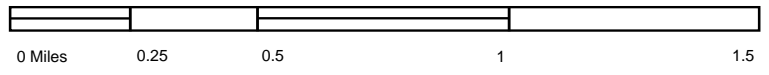
Terracon
 1421 Edinger Avenue
 Tustin, CA 92780

1967 TOPOGRAPHIC MAP
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino, San Bernardino County, California

Appendix
C



TP, San Bernardino South, 1954, 7.5-minute

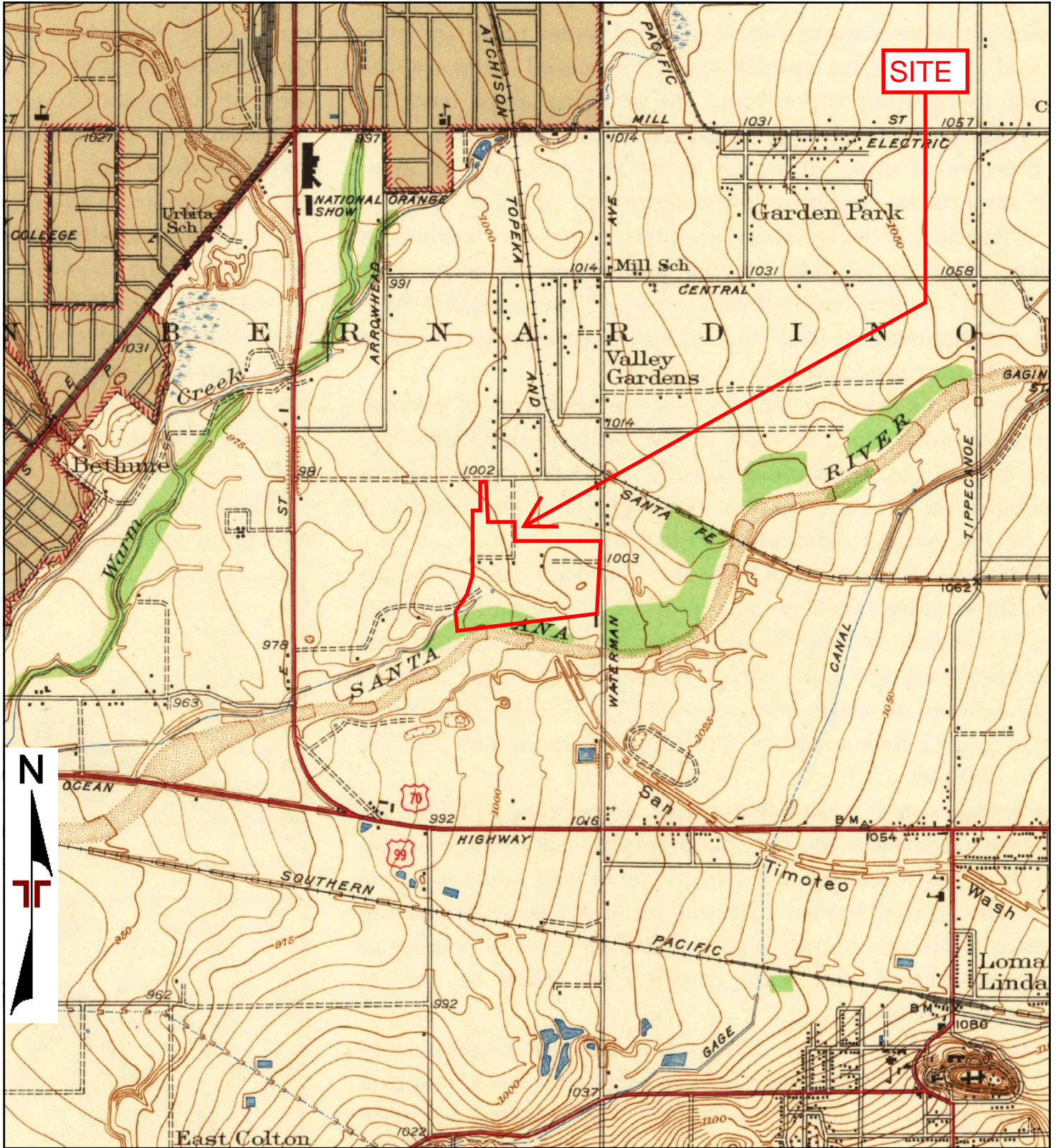


Project Manager:	DJ	Project No.	60167496
Drawn by:	DJ	Scale:	As Shown
Checked by:	CAP	File Name:	
Approved by:	CAP	Date:	1954

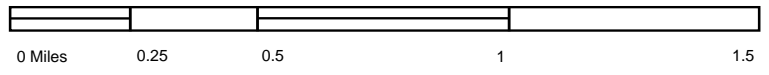
Terracon
 1421 Edinger Avenue
 Tustin, CA 92780

1954 TOPOGRAPHIC MAP
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino, San Bernardino County, California

Appendix
C



TP, Colton, 1943, 7.5-minute

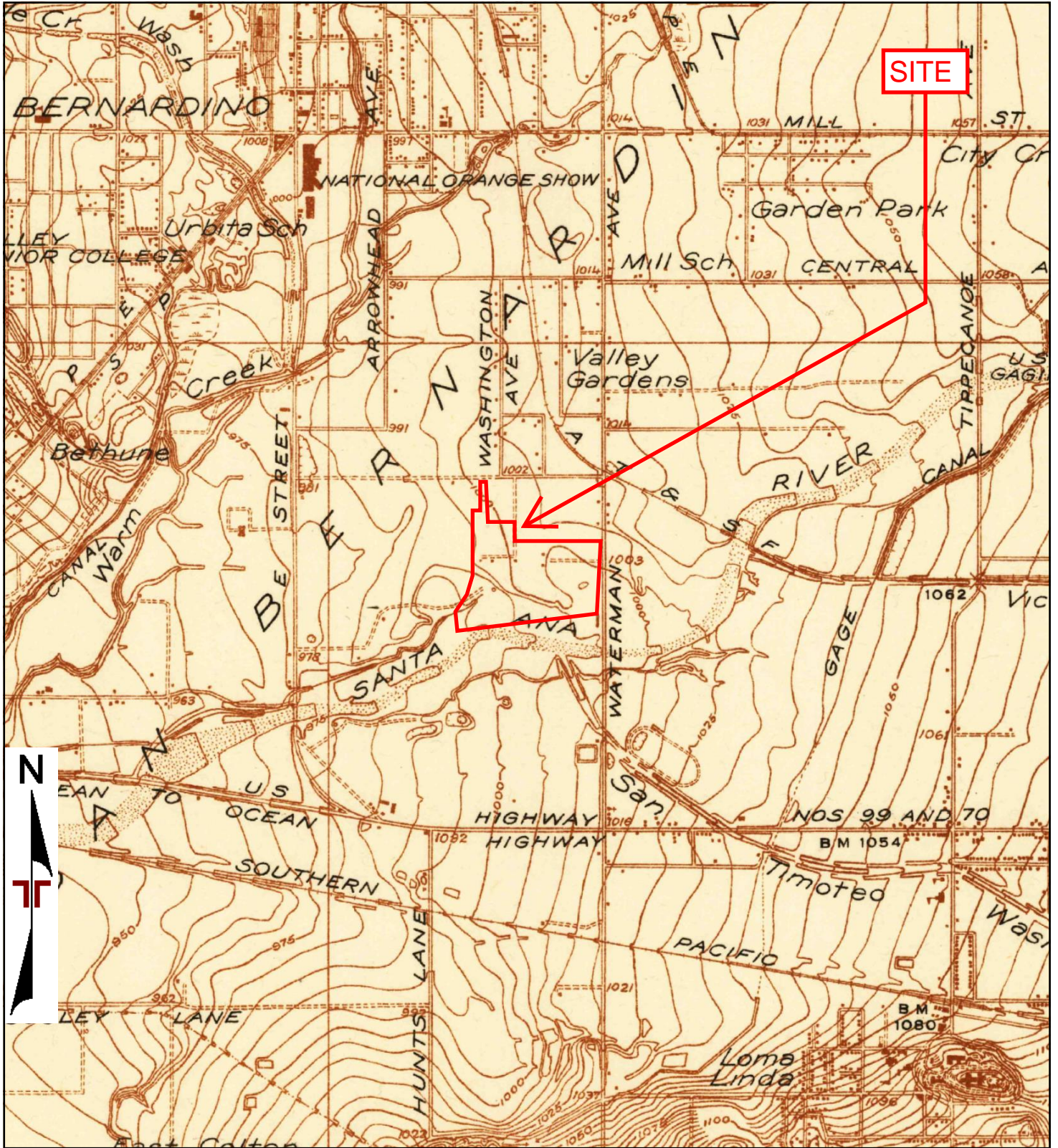


Project Manager:	Project No.
DJ	60167496
Drawn by:	Scale:
DJ	As Shown
Checked by:	File Name:
CAP	
Approved by:	Date:
CAP	1943

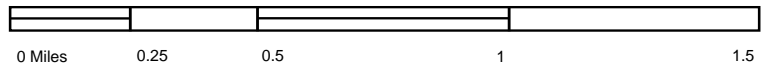
Terracon
 1421 Edinger Avenue
 Tustin, CA 92780

1943 TOPOGRAPHIC MAP
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino, San Bernardino County, California

Appendix
C



TP, Colton, 1938, 7.5-minute

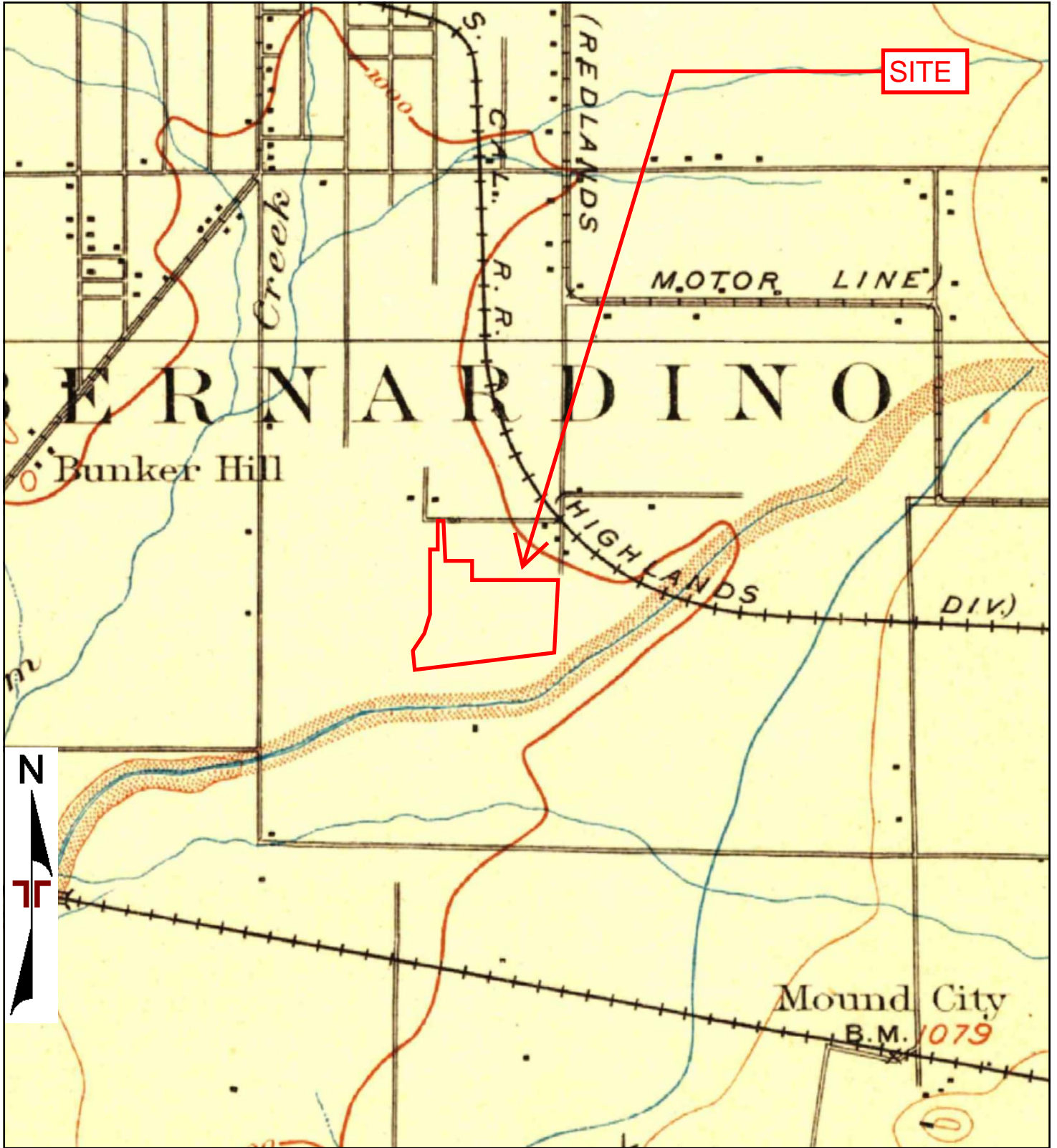


Project Manager:	Project No.
DJ	60167496
Drawn by:	Scale:
DJ	As Shown
Checked by:	File Name:
CAP	
Approved by:	Date:
CAP	1938

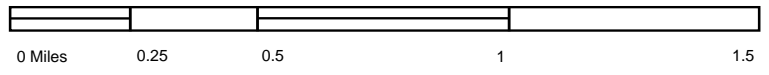
Terracon
 1421 Edinger Avenue
 Tustin, CA 92780

1938 TOPOGRAPHIC MAP
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino, San Bernardino County, California

Appendix
C



TP, San Bernardino, 1901, 15-minute

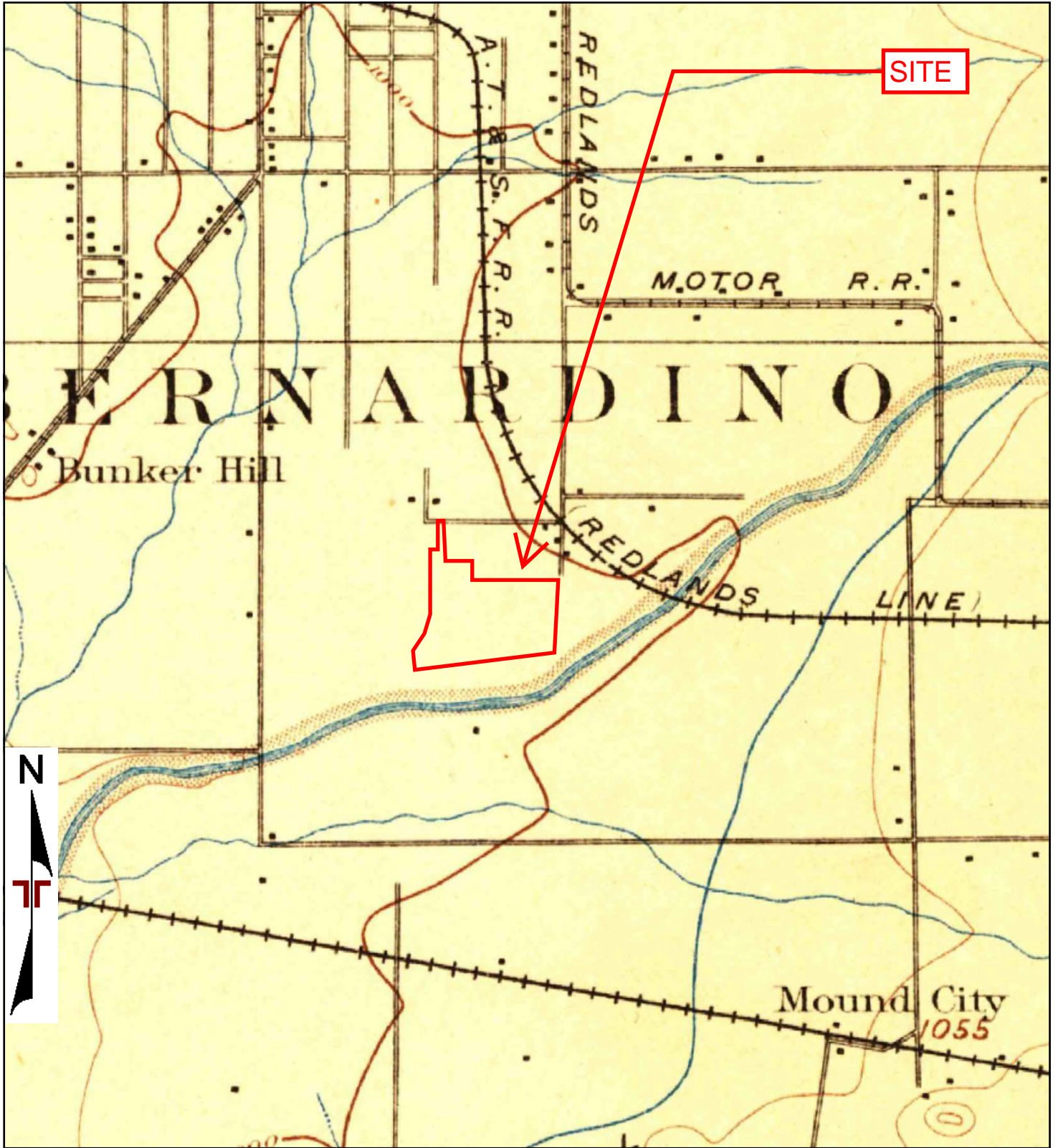


Project Manager:	DJ	Project No.	60167496
Drawn by:	DJ	Scale:	As Shown
Checked by:	CAP	File Name:	
Approved by:	CAP	Date:	1901

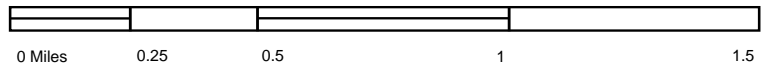
Terracon
 1421 Edinger Avenue
 Tustin, CA 92780

1901 TOPOGRAPHIC MAP
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino, San Bernardino County, California

Appendix
C



TP, San Bernardino, 1898, 15-minute

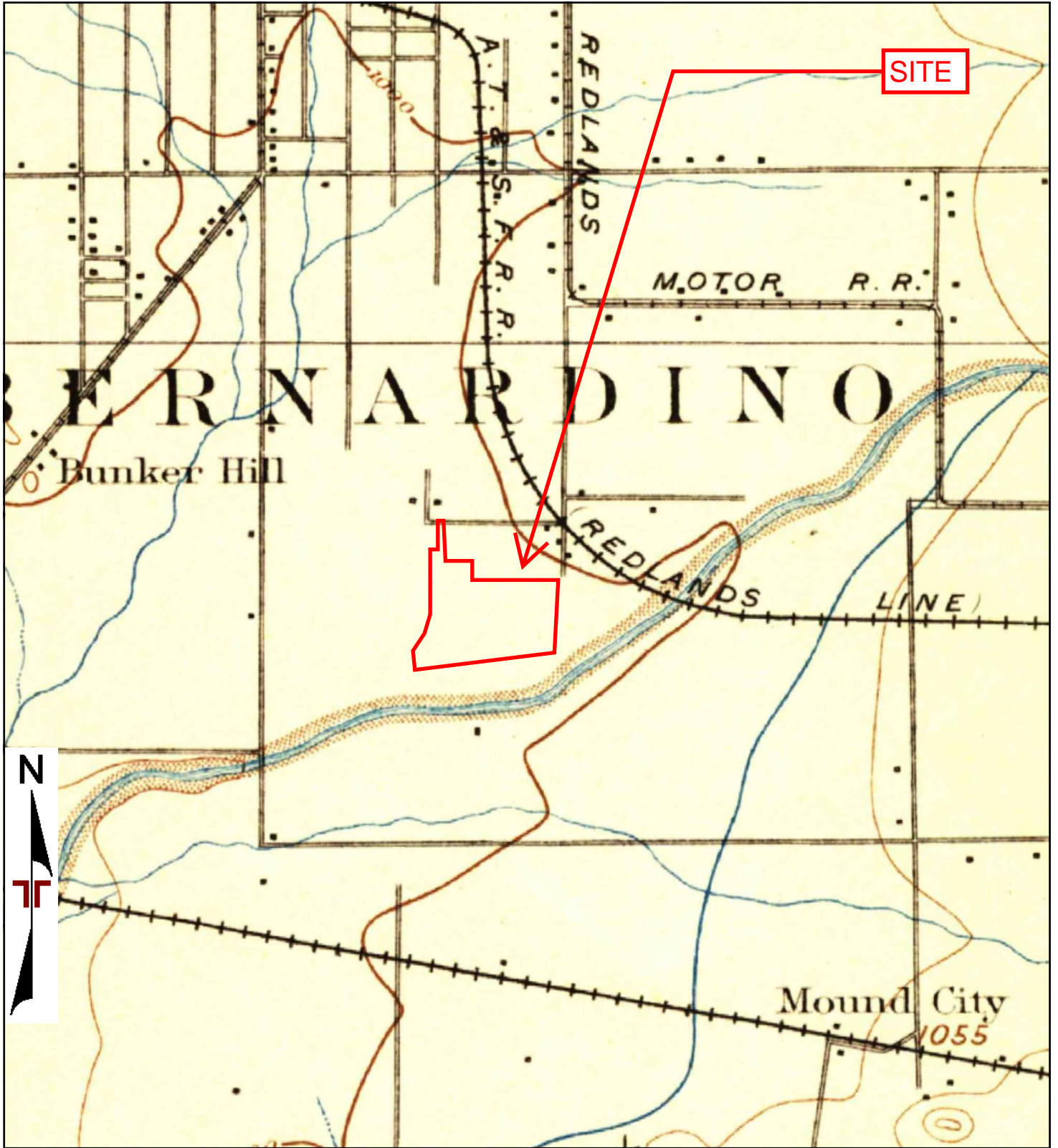


Project Manager:	Project No.
DJ	60167496
Drawn by:	Scale:
DJ	As Shown
Checked by:	File Name:
CAP	
Approved by:	Date:
CAP	1898

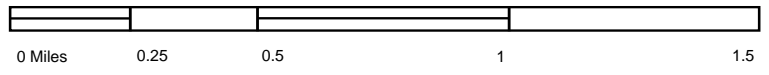
Terracon
 1421 Edinger Avenue
 Tustin, CA 92780

1898 TOPOGRAPHIC MAP
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino, San Bernardino County, California

Appendix
C



TP, San Bernardino, 1896, 15-minute



Project Manager:	DJ	Project No.	60167496
Drawn by:	DJ	Scale:	As Shown
Checked by:	CAP	File Name:	
Approved by:	CAP	Date:	1896

Terracon
 1421 Edinger Avenue
 Tustin, CA 92780

1896 TOPOGRAPHIC MAP
 Gateway South Building 4
 1494 South Waterman Avenue
 San Bernardino, San Bernardino County, California

Appendix
C

Gateway South Building 4
1494 South Waterman Avenue
San Bernardino, CA 92408

Inquiry Number: 4796773.3

December 05, 2016

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

12/05/16

Site Name:

Gateway South Building 4
1494 South Waterman Avenue
San Bernardino, CA 92408
EDR Inquiry # 4796773.3

Client Name:

Terracon
1421 Edinger Avenue
Tustin, CA 92780
Contact: David Jamison



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Certified Sanborn Results:

Certification # 8D0B-4B71-921F
PO # NA
Project 60167496

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: 8D0B-4B71-921F

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- Library of Congress
- University Publications of America
- EDR Private Collection

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Gateway South Building 4

1494 South Waterman Avenue
San Bernardino, CA 92408

Inquiry Number: 4796773.5
December 05, 2016

The EDR-City Directory Abstract

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SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2013	Cole Information Services	X	X	X	-
2008	Haines Company, Inc.	X	X	X	-
2003	Haines & Co Publishers	X	X	X	-
2002	Cole Information Services	-	-	-	-
1996	GTE Street Address Directory	X	X	X	-
1995	GTE Directories	-	-	-	-
1991	GTE California Incorporated	X	-	X	-
1990	GTE	-	-	-	-
1985	GTE Directories	-	-	-	-
1981	General Telephone Company of California	X	-	X	-
1980	GTE	-	-	-	-
1975	Pacific Telephone Co	X	-	X	-
1970	General Telephone Company of California	-	-	-	-
1965	Luskey Brothers & Co	-	-	-	-
1964	Luskey Brothers & Co	-	-	-	-
1961	Luskey Brothers & Co Publishers	-	-	-	-
1960	Luskey Brothers & Co Publishers	-	-	-	-
1956	General Telephone Company Publishers	-	-	-	-
1955	Luskey Brothers & Co Publishers	-	X	X	-
1951	Los Angeles Directory Company Publishers	-	-	-	-
1950	The Pacific Telephone and Telegraph Co	-	-	-	-
1949	San Bernardino Directory Co. Publishers	-	X	X	-

EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1946	Los Angeles Directory Company Publishers	-	-	-	-
1945	Southern California Telephone Company	-	X	X	-
1942	San Bernardino Directory Co Publisher	-	X	X	-
1941	Associated Telephone Company Limited	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Co.	-	-	-	-
1936	San Bernardino Directory Co Publisher	-	X	X	-
1934	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Co.	-	-	-	-
1930	San Bernardino Directory Co Publisher	-	X	X	-
1926	Los Angeles Directory Co Publisher	-	X	X	-
1923	Los Angeles Directory Company	-	-	-	-
1922	Los Angeles Directory Co Publisher	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
141 Dumas Street	Client Entered	X
1365 south Waterman Avenue	Client Entered	
399 Chandler Place	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

1494 South Waterman Avenue
San Bernardino, CA 92408

FINDINGS DETAIL

Target Property research detail.

S WATERMAN AVE

1494 S WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	SAN BERNARDINO GOLF CLUB	Cole Information Services
2008	SANBDO GOLF CLUB OFC	Haines Company, Inc.
1996	GOLF FORUM	GTE Street Address Directory
	SAN BERNARDINO GOLF CLUB	GTE Street Address Directory
1991	Cocktail Lounge	GTE California Incorporated
	From Redlands Telephones Call	GTE California Incorporated
	Ofc	GTE California Incorporated
	SAN BERNARDINO GOLF CLUB	GTE California Incorporated
1981	SBDO GOLF COURSE	General Telephone Company of California
1975	Trophy Room Lounge	Pacific Telephone Co

WATERMAN AVE S

1494 WATERMAN AVE S

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	SANBDO GOLF CLUB OFC	Haines & Co Publishers
1975	SBDO GOLF COURSE	General Telephone Company of California

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

CHANDLER PL

399 CHANDLER PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	CITY OF SAN BERNARDINO	Cole Information Services

Dumas Street

141 Dumas Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	BABINEAUX Cynthia	Haines Company, Inc.
	LEWIS C	Haines Company, Inc.
2003	BABINEAUX Cynthia	Haines & Co Publishers
	LEWIS Louise	Haines & Co Publishers

N WATERMAN AVE

1365 N WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	BEAUTIFUL LIGHT INN	Cole Information Services

S WATERMAN AVE

1365 S WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	INLAND REGIONAL CENTER INC	Cole Information Services
	INLAND REGIONAL CENTER	Cole Information Services
	TEAM OF ADVOCATES FOR	Cole Information Services

1485 S WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	SEPULVEDA BUILDING MATERIALS	Cole Information Services
2008	SEPULVEDA BUILDING MATERIALS	Haines Company, Inc.
1996	LINDSAY CONCRETE PRDCTS	GTE Street Address Directory

FINDINGS

1515 S WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	STRUCTURAL MATERIALS CO	Cole Information Services
2008	STRUCTURAL MATERIALS CO	Haines Company, Inc.

WATERMAN AVE

1406 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Muel ler Amarette	San Bernardino Directory Co. Publishers
1945	Mueller E F Mrs r	Southern California Telephone Company
1942	Mueller Amarette	San Bernardino Directory Co Publisher
	Mrs r	San Bernardino Directory Co Publisher
1936	Mueller E F	San Bernardino Directory Co Publisher
	plmbr	San Bernardino Directory Co Publisher
	Vacant	San Bernardino Directory Co Publisher
1930	Mueller E F plmbr	San Bernardino Directory Co Publisher

1420 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	furn rms	San Bernardino Directory Co. Publishers
	Bullock Anna Mrs	San Bernardino Directory Co. Publishers
1945	Bullock Anna Mrs r	Southern California Telephone Company
1942	furn rms r	San Bernardino Directory Co Publisher
	Bullock Anna Mrs	San Bernardino Directory Co Publisher
1936	Bullock Anna Mrs	San Bernardino Directory Co Publisher
1930	Bullock C M	San Bernardino Directory Co Publisher
	Mascy Geo	San Bernardino Directory Co Publisher
1926	Bullock C M	Los Angeles Directory Co Publisher
1922	Bullock C M dairy	Los Angeles Directory Co Publisher

1422 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1942	Maines J P r	San Bernardino Directory Co Publisher

1440 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Maines J P	San Bernardino Directory Co. Publishers
1945	Maines J P r	Southern California Telephone Company

FINDINGS

1456 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Bullock C F	San Bernardino Directory Co. Publishers

1462 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1936	Tripi J R	San Bernardino Directory Co Publisher
1930	Tripi J R	San Bernardino Directory Co Publisher
1926	Tripi J R	Los Angeles Directory Co Publisher
1922	Tripi P J	Los Angeles Directory Co Publisher

1472 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1942	Bullock Clarence r	San Bernardino Directory Co Publisher

1484 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Hardman J T	San Bernardino Directory Co. Publishers
1942	Triipe J R	San Bernardino Directory Co Publisher
	Triipe F J r	San Bernardino Directory Co Publisher

1492 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Cox W L	San Bernardino Directory Co. Publishers
1945	Cox Walter L r	Southern California Telephone Company
1942	Courtney J F	San Bernardino Directory Co Publisher
	Triipe J R	San Bernardino Directory Co Publisher
1936	Winkler Emma	San Bernardino Directory Co Publisher
1930	Winkler Jos	San Bernardino Directory Co Publisher

1498 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Bailey R M	San Bernardino Directory Co. Publishers

1516 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Kerr C F	San Bernardino Directory Co. Publishers
1945	Huston F J r	Southern California Telephone Company
1942	Hupton F J r	San Bernardino Directory Co Publisher
1936	Huston F J	San Bernardino Directory Co Publisher
1930	Huston F J	San Bernardino Directory Co Publisher

FINDINGS

1524 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Radich D R	San Bernardino Directory Co. Publishers
1942	James C B	San Bernardino Directory Co Publisher
1936	Stone K B	San Bernardino Directory Co Publisher
1930	Borge R P	San Bernardino Directory Co Publisher
1926	Huston F J	Los Angeles Directory Co Publisher
1922	Jordan F W	Los Angeles Directory Co Publisher

1528 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Ross Elmer	San Bernardino Directory Co. Publishers
1945	Foos Geo r	Southern California Telephone Company
1942	Horton Kenneth	San Bernardino Directory Co Publisher
1936	Beatty C L	San Bernardino Directory Co Publisher
	grading contr	San Bernardino Directory Co Publisher
1930	Beatty C L	San Bernardino Directory Co Publisher
1926	Beatty C L	Los Angeles Directory Co Publisher
1922	Beatty C L	Los Angeles Directory Co Publisher

1532 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Beatty C L	San Bernardino Directory Co. Publishers
1945	Beatty Carl r	Southern California Telephone Company
1942	Beatty C L r	San Bernardino Directory Co Publisher

1568 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Peterson C C	San Bernardino Directory Co. Publishers
1945	Peterson Mabel r	Southern California Telephone Company
1942	Peterson C C r	San Bernardino Directory Co Publisher
1936	Becker M E	San Bernardino Directory Co Publisher
1930	Layman R A	San Bernardino Directory Co Publisher
1926	Layman Richd	Los Angeles Directory Co Publisher

1572 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Rice P N	San Bernardino Directory Co. Publishers
1945	Hoerning J C r	Southern California Telephone Company
1942	Rice P N r	San Bernardino Directory Co Publisher

FINDINGS

1594 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Kiesling J C	San Bernardino Directory Co. Publishers
1945	Cline E C r	Southern California Telephone Company
1942	Cline E C r	San Bernardino Directory Co Publisher
1936	Cline E C	San Bernardino Directory Co Publisher
1930	Cline E C	San Bernardino Directory Co Publisher
1926	Lawson W L	Los Angeles Directory Co Publisher

1600 WATERMAN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1922	Brock W E	Los Angeles Directory Co Publisher

WATERMAN AVE S

1393 WATERMAN AVE S

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	De Clouette J L	Luskey Brothers& Co Publishers

1397 WATERMAN AVE S

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Jones Golston	Luskey Brothers& Co Publishers

1399 WATERMAN AVE S

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Carnahan P C	Luskey Brothers& Co Publishers
	Santa Ana River bridge	Luskey Brothers& Co Publishers

1485 WATERMAN AVE S

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	SEPULVEDA BUILDING MATERIALS	Haines & Co Publishers

1515 WATERMAN AVE S

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	XXXX	Haines & Co Publishers

1525 WATERMAN AVE S

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	XXXX	Haines & Co Publishers

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched

1494 South Waterman Avenue

Address Not Identified in Research Source

2002, 1995, 1990, 1985, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched

1365 N WATERMAN AVE

Address Not Identified in Research Source

2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

1365 S WATERMAN AVE

2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

1365 S WATERMAN AVE

2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

1365 south Waterman Avenue

2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

1393 WATERMAN AVE S

2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

1397 WATERMAN AVE S

2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

1399 WATERMAN AVE S

2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

1406 WATERMAN AVE

2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1946, 1941, 1940, 1938, 1934, 1931, 1926, 1923, 1922

141 Dumas Street

2013, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

1420 WATERMAN AVE

2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1946, 1941, 1940, 1938, 1934, 1931, 1923

1422 WATERMAN AVE

2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched

1532 WATERMAN AVE

1568 WATERMAN AVE

1572 WATERMAN AVE

1594 WATERMAN AVE

1600 WATERMAN AVE

399 CHANDLER PL

399 Chandler Place

Address Not Identified in Research Source

2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1946, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1946, 1941, 1940, 1938, 1934, 1931, 1923, 1922

2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1946, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1946, 1941, 1940, 1938, 1934, 1931, 1923, 1922

2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923

2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

2013, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

COUNTY FIRE DEPARTMENT



COUNTY OF SAN BERNARDINO

HAZARDOUS MATERIALS DIVISION
FIELD SERVICES • ENVIRONMENTAL PROTECTION
385 North Arrowhead Avenue, Second Floor • San Bernardino, CA 92415-0153
(909) 387-3080 • Fax (909) 387-4323

PETER R. HILLS
Fire Chief
County Fire Warden

November 19, 1998

J.G. GOLFING ENTERPRISES
1494 S WATERMAN AVENUE
SAN BERNARDINO, CA 92408

**SUBJECT: REMOVAL OF TWO UNDERGROUND STORAGE TANKS AT
SAN BERNARDINO GOLF CLUB, 1494 S WATERMAN AVE
SAN BERNARDINO**

The Department has received the sample results and/or closure report submitted AMI ADINI & ASSOCIATES, INC dated November 12, 1998.

After review of the reported prepared by you or your agent, it has been determined that the extent of the contamination or lack thereof would indicate no further investigation is warranted at this time.

It is important to note that this can not be constructed as a release of liability for the site or declaration that the site is free from contamination. Should further projects or environmental investigations reveal additional contaminants on site, you will be responsible and held liable for the investigation and remedial actions.

If you have any questions, please call (909) 387-3082.

CURTIS ARMSTRONG, ES III
Hazardous Materials Field Service

CA:llm

JAMES J. HLAWEK
County Administrative Officer

KATHY A. DAVIS
JON D. MIKELS

Board of Supervisors
DENNIS HANSBERGER Third District
LARRY WALKER Fourth District
JERRY EAVES Fifth District

Brian T. Thorne
Bruce A. Armbruster
Daren E. Jorgensen

VIA CERTIFIED MAIL, RETURN RECEIPT

Mr. Sonny Hammond
San Bernardino Golf Club
1494 South Waterman Avenue
San Bernardino, CA 92408

24 December 1998

Re: Closure Report for Removal of Underground Storage Tanks.

Dear Sonny:

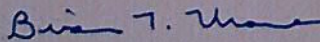
Enclosed are three copies of the Closure Report for the Removal of Underground Storage Tanks ("Closure Report") completed for San Bernardino Golf Club located at 1494 South Waterman Avenue in San Bernardino, California. Please review the Closure Report. If accurate, please send one copy to the San Bernardino County Fire Department, Hazardous Materials Division and one copy to the City of San Bernardino, Department of Fire **via certified mail, return receipt:**

San Bernardino County Fire Department
Hazardous Materials Division
385 North Arrowhead Avenue
San Bernardino, CA 92415
Attention: Mr. Curtis Armstrong

City of San Bernardino
Department of Fire
200 East Third Street
San Bernardino, CA 92410

The remaining copy of the Closure Report is for San Bernardino Golf Club's records. Please call me or Daren with any questions or comments.

Sincerely,



Brian T. Thorne
Vice President

Daren E. Jorgensen
President

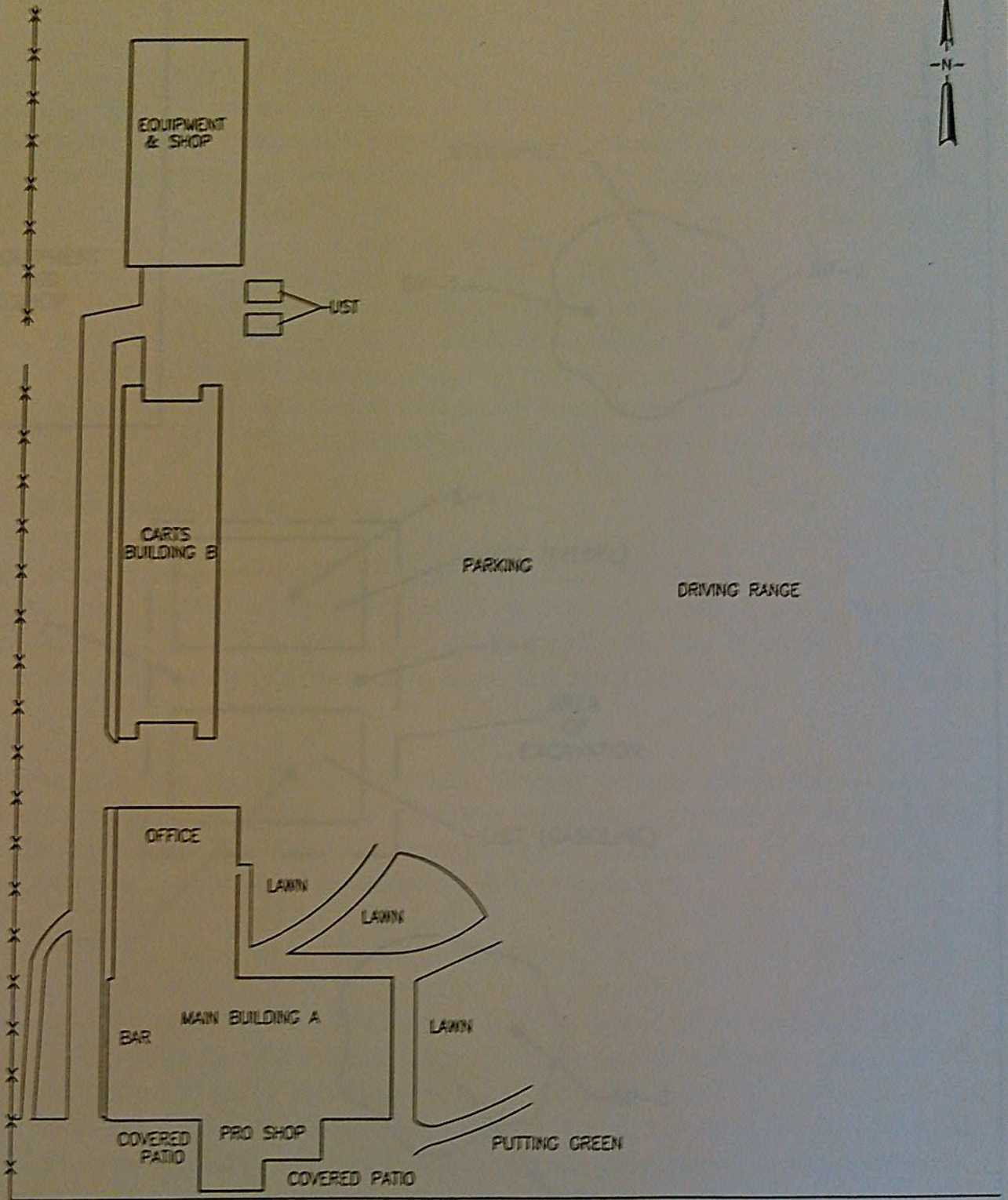
cc: Dr. Ivan Grossman, via regular mail, with enclosures

enclosures, 7091, J:\Client Documents\SBGC_San Bernardino Golf Club\SBGCUST987091LTR_Cover letter re closure report of USTs.wpd

Asbestos Inspections
Containment Certifications
Engineering
Facility Closure
Monitoring
New Site Selection
Project Management
Risk/Fate Assessment
Site Assessment
Tank Inspections



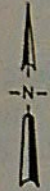
Corporate Office
10374 Trademark Street
Rancho Cucamonga
California 91730
Voice (909) 483-3300
Fax (909) 483-3306



San Bernardino Golf Club
 1494 South Waterman Avenue
 San Bernardino, California

Site Map

DWG-9802251 (Not to scale)



EQUIPMENT
AND
SHOP

STOCKPILE

SP-1

SP-2

S-1

UST (DIESEL)

S-5

S-4

AREA
OF
EXCAVATION

UST (GASOLINE)

S-2

SP-3

STOCKPILE

San Bernardino Golf Club
1494 South Waterman Avenue
San Bernardino, California

Soil Sample Location Map
10 November 1998

DWG-9802579 (Not to scale)

Jorgensen Environmental

Figure 3

Page iv

Introduction

This closure report for the removal of underground storage tanks ("closure report") was prepared at the request and direction of San Bernardino Golf Club located at 1494 South Waterman Avenue in San Bernardino, California (the "site"). Two underground storage tanks ("USTs") formerly containing petroleum fuels were removed from the site in November 1998.

Site Description

San Bernardino Golf Club is located in the southern portion of San Bernardino County within Section 22, Township 1 South, Range 4 West, San Bernardino base line and principal meridian (see **Figure 1**, page ii). The site is approximately one mile to the northeast of the 10 Freeway and 215 Freeway interchange. The elevation of the site is approximately 1,000 feet above mean sea level. The site is neighbored by a light manufacturing facility and residential areas.

Geologic and Hydrologic Setting

Topography in the immediate vicinity of the site is relatively flat. The San Bernardino Mountains are located approximately eight miles to the north of the site. The Box Springs Mountains are located approximately two miles to the south of the site. The nearest surface water to the site is the Santa Ana River located approximately a quarter of a mile to the south of the site.

Records were obtained for the water levels and approximate locations of the wells in the immediate site area from the Western Municipal Water District, Cooperative Well Measuring Program. The water level in a well located in the same tract as the site (T.1S, R.4W) was measured at approximately twenty five feet below ground surface on 10 January 1998.

Fueling Operations

Maintenance vehicles were fueled by the two former USTs located to the southeast of the equipment and shop building. The location of the USTs are shown in **Figure 2** (page iii). The former USTs include a 550 gallon gasoline tank and a 550 gallon diesel fuel tank. The former USTs were installed at the site in 1983 and have been used since that time. Fuel was dispensed from the USTs into small plastic containers. The containers were carried by hand from the dispensing area to the vehicles for fueling.

Tank Removal

Prior to removing the USTs from the site, an Application for Removal of Underground Storage Tank, an Underground Storage Tank Permit Application - Form A, and two Underground Storage Tank Permit Applications - Form B were submitted to San Bernardino County Fire Department, Hazardous Materials Division ("county fire department"). Additionally, an Application for Permit was submitted to the City of San Bernardino Department of Fire.

Removal of the USTs was completed under the oversight of Mr. Curtis Armstrong of the county fire department.

On 10 November 1998 representatives of State Environmental Management, Inc. began removing soil in the vicinity of the two USTs using backhoe. One 550 gallon steel tank previously containing diesel fuel and one 550 gallon steel tank previously containing gasoline were exposed.

An organic vapor analyzer ("OVA") was used to monitor volatile organic compounds emitted from the soil as it was excavated and from two soil stockpiles. Monitoring of the soil was conducted pursuant to Rule 1166 issued by the South Coast Air Quality Management District.

The USTs were triple-rinsed and degassed by Nieto & Sons Trucking, Inc. at approximately 1100 hours. Residual wastes from the USTs and the rinsate was transported to Demenno Kerdoon as a hazardous waste.

Mr. Armstrong arrived on-site to observe the removal of the USTs at approximately 1300 hours. After measurements of the lower explosive limit were determined to be negligible, dry ice was placed into the USTs. The USTs were then removed using a backhoe and placed onto a flat bed truck. The USTs were taken off-site as a non-hazardous waste to American Metal Recycling.

Following the removal of the USTs four soil samples were collected from the excavation pit. S-1 was collected beneath the UST formally containing diesel, S-2 was collected beneath the UST formally containing gasoline, S-4 was collected at the east side wall of the excavation, and S-5 was collected at the west side wall of the excavation. No sample was labeled as S-3. The location of the soil samples are shown in **Figure 3** (page iv).

In addition to the soil samples collected from the excavation, three soil samples were collected from the two stockpiles. SP-1 and SP-2 were collected from the stockpile located east of the excavation. SP-3 was collected from the stockpile located to the south of the excavation.

The soil samples were collected in four ounce glass jars and packed to minimize head space. The jars were sealed, labeled, and placed in a chilled ice chest. The samples were delivered to a state-certified laboratory for analysis and conveyed chain-of-custody. Copies of the chain-of-custody forms are included in **Appendix C**.

Sample S-1 was analyzed for total petroleum hydrocarbons as diesel ("TPH-D"), methyl t-butyl ether ("MTBE"), and benzene, toluene, ethylbenzene, and xylenes ("BTEX"). S-2 was analyzed for total petroleum hydrocarbons as gasoline ("TPH-G"), MTBE, BTEX, and total lead. S-4 was analyzed for TPH-D, TPH-G, MTBE, and BTEX. S-5 was analyzed for TPH-D, TPH-G, MTBE, and BTEX.

Samples SP-1 and SP-2 were analyzed for TPH-D, TPH-G, MTBE, and BTEX. SP-3 was analyzed for TPH-D, TPH-G, MTBE, BTEX, and total lead. Analytical results are summarized



Closure Report

in **Table 1** in **Appendix A**. The laboratory data sheets for the analysis are provided in **Appendix B**.

The only constituent detected in the samples was lead at a concentration of 8 mg/kg in sample S-3. Based on the concentrations detected, additional soil excavation was not necessary.

Conclusions

Based on the analytical results obtained from soil samples, measurements from the OVA, and visual observations, no further work is apparently necessary.

Table 1 - Soil Sample Analytical Results

Sample Number	TPH-D (mg/kg)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Total Lead (mg/kg)
S-1 ¹	<10	NA	<0.005	<0.005	<0.005	<0.01	<0.025	NA
S-2 ¹	NA	<0.1	<0.005	<0.005	<0.005	<0.01	<0.025	<5.0
S-4 ²	<10	<0.1	<0.005	<0.005	<0.005	<0.01	<0.025	NA
S-5 ²	<10	<0.1	<0.005	<0.005	<0.005	<0.01	<0.025	NA
SP-1	<10	<0.1	<0.005	<0.005	<0.005	<0.01	<0.025	NA
SP-2	<10	<0.1	<0.005	<0.005	<0.005	<0.01	<0.025	NA
SP-3	<10	<0.1	<0.005	<0.005	<0.005	<0.01	<0.025	8

TPH-D - total petroleum hydrocarbons as diesel

TPH-G - total petroleum hydrocarbons as gasoline

MTBE - methyl tert-butyl ether

NA - Not Analyzed

¹ approximate depth of sample was 10 feet bsg

² approximate depth of sample was 5 feet bsg

Appendix B - Laboratory Results

LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
VOICE (909) 483-3300 FAX (909) 483-3306

PROJECT: 7091.00

MATRIX: SOIL
SAMPLING DATE: 11/10/98
REPORT TO: Mr. BRIAN T. THORNE
DATE SAMPLES REC'D: 11/10/98
DATE ANALYZED: 11/11-12/98
DATE REPORTED: 11/12/98

SAMPLE I.D.: S-1
LAB I.D.: 981110-61

PARAMETER	UNIT	SAMPLE RESULT	PQL (X1)	EPA METHOD
TPH-DIESEL RANGE (C10-C12)	MG/KG	ND	10	LUFT/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A

COMMENTS

MG/KG = PPM
TPH = TOTAL PETROLEUM HYDROCARBONS
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT
MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: *[Signature]*

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
VOICE (909) 483-3300 FAX (909) 483-3306

PROJECT: 7091.00

MATRIX: SOIL DATE SAMPLES REC'D: 11/10/98
SAMPLING DATE: 11/10/98 DATE ANALYZED: 11/11-12/98
REPORT TO: Mr. BRIAN T. THORNE DATE REPORTED: 11/12/98

SAMPLE I.D.: S-2 LAB I.D.: 981110-62

Table with 5 columns: PARAMETER, UNIT, SAMPLE RESULT, PQL (X1), EPA METHOD. Rows include TPH-GASOLINE RANGE, BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENES, MTBE, and TOTAL LEAD.

COMMENTS

MG/KG = PPM
TPH = TOTAL PETROLEUM HYDROCARBONS
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT
MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: [Signature]

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
 10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
 VOICE (909) 483-3300 FAX (909) 483-3306

PROJECT: 7091.00

MATRIX: SOIL
 SAMPLING DATE: 11/10/98
 REPORT TO: MR. BRIAN L. THORNE
 DATE ANALYZED: 11/11/98
 DATE REPORTED: 11/12/98

SAMPLE I.D.: S-4
 LAB I.D.: 981110-63

PARAMETER	UNIT	SAMPLE RESULT	PQL (X1)	EPA METHOD
TPH-DIESEL RANGE (C10-C12)	MG/KG	ND	10	LUFT/8015M
TPH-GASOLINE RANGE (C4-C10)	MG/KG	ND	0.1	5030/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A

COMMENTS
 MG/KG = PPM
 TPH = TOTAL PETROLEUM HYDROCARBONS
 PQL = PRACTICAL QUANTITATION LIMIT
 ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT
 MTBE = METHYL tert-BUTYL ETHER

_____ Data Reviewed and Approved by: *[Signature]*

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
VOICE(909)483-3300 FAX(909)483-3306

PROJECT: 7091.00

MATRIX: SOIL
SAMPLING DATE: 11/10/98
REPORT TO: Mr. BRIAN T. THORNE

DATE SAMPLES REC'D: 11/10/98
DATE ANALYZED: 11/11-12/98
DATE REPORTED: 11/12/98

SAMPLE I.D.: S-5

LAB I.D.: 981110-64

PARAMETER	UNIT	SAMPLE RESULT	PQL (X1)	EPA METHOD
TPH-DIESEL RANGE (C10-C12)	MG/KG	ND	10	LUFT/8015M
TPH-GASOLINE RANGE (C4-C10)	MG/KG	ND	0.1	5030/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A

COMMENTS

MG/KG = PPM

TPH = TOTAL PETROLEUM HYDROCARBONS

PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT

MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: *[Signature]*

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
VOICE (909) 483-3300 FAX (909) 483-3306

PROJECT: 7091.00

MATRIX: SOIL DATE SAMPLES REC'D: 11/10/98
SAMPLING DATE: 11/10/98 DATE ANALYZED: 11/11-12/98
REPORT TO: Mr. BRIAN T. THORNE DATE REPORTED: 11/12/98

SAMPLE I.D.: SP-1

LAB I.D.: 981110-65

PARAMETER	UNIT	SAMPLE RESULT	PQL (X1)	EPA METHOD
TPH-DIESEL RANGE (C10-C12)	MG/KG	ND	10	LUFT/8015M
TPH-GASOLINE RANGE (C4-C10)	MG/KG	ND	0.1	5030/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A

COMMENTS

MG/KG = PPM
TPH = TOTAL PETROLEUM HYDROCARBONS
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT
MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: *Pete Deiler*

CAL-DHS ELAP CERTIFICATE No.: 1555



Enviro - Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
VOICE (909) 483-3300 FAX (909) 483-3306

PROJECT: 7091.00

MATRIX: SOIL
SAMPLING DATE: 11/10/98
REPORT TO: Mr. BRIAN T. THORNE
DATE SAMPLES REC'D: 11/10/98
DATE ANALYZED: 11/11-12/98
DATE REPORTED: 11/12/98

SAMPLE I.D.: SP-2

LAB I.D.: 981110-66

PARAMETER	UNIT	SAMPLE RESULT	PQL (X1)	EPA METHOD
TPH-DIESEL RANGE (C10-C12)	MG/KG	ND	10	LUFT/8015M
TPH-GASOLINE RANGE (C4-C10)	MG/KG	ND	0.1	5030/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A

COMMENTS

MG/KG = PPM
TPH = TOTAL PETROLEUM HYDROCARBONS
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT
MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: *Peter Hills*

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
 10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
 VOICE(909)483-3300 FAX(909)483-3306

PROJECT: 7091.00

MATRIX: SOIL
 SAMPLING DATE: 11/10/98
 REPORT TO: Mr. BRIAN T. THORNE
 DATE SAMPLES REC'D: 11/10/98
 DATE ANALYZED: 11/11-12/98
 DATE REPORTED: 11/12/98

SAMPLE I.D.: SP-3 LAB I.D.: 981110-67

PARAMETER	UNIT	SAMPLE RESULT	PQL (X1)	EPA METHOD
TPH-GASOLINE RANGE (C4-C10)	MG/KG	ND	0.1	5030/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A
TOTAL LEAD	MG/KG	8.0	5.0	3050/6010A

COMMENTS

MG/KG = PPM
 TPH = TOTAL PETROLEUM HYDROCARBONS
 PQL = PRACTICAL QUANTITATION LIMIT
 ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT
 MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: *[Signature]*

CAL-DHS ELAP CERTIFICATE No.: 1555

METHOD BLANK REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
VOICE (909) 483-3300 FAX (909) 483-3306

PROJECT: 7091.00

MATRIX: SOIL
SAMPLING DATE: 11/10/98
REPORT TO: Mr. BRIAN T. THORNE
DATE SAMPLES REC'D: 11/10/98
DATE ANALYZED: 11/11-12/98
DATE REPORTED: 11/12/98

METHOD BLANK FOR LAB I.D.: 981110-61 TO -67

PARAMETER	UNIT	SAMPLE RESULT	PQL (X1)	EPA METHOD
TPH-DIESEL RANGE (C10-C12)	MG/KG	ND	10	LUFT/8015M
TPH-GASOLINE RANGE (C4-C10)	MG/KG	ND	0.1	5030/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A
TOTAL LEAD	MG/KG	ND	5.0	3050/6010A

COMMENTS

MG/KG = PPM
TPH = TOTAL PETROLEUM HYDROCARBONS
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT
MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: *Curtis Peils*

CAL-DHS ELAP CERTIFICATE No.: 1555

QA/QC REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
VOICE (909) 483-3300 FAX (909) 483-3306

PROJECT: 7091.00

MATRIX: SOIL
SAMPLING DATE: 11/10/98
REPORT TO: Mr. BRIAN T. THORNE
DATE SAMPLES REC'D: 11/10/98
DATE ANALYZED: 11/11-12/98
DATE REPORTED: 11/12/98

UNIT: MG/KG (PPM)
QA/QC REPORT FOR 981110-61 TO -67

MATRIX SPIKE (MS)/MATRIX SPIKE DUPLICATE (MSD)

SPIKED SAMPLE LAB I.D.: 981110-63 (DIESEL); 981110-67 (LEAD/GAS/BTEX)

ANALYTE	SR	SPK CONC	MS	% MS	MSD	% MSD	% RPD	ACP %MS	ACP RPD
TPH-DIESEL	ND	3400	3138	92	2746	81	13	75-125	0-20
TPH-GASOLINE	ND	5.00	5.090	102	4.226	84	19	75-125	0-20
TOLUENE	ND	0.500	0.510	102	0.430	86	17	75-125	0-20
LEAD	7.98	50.0	49.9	84	40.3	84	1	75-125	0-20

COMMENTS

- SR = SAMPLE RESULT
- SPK CONC = SPIKE CONCENTRATION
- MS = MATRIX SPIKE SAMPLE RESULT
- %MS = PERCENT SPIKE RECOVERY RESULT
- MSD = MATRIX SPIKE DUPLICATE RESULT
- %MSD = PERCENT MATRIX SPIKE RECOVERY, DUPLICATE
- %RPD = PERCENT DEVIATION OF THE SPIKE RECOVERY RESULTS
- ACP = ACCEPTABLE RANGE

APPROVED BY: *Brian T. Thorne*

2001 BERNARDINO COUNTY
1700 S. MULLENBURY VALLEY
10 BERNARDINO COUNTY

John Armstrong
San Bernardino County Fire Department
Hazardous Materials Division
385 North Arrowhead Avenue
San Bernardino, CA 92415

12 November 1998

Re: San Bernardino Golf Club, San Bernardino, California.

Dear Curtis:

Two underground storage tanks ("USTs") were removed from San Bernardino Golf Club located at 1494 South Waterman Avenue in San Bernardino on 10 November 1998 under your supervision. The USTs were each 550 gallons and were formerly used to store either unleaded gasoline or diesel fuel. Results of soil samples collected beneath the USTs and the soil stockpiles are provided as an attachment.

Two soil samples, S-1 and S-2, were collected beneath the former locations of the USTs at your direction. An additional two soil samples, S-4 and S-5, were collected from the excavation following the removal of the USTs. Three soil samples, SP-1, SP-2, and SP-3, were collected from soil stockpiles at your direction.

Each sample was analyzed for total petroleum hydrocarbons as diesel ("TPH-D") or total petroleum hydrocarbons as gasoline ("TPH-G") using EPA method 8015M. The seven soil samples were analyzed for benzene, toluene, ethylbenzene, xylenes, and methyl tert-butyl ether using EPA method 8020. Additionally, two samples were analyzed for total lead using EPA method 6010.

TPH-D, TPH-G, benzene, toluene, ethylbenzene, xylenes, and methyl tert-butyl ether were not detected in the soil samples. Total lead was detected in one sample collected from a stockpile at a concentration of 8.0 mg/kg. The lead level detected is below the total threshold limit concentration of 1,000 mg/kg, is not more than ten times the soluble threshold limit concentration of 5.0 mg/L, and is not more than twenty times the toxicity characteristic leaching procedure limit of 5.0 mg/L.

Based on the analytical results we propose to backfill the excavation and resurface the area. Please call me to confirm receipt of the results and to authorize backfill.

- Asbestos Inspections
- Containment Certifications
- Engineering
- Facility Closure
- Monitoring
- New Site Selection
- Project Management
- Risk/Fate Assessment
- Site Assessment
- Tank Inspections



Corporate Office
10374 Trademark Street
Rancho Cucamonga
California 91730
Voice (909) 483-3300
Fax (909) 483-3306

Jorgensen Environmental Assessment

Brian T. Thorne
Bruce A. Armbruster
Daren E. Jorgensen

VIA TELECOPY: 909.387.4323 ✓

Mr. Curtis Armstrong
San Bernardino County Fire Department
Hazardous Materials Division
385 North Arrowhead Avenue
San Bernardino, CA 92415

12 November 1998

Re: San Bernardino Golf Club, San Bernardino, California.

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Based on the analytical results we propose to backfill the excavation and resurface the area. Please call me to confirm receipt of the results and to authorize backfill.

Asbestos Inspections
Containment Certifications
Engineering
Facility Closure
Monitoring
New Site Selection
Project Management
Risk/Fate Assessment
Site Assessment
Tank Inspections



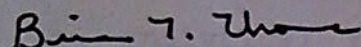
Corporate Office
10374 Trademark Street
Rancho Cucamonga
California 91730
Voice (909) 483-3300
Fax (909) 483-3306

Mr. Curtis Armstrong
San Bernardino County Fire Department
Hazardous Materials Division
12 November 1998
Page 2

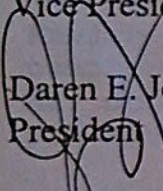
A closure report will be submitted to your office by 11 December 1998 and will include copies of the analytical results and site maps.

Please call me or Daren Jorgensen with any comments or questions.

Sincerely,



Brian T. Thorne
Vice President



Daren E. Jorgensen
President

cc: Dr. Ivan Grossman, San Bernardino Golf Club, via telecopy 650.948.3122 w/ attachment ✓
Mr. Sonny Hammond, San Bernardino Golf Club, via telecopy 909.885.1674 w/ attachment ✓

(confirmation copy to Mr. Armstrong via certified mail, return receipt)

attachment, 7091, J:\Client Documents\SBGC_San Bernardino Public Golf Club\SBGCUST987901LTR_To San Bernardino County Fire Department re analytical results.wpd

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: November 12, 1998

Mr. Brian T. Thorne
Jorgensen Environmental
10374 Trademark Street
Rancho Cucamonga, CA 91730
Voice (909) 483-3300 Fax (909) 483-3306

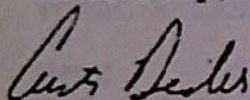
Project: 7091.00

Dear Mr. Thorne:

The analytical results for the soil samples received by our laboratory on November 10, 1998, are attached. All samples were received chilled, intact, and accompanying chain of custody.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call Mr. John Ackerman, our Customer Service Specialist, or myself, if you have any questions.

Sincerely,



Curtis Desilets
Director of Laboratory Services

Compton Persaud
Laboratory Manager

Jeanne Shoulder
Quality Assurance Manager

Enviro - Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 890-8905 Fax (909) 890-8907

LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
VOICE (909) 483-3300 FAX (909) 483-3305

PROJECT: 7091.00

MATRIX: SOIL
SAMPLING DATE: 11/10/98
REPORT TO: MR. BRIAN T. THORNE

DATE SAMPLES REC'D: 11/10/98
DATE ANALYZED: 11/11-12/98
DATE REPORTED: 11/12/98

SAMPLE I.D.: S-1
LAB I.D.: 981110-61

PARAMETER	UNIT	SAMPLE RESULT	PQL(X1)	EPA METHOD
TPH-DIESEL RANGE (C10-C12)	MG/KG	ND	10	LUFT/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A

COMMENTS
MG/KG = PPM
TPH = TOTAL PETROLEUM HYDROCARBONS
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT
MTBE = METHYL tert-BUTYL ETHER

Date Reviewed and Approved by: *Paul D. Dwyer*

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
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LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
 10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
 VOICE (909) 483-3300 FAX (909) 483-3306

PROJECT: 7091.00

MATRIX: SOIL DATE SAMPLES REC'D: 11/10/98
 SAMPLING DATE: 11/10/98 DATE ANALYZED: 11/11-12/98
 REPORT TO: Mr. BRIAN T. THORNE DATE REPORTED: 11/12/98

 SAMPLE I.D.: S-1 LAB I.D.: 981110-61

PARAMETER	UNIT	SAMPLE RESULT	PQL (X1)	EPA METHOD
TPH-DIESEL RANGE (C10-C12)	MG/KG	ND	10	LUFT/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A

COMMENTS

MG/KG = PPM
 TPH = TOTAL PETROLEUM HYDROCARBONS
 PQL = PRACTICAL QUANTITATION LIMIT
 ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT
 MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: *Luiz Pereira*

CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
 10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
 VOICE (909) 483-3300 FAX (909) 483-3306

PROJECT: 7091.00

MATRIX: SOIL DATE SAMPLES REC'D: 11/10/98
 SAMPLING DATE: 11/10/98 DATE ANALYZED: 11/11-12/98
 REPORT TO: Mr. BRIAN T. THORNE DATE REPORTED: 11/12/98

 SAMPLE I.D.: S-2

LAB I.D.: 981110-62

PARAMETER	UNIT	SAMPLE RESULT	PQL (X1)	EPA METHOD
TPH-GASOLINE RANGE (C4-C10)	MG/KG	ND	0.1	5030/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A
TOTAL LEAD	MG/KG	ND	5.0	3050/6010A

COMMENTS

MG/KG = PPM

TPH = TOTAL PETROLEUM HYDROCARBONS

PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT

MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: *Christine Deiler*

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
VOICE (909) 483-3300 FAX (909) 483-3306

PROJECT: 7091.00

MATRIX: SOIL
SAMPLING DATE: 11/10/98
REPORT TO: Mr. BRIAN T. THORNE
DATE SAMPLES REC'D: 11/10/98
DATE ANALYZED: 11/11/98
DATE REPORTED: 11/12/98

SAMPLE I.D.: S-4
LAB I.D.: 981110-63

PARAMETER	UNIT	SAMPLE RESULT	PQL (X1)	EPA METHOD
TPH-DIESEL RANGE (C10-C12)	MG/KG	ND	10	LUFT/8015M
TPH-GASOLINE RANGE (C4-C10)	MG/KG	ND	0.1	5030/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A

COMMENTS

MG/KG = PPM
TPH = TOTAL PETROLEUM HYDROCARBONS
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT
MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: *Lisa Dantes*

CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
 10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
 VOICE (909) 483-3300 FAX (909) 483-3306

PROJECT: 7091.00

MATRIX: SOIL
 SAMPLING DATE: 11/10/98
 REPORT TO: Mr. BRIAN T. THORNE

DATE SAMPLES REC'D: 11/10/98
 DATE ANALYZED: 11/11-12/98
 DATE REPORTED: 11/12/98

SAMPLE I.D.: S-5

LAB I.D.: 981110-64

PARAMETER	UNIT	SAMPLE RESULT	PQL (X1)	EPA METHOD
TPH-DIESEL RANGE (C10-C12)	MG/KG	ND	10	LUFT/8015M
TPH-GASOLINE RANGE (C4-C10)	MG/KG	ND	0.1	5030/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A

COMMENTS

MG/KG = PPM

TPH = TOTAL PETROLEUM HYDROCARBONS

PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT

MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: *Paul Deiles*

CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
VOICE (909) 483-3300 FAX (909) 483-3306

PROJECT: 7091.00

MATRIX: SOIL
SAMPLING DATE: 11/10/98
REPORT TO: Mr. BRIAN T. THORNE

DATE SAMPLES REC'D: 11/10/98
DATE ANALYZED: 11/11-12/98
DATE REPORTED: 11/12/98

SAMPLE I.D.: SP-1

LAB I.D.: 981110-65

PARAMETER	UNIT	SAMPLE RESULT	PQL (X1)	EPA METHOD
TPH-DIESEL RANGE (C10-C12)	MG/KG	ND	10	LUFT/8015M
TPH-GASOLINE RANGE (C4-C10)	MG/KG	ND	0.1	5030/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A

COMMENTS

MG/KG = PPM

TPH = TOTAL PETROLEUM HYDROCARBONS

PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT

MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: *Curt Deiler*

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
VOICE (909) 483-3300 FAX (909) 483-3306

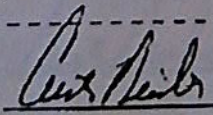
PROJECT: 7091.00

MATRIX: SOIL DATE SAMPLES REC'D: 11/10/98
SAMPLING DATE: 11/10/98 DATE ANALYZED: 11/11-12/98
REPORT TO: Mr. BRIAN T. THORNE DATE REPORTED: 11/12/98

SAMPLE I.D.: SP-2 LAB I.D.: 981110-66

PARAMETER	UNIT	SAMPLE RESULT	PQL(X1)	EPA METHOD
TPH-DIESEL RANGE (C10-C12)	MG/KG	ND	10	LUFT/8015M
TPH-GASOLINE RANGE (C4-C10)	MG/KG	ND	0.1	5030/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A

COMMENTS
MG/KG = PPM
TPH = TOTAL PETROLEUM HYDROCARBONS
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT
MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL
10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730
VOICE (909) 483-3300 FAX (909) 483-3306

PROJECT: 7091.00

MATRIX: SOIL
SAMPLING DATE: 11/10/98
REPORT TO: Mr. BRIAN T. THORNE

DATE SAMPLES REC'D: 11/10/98
DATE ANALYZED: 11/11-12/98
DATE REPORTED: 11/12/98

SAMPLE I.D.: SP-3

LAB I.D.: 981110-67

PARAMETER	UNIT	SAMPLE RESULT	PQL (X1)	EPA METHOD
TPH-GASOLINE RANGE (C4-C10)	MG/KG	ND	0.1	5030/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A
TOTAL LEAD	MG/KG	8.0	5.0	3050/6010A

COMMENTS

MG/KG = PPM

TPH = TOTAL PETROLEUM HYDROCARBONS

PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT

MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: *Carl Decker*

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: JORGENSEN ENVIRONMENTAL

10374 TRADEMARK STREET, RANCHO CUCAMONGA, CA 91730

VOICE (909) 483-3300 FAX (909) 483-3306

PROJECT: 7091.00

MATRIX: SOIL

SAMPLING DATE: 11/10/98

REPORT TO: Mr. BRIAN T. THORNE

DATE SAMPLES REC'D: 11/10/98

DATE ANALYZED: 11/11-12/98

DATE REPORTED: 11/12/98

METHOD BLANK FOR LAB I.D.: 981110-61 TO -67

PARAMETER	UNIT	SAMPLE RESULT	PQL (X1)	EPA METHOD
TPH-DIESEL RANGE (C10-C12)	MG/KG	ND	10	LUFT/8015M
TPH-GASOLINE RANGE (C4-C10)	MG/KG	ND	0.1	5030/8015M
BENZENE	MG/KG	ND	0.005	5030/8020A
TOLUENE	MG/KG	ND	0.005	5030/8020A
ETHYLBENZENE	MG/KG	ND	0.005	5030/8020A
TOTAL XYLENES	MG/KG	ND	0.010	5030/8020A
MTBE	MG/KG	ND	0.025	5030/8020A
TOTAL LEAD	MG/KG	ND	5.0	3050/6010A

COMMENTS

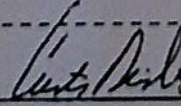
MG/KG = PPM

TPH = TOTAL PETROLEUM HYDROCARBONS

PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PRACTICAL QUANTITATION LIMIT

MTBE = METHYL tert-BUTYL ETHER

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

**Former Norton Air Force Base
San Bernardino, California**



**Operations, Maintenance, and Monitoring
2015 Annual Report**

Final

Contract No.: FA4890-06-D-0007

Task Order: 0006

**Prepared for
Air Force Civil Engineer Center
Joint Base San Antonio Lackland, Texas 78236-9853**

Prepared by



**2485 Natomas Park Drive, Suite 600
Sacramento, California 95833**

February 2016



DEPARTMENT OF THE AIR FORCE
AIR FORCE CIVIL ENGINEER CENTER
JOINT BASE SAN ANTONIO LACKLAND TEXAS

24 February 2015

MEMORANDUM FOR SEE DISTRIBUTION

FROM: AFCEC/CIBW
2261 Hughes Avenue, Suite 155
JBSA Lackland TX 78236-9853

SUBJECT: Operations, Maintenance, and Monitoring 2015 Annual Report, Former Norton
Air Force Base, CA

Attached for your information and records is the Operations, Maintenance, and Monitoring 2015 Annual Report, Former Norton Air Force Base, CA. This report contains two parts: Part 1, Basewide Groundwater Monitoring 2015 Annual Report, and Part 2, IRP Site 2 Landfill Operations, Maintenance, and Monitoring 2015 Annual Report. This document is submitted for information only and does not require a formal review. However, if you have any comments, please provide them by 22 April 2015. All comments received will be addressed accordingly and incorporated into future remedial activities and/or reports as appropriate. For questions or additional information, please contact the undersigned at (210) 395-9420 or Mr. Andy Cramer, CH2M HILL, at (916) 715-2314.

A handwritten signature in black ink that reads "Stanley G. Pehl".

STANLEY G. PEHL, REM
BRAC Environmental Coordinator

Attachment:
Operations, Maintenance, and Monitoring 2015 Annual Report, Former Norton AFB, CA

cc:
Admin Record: Terie Glaspey (CD only)

DISTRIBUTION:
USEPA Region 9, Attn: Nadia Hollan Burke
DTSC, Attn: Stephen Niou
RWQCB, Santa Ana Region, Attn: Patricia Hannon
County of San Bernardino DPH, Attn: Diana Almond
SBIAA/IVDA, Attn: Mike Burrows
SBIAA/IVDA, Attn: Jim Gourley

Final

**Operations, Maintenance,
and Monitoring
2015 Annual Report**

**Former Norton Air Force Base
San Bernardino, California**

Prepared for
Air Force Civil Engineer Center

February 2016



2485 Natomas Park Drive
Suite 600
Sacramento, CA 95833

Contents

Part 1

Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Part 2

IRP Site 2 Landfill Operations, Maintenance, and Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

**Former Norton Air Force Base
San Bernardino, California**



**Basewide Groundwater Monitoring
2015 Annual Report**

Final

Contract No.: FA4890-06-D-0007

Task Order: 0006

**Prepared for
Air Force Civil Engineer Center
Joint Base San Antonio Lackland, Texas 78236-9853**

Prepared by



**2485 Natomas Park Drive, Suite 600
Sacramento, California 95833**

February 2016

Final

Basewide Groundwater Monitoring 2015 Annual Report

**Former Norton Air Force Base
San Bernardino, California**

Prepared for
Air Force Civil Engineer Center

February 2016



2485 Natomas Park Drive
Suite 600
Sacramento, CA 95833

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B	Second and Fourth Quarter 2015 Laboratory Analytical Reports
C	Well Hydrographs/VOC Concentration Graphs

Acronyms and Abbreviations

17th Annual GDTR, Vol. 1	<i>Seventeenth Annual (August 2008–July 2009) Groundwater Data Trends Report, Basewide Groundwater Monitoring and Water Supply Contingency Policy, Volume 1</i>
17th Annual GDTR, Vol. 2	<i>Seventeenth Annual (August 2008–July 2009) Groundwater Data Trends Report, Basewide Groundwater Monitoring and Water Supply Contingency Policy, Volume 2</i>
µg/L	microgram(s) per liter
AFB	Air Force Base
bgs	below ground surface
BRAC	Base Realignment and Closure
CBA	Central Base Area
COC	contaminant of concern
DCE	dichloroethene
DTSC	California Department of Toxic Substances Control
EPA	U.S. Environmental Protection Agency
GWMP	groundwater monitoring program
IRP	Installation Restoration Program
MCL	maximum contaminant level
NBA	Northeast Base Area
PCE	tetrachloroethene
PDB	passive diffusion bag
QC	quality control
RWQCB	Regional Water Quality Control Board
SVOC	semivolatile organic compound
TCE	trichloroethene
VOC	volatile organic compound
WW	Weather Warehouse

Introduction

1.1 Purpose

Groundwater samples and water level measurements at the former Norton Air Force Base (AFB) (Figure 1-1) are used to evaluate the continued effectiveness of past remediation efforts and the potential impacts to groundwater and nearby water supply wells. The *Central Base Area Record of Decision* (Air Force Base Conversion Agency, 1993) states that groundwater will be remediated to concentrations at or lower than the more restrictive of the U.S. Environmental Protection Agency (EPA) or State of California maximum contaminant level (MCL) for each contaminant. The groundwater pump-and-treat systems and the soil vapor extraction system were officially decommissioned in 2006. This report summarizes the groundwater data collected in second and fourth quarter 2015 and makes recommendations for future groundwater sampling at the former Norton AFB. All sampling was conducted in accordance with the *Final Sampling and Analysis Plan* (Earth Tech, 2001) for the Basewide Groundwater Monitoring Program (GWMP) and Water Supply Contingency Policy.

The Seventeenth Annual (August 2008–July 2009) Groundwater Data Trends Report, Basewide Groundwater Monitoring and Water Supply Contingency Policy, Volume 1 (17th Annual GDTR, Vol. 1) (AECOM, 2009) contains background information about the geology, hydrogeology, contamination sources, and remedial history at the former Norton AFB. Historical groundwater analytical data from active monitoring wells are presented in Appendix A. As recommended in *the Seventeenth Annual (August 2008–July 2009) Groundwater Data Trends Report, Basewide Groundwater Monitoring and Water Supply Contingency Policy, Volume 2* (17th Annual GDTR, Vol. 2) (CH2M HILL, 2009), beginning in fourth quarter 2009, groundwater samples were collected using passive diffusion bag (PDB) samplers at all wells where dedicated pumps were not installed. PDBs are an accurate, accepted, cost-effective way to collect groundwater samples for most volatile organic compounds (VOCs).

In an effort to collect groundwater samples during periods of highest and lowest groundwater elevations (the second and fourth quarters of the year, respectively), the sampling was shifted in 2010 as follows: (1) wells sampled on an annual basis are sampled in the second quarter instead of the third quarter, and (2) wells sampled on a semiannual basis are sampled in the second and fourth quarters instead of the first and third quarters (CH2M HILL, 2009).

Beginning in 2014, data collected during the second calendar quarter of the year are presented in a semiannual letter report, including a figure with groundwater elevations and a table with analytical results. Data collected during the second and fourth quarters are presented in a Basewide Groundwater Monitoring Annual Report, including an update of contaminant concentrations and trends, water table elevations and trends, and recommendations for future sampling. Annual and semiannual reports are submitted by the end of the quarter following the last sampling event.

1.2 Report Organization

This monitoring report includes in the following sections:

- **Section 1: Introduction** provides a brief overview of the background, purpose, and organization of this report.
- **Section 2: Site Updates since the Last Reporting Period** provides data and discussion of groundwater samples collected in 2015.
- **Section 3: Quality Assurance/Quality Control** provides an evaluation of data quality.
- **Section 4: References** provides references cited within this report.
- **Appendix A: Summary of Historical Groundwater Analytical Results** presents groundwater sampling results from all active groundwater wells.
- **Appendix B: Second and Fourth Quarter 2015 Laboratory Analytical Reports**
- **Appendix C: Well Hydrographs/VOC Concentration Graphs** provides time-series plots of water table elevations and VOC concentrations.

SECTION 2

Site Updates since the Last Reporting Period

This section presents a brief description of the conceptual model for each site, the results of 2015 groundwater monitoring, and recommendations for future groundwater monitoring. Figures 2-1 and 2-2 show the location of wells that are part of the basewide sampling program, as well as groundwater surface elevation contours for second and fourth quarter 2015, respectively. Wells recommended for sampling and water level measurements in second and fourth quarter 2015 were identified in the *Operations, Maintenance, and Monitoring 2014 Annual Report* (CH2M HILL, 2015) and revised during the May 2015 Base Realignment and Closure (BRAC) Cleanup Team Meeting. Table 2-1 presents the 2015 well sampling analytical results for the three primary contaminants (cis-1,2-dichloroethene [DCE], tetrachloroethene [PCE], and trichloroethene [TCE]) and is organized by Installation Restoration Program (IRP) site and base geographic area. In addition, the 2015 laboratory analytical reports are presented in Appendix B. Table 2-1 also shows depth to water and water table elevation in all wells that are part of the water level monitoring program. Table 2-2 presents the proposed sampling for all monitoring wells currently in the sampling program. The table also includes all wells for which water levels are currently measured. Proposed sampling of monitoring wells are evaluated and updated in this report. Table 2-2 also identifies all remaining monitoring wells, including those previously approved or currently recommended for decommissioning. MW-215, MW-247, and MW-263 were recommended for decommissioning, along with three of the Site 17 wells (MW-20, MW-63R, and MW-101R), in the *2014 Well Decommissioning Work Plan* (CH2M HILL, 2014). The California Department of Toxic Substances Control (DTSC) and the Santa Ana Regional Water Quality Control Board (RWQCB) had no comments on the work plan; however, the comments from the EPA on the Site 17 wells are still being resolved. Decommissioning of approved wells will be scheduled and completed in 2016.

As shown on the monitoring well hydrographs in Appendix C, most monitoring wells at the former Norton AFB have exhibited steady downward trends in water elevations (90 to 110 feet) over the past 16 years, with seasonal increases in water levels in the second quarter of each year; however, in 2015, the expected seasonal increase in water levels was not observed. The normal seasonal increase occurs near the end of the rainy season, which usually lasts from November through April. However, that does not necessarily mean that the increase in water table elevations is a direct consequence of infiltrating rainwater or basin recharge resulting from runoff from the San Bernardino Mountains. Rather, the timing of the increase in water table elevations is more likely related to the seasonal changes in pumping rates of nearby municipal and agricultural wells. Rainwater infiltration likely plays a small role at the former Norton AFB, where average annual rainfall is approximately 13.3 inches (between 1900 and 2015) (WW, 2016). Even a sustained rainstorm that results in ponded water is not likely to result in infiltration into the soil of more than a few feet, much of which would be pulled back to the surface by capillary forces and would evaporate. However, infiltration from the Santa Ana River channel to the immediate south of the former Norton AFB could result in localized, temporary groundwater mounding in the perched zones and the regional aquifer during periods of sustained high flow. It is expected

that the water table will follow the general falling trend in the foreseeable future because of stresses on the aquifer from municipal and agricultural pumping. The former Norton AFB has experienced 10 years of below-average annual rainfall between 2006 and 2015, with the exception of 2010. The total precipitation in 2015 was approximately 7.5 inches (WW, 2016).

2.1 Water Level Measurements in 2015

2.1.1 Second Quarter 2015

Water level measurements were collected from a total of 22 monitoring wells, of which 13 were dry, at the former Norton AFB during second quarter 2015 (Table 2-1). In comparison to fourth quarter 2014, water levels ranged from 4.4 feet lower to 0.8 foot higher in the Northeast Base Area (NBA), from 2.2 feet to 4.7 feet lower in the Central Base Area (CBA), and 3.8 feet lower in the one off-base well (MW-301). Basewide water levels in 2015 were approximately 2.7 feet lower, on average, in second quarter compared to fourth quarter. Stated average changes exclude wells that were dry. All wells that were dry during fourth quarter 2014 were still dry in second quarter 2015. One exception to the general trend is MW-403, where water levels have increased 0.8 foot since fourth quarter 2014.

Compared to second quarter 2014, water levels decreased up to 12.8 feet in wells from NBA, CBA, and MW-301 in second quarter 2015 or the well went dry. One exception is MW-403, where the well was dry in second quarter 2014 and the water level increased to 1.6 feet above the bottom of the screen in second quarter 2015. Hydrographs for wells with sufficient data available are presented in Appendix C.

2.1.2 Fourth Quarter 2015

Water level measurements were collected from a total of 22 monitoring wells at the former Norton AFB during fourth quarter 2015, 12 of which were dry (Table 2-1). In comparison to second quarter 2015, water levels ranged from 6.3 feet lower to 0.1 foot higher in the NBA, from 4.3 feet to 7.2 feet lower in the CBA, and 7.5 feet lower in the one off-base well (MW-301). Basewide water levels in 2015 were approximately 5.5 feet lower, on average, in fourth quarter compared to second quarter. Stated average changes exclude wells that were dry. All wells that were dry during second quarter 2015 were still dry in fourth quarter 2015, with one exception. Perched-zone well (MW-63R) from Site 17 was dry in second quarter 2015 and the water level increased to 0.7 foot above the bottom of the screen in fourth quarter 2015.

Compared to fourth quarter 2014, water levels have generally decreased up to 13.5 feet in wells from NBA, CBA, and off-base in fourth quarter 2015. Because of the continued drought conditions, the normal seasonal increase in second quarter was not observed in 2015. The one exception is MW-403, where water levels have increased slightly over the last three monitoring events. It is possible there is an isolated source of water near MW-403 such as recharge from the stormwater basin or a leaking water line. MW-402, which is screened at a similar depth and located 300 feet north of MW-403, has remained dry since fourth quarter 2011. Hydrographs for wells with sufficient data available are presented in Appendix C.

2.2 Northeast Base Area

The main contaminant of concern in groundwater at the NBA is PCE. Historically, two areas affected by PCE have been characterized in the NBA. One was downgradient and crossgradient of Site 2 Landfill and is referred to as the primary PCE plume; the second area was approximately 0.5 mile west of this plume and is referred to as the secondary PCE plume.

The Site 2 Landfill is located near the northeastern corner of the NBA (see Figure 2-1). Landfill monitoring wells MW-402, MW-403, and MW-404 have been dry since 2008, with a few exceptions. The RWQCB agreed in August 2009 that the landfill monitoring wells would not have to be replaced, but should be maintained to monitor for potential impacts resulting from the paved landfill cover. The entire surface of Site 2 Landfill was paved with asphalt in 2010 so that it could be used for vehicle storage. In the January 2013 annual BRAC Cleanup Team meeting, the RWQCB requested that, if sufficient water is present, representative samples should be collected and analyzed for those constituents identified for the *IRP Site 2 Landfill Closure and Postclosure Plan* (IT Corporation, 1998) 5-year event. The constituents to be analyzed include VOCs, semivolatile organic compounds (SVOCs), metals, anions, pesticides, herbicides, polychlorinated biphenyls, pH, and total dissolved solids. Although the water level in MW-403 has been gradually increasing since fourth quarter 2014, the amount of water present in the well has been insufficient to collect a sample. Therefore, MW-402, MW-403, and MW-404 are scheduled to be sampled for these constituents in second quarter 2016 if sufficient water for sampling is available.

Decommissioning of NBA wells MW-157, MW-248, and MW-272 was previously established in the 17th Annual GDTR, Vol. 1 (AECOM, 2009). Water level monitoring will continue at each of the wells, if groundwater is present, until they are decommissioned. In addition, water levels continue to be measured at D-zone well MW-275.

2.2.1 MW-113

The *Basewide Record of Decision* (Air Force Real Property Agency, 2005) selected No Further Action for the NBA groundwater plumes because the suspected source of PCE in the west plume was off-base to the north. Groundwater samples have been collected and analyzed since 1991 from MW-113, which is the only well in the NBA that is currently part of the sampling program. The sampling frequency for MW-113 was increased to semiannual during the May 2015 BRAC Cleanup Team Meeting (Table 2-2).

In 2015, B-zone well MW-113 was dry during the second and fourth quarters, and no samples were collected. The PCE results for annual samples collected from 2006 to 2009 ranged from 5.2 to 7.6 micrograms per liter ($\mu\text{g}/\text{L}$). The annual samples collected in second quarter 2010 through 2013 had PCE concentrations ranging from 1.0 to 3.8 $\mu\text{g}/\text{L}$ with a downward trend. However, in second quarter 2014, the PCE rebounded with a concentration of 7.4 $\mu\text{g}/\text{L}$.

2.3 Central Base Area

The main contaminants of concern in groundwater at the CBA historically have been TCE and, to a lesser extent, cis-1,2-DCE. Concentrations were significantly reduced by the former CBA groundwater pump-and-treat and soil vapor extraction systems.

Monitoring of on-base and off-base wells has shown that the TCE plume with concentrations greater than the MCL (5 µg/L) originating at the former Norton AFB has been limited to the shallower zones of the aquifer, closest to the water table. As the water table continues to fall, the zone of the aquifer with elevated TCE concentrations falls with it, resulting in increased TCE concentrations in samples from successively deeper wells near the historical source areas north of the flight line that are screened across or near the water table. As discussed in the *Operations, Maintenance, and Monitoring 2009 Annual Report* (CH2M HILL, 2010), declining water levels in B-zone wells indicated the potential for increases in TCE concentrations at associated C-zone wells MW-261 (previously co-located with decommissioned MW-191) and MW-401 (directly downgradient from MW-263). More recently, declining water levels are evident in C-zone wells with the potential for TCE increases at associated D-zone wells. For the deeper wells, dissolved VOCs in groundwater are likely to be attenuated by one or more of the following processes as the water table drops:

- Sorption onto soil particles that are left behind in the vadose zone
- Volatilization at the water table and into the vadose zone
- Confinement in vadose zone pore water
- Chemical and biological degradation processes within the groundwater

MW-274 is a C-zone well previously used for monitoring groundwater upgradient of the Industrial Waste Line. The monitoring of MW-274 was discontinued as the well no longer has a monitoring objective. MW-274 was inadvertently sampled in second quarter 2015, and as with previous years, no VOCs were detected in the groundwater sample. No further sampling is scheduled at MW-274; however, water levels will continue to be measured.

Three B-zone wells (MW-215, MW-247, and MW-263) were previously approved for decommissioning and were dry in 2015. These wells are not discussed further.

D-zone well MW-288 has not been regularly sampled because sufficient data have been collected from C-zone well MW-261, located immediately to the south. Water levels continue to be measured at MW-288, and the well may be sampled in the future if nearby C-zone well MW-261 goes dry.

Following is a discussion of 2015 sampling results and proposed sampling from the CBA wells, starting in the north and working toward the south (see Figure 2-1). Table 2-2 lists all existing wells, including those that are no longer monitored or sampled. The graphs in Appendix C show water level and analytical results over time.

2.3.1 MW-261

C-zone well MW-261 was sampled in second quarter 2015, as planned. However, a sample could not be collected in fourth quarter 2015 because water levels decreased significantly to below the bottom of the PDB. The PDB will be lowered to the bottom of the screen and

MW-261 will continue to be sampled semiannually, with the next sample to be collected in second quarter 2016 (Table 2-2). If the water level decreases below the bottom of the MW-261 well screen, D-zone well MW-288 will be sampled instead.

MW-261 (screened from 177 to 197 feet below ground surface) is co-located with decommissioned (2009) B-zone well MW-191 (screened from 127 to 142 feet below ground surface). MW-191 was dry following the July 2006 sampling event, when a TCE concentration of 14 µg/L was detected. Before 2010, TCE concentrations in samples collected from MW-261 had not exceeded the MCL since April 1994. Between fourth quarter 2010 and second quarter 2014, TCE concentrations fluctuated between 2.2 and 7.3 µg/L. However, during fourth quarter 2013, the TCE concentration decreased significantly to non-detect. In second quarter 2015, TCE concentrations were 4.9 µg/L (native sample) and 5.5 µg/L (field duplicate sample).

2.3.2 MW-184

C-zone well MW-184 is sampled annually. However, MW-184 was not sampled in second quarter 2015 because water levels decreased below the bottom of the PDB. The PDB will be lowered to the bottom of the screen and MW-184 will continue to be sampled annually if sufficient water is present, with the next sample to be collected in second quarter 2016 (Table 2-2).

Historically, MW-184 groundwater samples have had TCE concentrations of less than 1 µg/L since sampling began in October 1991, except for the groundwater sample collected in fourth quarter 2010, when it had a concentration of 1.3 µg/L.

2.3.3 MW-401

C-zone well MW-401 was sampled in second and fourth quarter 2015, as planned.

The MW-401 TCE concentrations remained less than half the MCL during quarterly sampling from first quarter 2006 through fourth quarter 2009. Nine of the eleven samples collected between second quarter 2010 and second quarter 2015 contained TCE at concentrations exceeding the MCL and ranged from 6.6 to 12.0 µg/L, including the recent result of 8.3 µg/L in second quarter 2015. However, in fourth quarter 2015, TCE was detected at a concentration of 0.95 µg/L, which is significantly less than the MCL.

MW-401 is located directly downgradient from MW-263. The maximum TCE concentration reported at MW-401 (12 µg/L) was the same as the TCE concentration reported at MW-263 before the well went dry. MW-401 will continue to be sampled semiannually, with the next sample to be collected in second quarter 2016 (Table 2-2). The groundwater elevation decreased significantly at MW-401 during 2015, and only one-half of the screen was submerged by late 2015. The PDB in MW-401 will be lowered to the bottom of the well screen to facilitate continued sample collection if sufficient water is present.

2.3.4 MW-97

C-zone well MW-97 was sampled in early third quarter 2015 as this well was not accessible when the other samples were collected in second quarter 2015. The sampling frequency for MW-97 was decreased to annual during the May 2015 BRAC Cleanup Team Meeting, with the next sample to be collected in second quarter 2016 (Table 2-2). MW-97 samples have had

no detections of VOCs since the third quarter 1992. Data from this C-zone well will continue to be used to monitor possible TCE movement from the area of MW-401.

2.3.5 MW-289

D-zone well MW-289 is sampled annually. The well was sampled in second quarter 2015, as planned.

MW-289 is located at the southwestern corner of the former Norton AFB. TCE concentrations have remained less than the MCL from 1996 through 2015. MW-289 is located downgradient from MW-401 (Figure 2-1), where the TCE concentration has exceeded the MCL. Because TCE concentrations in MW-289 remain less than the MCL, the well will continue to be sampled annually, with the next sample to be collected in second quarter 2016 (Table 2-2).

2.4 IRP Site 17

IRP Site 17 is the former drummed waste storage area/waste fuel and solvent sump within the former Industrial Waste Treatment Plant in the southern portion of the Base. Sampling of the perched wells at the site was discontinued after second quarter 2013 (CH2M HILL, 2013a). The wells were recommended for decommissioning in the *Operations, Maintenance, and Monitoring 2013 Semiannual Report* (CH2M HILL, 2013a). MW-152, MW-154, and MW-109 were decommissioned in December 2013 according to the approved *Well Decommissioning Work Plan* (CH2M HILL, 2013b). The three remaining perched zone wells (MW-20, MW-63R, and MW-101R) were temporarily retained at the request of EPA and DTSC, pending a final closure determination for Site 17. In addition, B-zone well MW-207 remains at Site 17. The four wells are checked for the presence of water semiannually. During second quarter 2015, all four wells were dry. During fourth quarter 2015, three of the four wells were dry; MW-63R contained less than a foot of water.

SECTION 3

Quality Assurance/Quality Control

Analytical data from the Norton Basewide GWMP were assessed in accordance with the procedures and specifications contained in the Norton Basewide Quality Assurance Project Plan from the GWMP *Sampling and Analysis Plan* (Earth Tech, 2001). This section and Table 3-1 summarize the overall results and quality of the data for the second quarter and fourth quarter 2015 sampling events. Data flags were assigned according to the quality control (QC) acceptance limits defined in the Norton Basewide Quality Assurance Project Plan as follows:

- J = Analyte concentration was considered an estimated value because one or more QC specifications were not met, or concentration was greater than the method detection limit but less than the project quantitation limit (low-level detects).
- R = Rejected result; identification and/or quantitation could not be verified because critical QC specifications were not met.
- U = Analyte was not detected.
- UJ = Analyte was not detected. The sample quantitation limit is estimated.
- UR = Analyte was not detected. Data were rejected for use.

The data collected from the second and fourth quarter 2015 sampling events were of acceptable quality. Of 420 reported results, 4 data points were qualified as estimated because of low level detects (approximately 1.0 percent). There were no data points qualified or rejected due to QC exceedances. The data were 100 percent complete, and the quality of the analytical program and laboratory data was sufficient to meet the project data quality objectives.

SECTION 4

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Tables

TABLE 2-1
 Second and Fourth Quarter 2015 Water Levels and VOC Data
 Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Well Number	Zone	Q2 2015			Q4 2015			Q2 2014		Q4 2014		Q2 2015		Q4 2015		Water Level Change	Water Level Change	Water Level Change	Water Level Change		
		cis-1,2-DCE (µg/L) [MCL=6 µg/L]	TCE (µg/L) [MCL=5 µg/L]	PCE (µg/L) [MCL=5 µg/L]	cis-1,2-DCE (µg/L) [MCL=6 µg/L]	TCE (µg/L) [MCL=5 µg/L]	PCE (µg/L) [MCL=5 µg/L]	Screened Interval (bgs)	TOC Elevation (feet amsl)	Depth to Water (feet)	Water Table Elevation (feet amsl)	Depth to Water (feet)	Water Table Elevation (feet amsl)	Depth to Water (feet)	Water Table Elevation (feet amsl)	Depth to Water (feet)	Water Table Elevation (feet amsl)	Q4 2014 to Q2 2015 (feet)	Q2 2014 to Q2 2015 (feet)	Q2 2015 to Q4 2015 (feet)	Q4 2014 to Q4 2015 (feet)
Northeast Base Area																					
MW-113	B	NS	NS	NS	NS	NS	NS	196-206	1,142.41	195.70	946.71	203.67	938.74	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
MW-157	B	NS	NS	NS	NS	NS	NS	208-218	1,191.82	212.43	979.39	NM ^a	NM ^a	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
MW-248	B	NS	NS	NS	NS	NS	NS	165-185	1,121.40	184.05	937.35	186.26	935.14	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
MW-272	B	NS	NS	NS	NS	NS	NS	189-209	1,162.08	203.05	959.03	NM ^a	NM ^a	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
MW-275	D	NS	NS	NS	NS	NS	NS	235.2-255.2	1,121.38	189.35	932.03	197.75	923.63	202.17	919.21	208.44	912.94	-4.42	-12.82	-6.27	-10.69
MW-402	B	NS	NS	NS	NS	NS	NS	150-190	1,169.14	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
MW-403	B	NS	NS	NS	NS	NS	NS	149-189	1,169.30	DRY	DRY	188.10	981.20	187.34	981.96	187.22	982.08	0.76	1.66	0.12	0.88
MW-404	B	NS	NS	NS	NS	NS	NS	156-196	1,183.65	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
Central Base Area																					
MW-97	C	ND	ND	ND	NS	NS	NS	178-188	1,062.17	165.05	895.12	168.00	892.17	NM	NM	181.53	878.64	NM	NM	NM	-13.53
MW-184	C	NS ^b	NS ^b	NS ^b	NS	NS	NS	171.5-191.5	1,085.61	176.00	909.61	180.15	905.46	184.83	900.78	NM	NM	-4.68	-8.83	NM	NM
MW-215	B	NS	NS	NS	NS	NS	NS	140-155	1,085.27	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-247	B	NS	NS	NS	NS	NS	NS	142.6-162.6	1,102.16	DRY	DRY	NM ^a	NM ^a	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-261	C	0.27J {ND}	4.9 {5.5}	ND {ND}	NS ^b	NS ^b	NS ^b	177-197	1,089.75	177.51	912.24	183.40	906.35	185.67	904.08	191.62	898.13	-2.27	-8.16	-5.95	-8.22
MW-263	B	NS	NS	NS	NS	NS	NS	140.2-155.2	1,081.94	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-274	C	ND	ND	ND	NS	NS	NS	201-221	1,101.90	180.90	921.00	NM ^a	NM ^a	188.27	913.63	192.61	909.29	DRY	-7.37	-4.34	DRY
MW-288	D	NS	NS	NS	NS	NS	NS	225-285	1,090.18	177.68	912.50	183.50	906.68	185.89	904.29	191.68	898.50	-2.39	-8.21	-5.79	-8.18
MW-289	D	ND	1.3	0.36 J	NS	NS	NS	216.1-236.1	1,057.11	160.04	900.07	166.00	894.11	168.61	891.50	175.79	884.32	-2.61	-8.57	-7.18	-9.79
MW-401	C	0.58	8.3	0.40 J	ND	0.95	ND	175-190	1,071.56	170.92	900.64	174.49	897.07	176.66	894.90	183.51	888.05	-2.17	-5.74	-6.85	-9.02
IRP Site 17																					
MW-20	P	NS	NS	NS	NS	NS	NS	10-30	1,059.81	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-63R	P	NS	NS	NS	NS	NS	NS	25-40	1,059.82	DRY	DRY	DRY	DRY	DRY	DRY	39.35	1020.47	DRY	DRY	DRY	DRY
MW-101R	P	NS	NS	NS	NS	NS	NS	20-50	1,059.58	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-207	B	NS	NS	NS	NS	NS	NS	125-140	1,064.06	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Off-base																					
MW-301	C	NS	NS	NS	NS	NS	NS	180-200	1,049.78	155.12	894.66	160.20	889.58	163.95	885.83	171.48	878.30	-3.75	-8.83	-7.53	-11.28

^a Well was inaccessible for measurements during the relevant quarter.

^b Well was not sampled because the water level had dropped below the bottom of the passive diffusion bag sampler.

Notes:
 { } = field duplicate result
 µg/L = microgram(s) per liter
 amsl = above mean sea level
 B = groundwater zone approximately 50 feet below top of upper aquifer
 bgs = below ground surface
 C = groundwater zone approximately 100 feet below top of upper aquifer
 D = groundwater zone approximately 150 feet below top of upper aquifer
 DCE = dichloroethene
 IRP = Installation Restoration Program
 J = estimated value
 MCL = maximum contaminant level
 ND = not detected
 NM = not measured
 NS = not scheduled for sampling or insufficient water to sample
 P = perched groundwater zone
 PCE = tetrachloroethene
 Q# = quarter
 TCE = trichloroethene
 TOC = top of casing
 VOC = volatile organic compound

TABLE 2-2
Proposed Groundwater Sampling
Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Well Number	GW Zone	Water Levels	Groundwater Sampling by Quarter				Analyses	Rationale
			Q2/16	Q4/16	Q2/17	Q4/17		
Northeast Base Area								
MW-113	B	X	X	X	X	X	VOCs NBA PCE secondary plume well	
MW-157	B	X					Water level measurements only; approved for decommissioning	
MW-248	B	X					Water level measurements only; approved for decommissioning	
MW-272	B	X					Water level measurements only; approved for decommissioning	
MW-275	D	X					Water level measurements only	
MW-402	B	X	X				Landfill No. 2; sample for 40 CFR 258 constituents per 5-year monitoring requirements if sufficient water	
MW-403	B	X	X				Landfill No. 2; sample for 40 CFR 258 constituents per 5-year monitoring requirements if sufficient water	
MW-404	B	X	X				Landfill No. 2; sample for 40 CFR 258 constituents per 5-year monitoring requirements if sufficient water	
Central Base Area								
MW-97	C	X	X		X		VOCs Downgradient migration of TCE plume	
MW-184	C	X	X		X		VOCs Vertical migration of TCE plume	
MW-215	B	X					Water level measurements only; approved for decommissioning	
MW-247	B	X					Water level measurements only; approved for decommissioning	
MW-261	C	X	X	X	X	X	VOCs Vertical migration of TCE plume	
MW-263	B	X					Water level measurements only; approved for decommissioning	
MW-274	C	X					Water level measurements only	
MW-288	D	X					Water level measurements only, unless MW-261 is dry, then sample to evaluate vertical migration of TCE plume	
MW-289	D	X	X		X		VOCs TCE plume	

TABLE 2-2
Proposed Groundwater Sampling
Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Well Number	GW Zone	Water Levels	Groundwater Sampling by Quarter				Analyses	Rationale
			Q2/16	Q4/16	Q2/17	Q4/17		
MW-401	C	X	X	X	X	X	VOCs	Vertical migration of TCE plume
IRP Site 17								
MW-20	P	X						Water level measurements only; well recommended for decommissioning
MW-63R	P	X						Water level measurements only; well recommended for decommissioning
MW-101R	P	X						Water level measurements only; well recommended for decommissioning
MW-207	B	X						Water level measurements only
Off-base								
MW-300	B							
MW-301	C	X						Water level measurements only; well transferred to Lockheed Martin
MW-304	A							
MW-305	B							
MW-306	C							
MW-307	D							
MW-313	B							
MW-314	D							
MW-315	C							
MW-317	B							Well approved for decommissioning
MW-318	C							Well approved for decommissioning
MW-319	D							
MW-320	A							
MW-321	B							
MW-322	C							

TABLE 2-2
Proposed Groundwater Sampling
Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Well Number	GW Zone	Water Levels	Groundwater Sampling by Quarter				Analyses	Rationale
			Q2/16	Q4/16	Q2/17	Q4/17		
MW-323	D							
MW-325	B							
MW-326	C							
MW-405	C							
MW-406	D							
MLW-1	MLW							
MLW-2	MLW							
MLW-3	MLW							
MLW-4	MLW							
MLW-5	MLW							
MLW-6	MLW							

Notes:

- B = groundwater zone approximately 50 feet below top of upper aquifer
- C = groundwater zone approximately 100 feet below top of upper aquifer
- CFR = Code of Federal Regulations
- D = groundwater zone approximately 150 feet below top of upper aquifer
- GW = groundwater
- IRP = Installation Restoration Program
- MLW = multi-level well
- NBA = Northeast Base Area
- P = perched groundwater zone
- PCB = polychlorinated biphenyl
- PCE = tetrachloroethene
- Q### = quarter/year
- SVOC = semivolatile organic compound
- TCE = trichloroethene
- TDS = total dissolved solids
- VOC = volatile organic compound

TABLE 3-1
 Quality Control Summary for Second and Fourth Quarter 2015 Groundwater Sampling
Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Method	Samples per Method ^a	Number of Reported Results	Estimated Results ^b		Rejected Results ^c		Percent Completeness	
			No.	%	No.	%	No.	% ^d
SW8260B	7	420	4	1.0	0	0.0	420	100.0

Notes:

^a Includes field duplicate and normal samples.

^b Results flagged J or UJ.

^c Results flagged R or UR.

^d % Complete = ([reported results-unusable results]/reported results)*100 as defined in the Basewide GWMP Section 9.4.2.4 (Earth Tech, 2001).

GWMP = groundwater monitoring program

J = estimated value

R = rejected result

UJ = analyte was not detected; the sample quantitation limit is estimated

UR = analyte was not detected; data were rejected for use

Figures

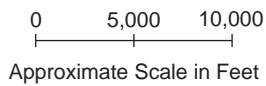
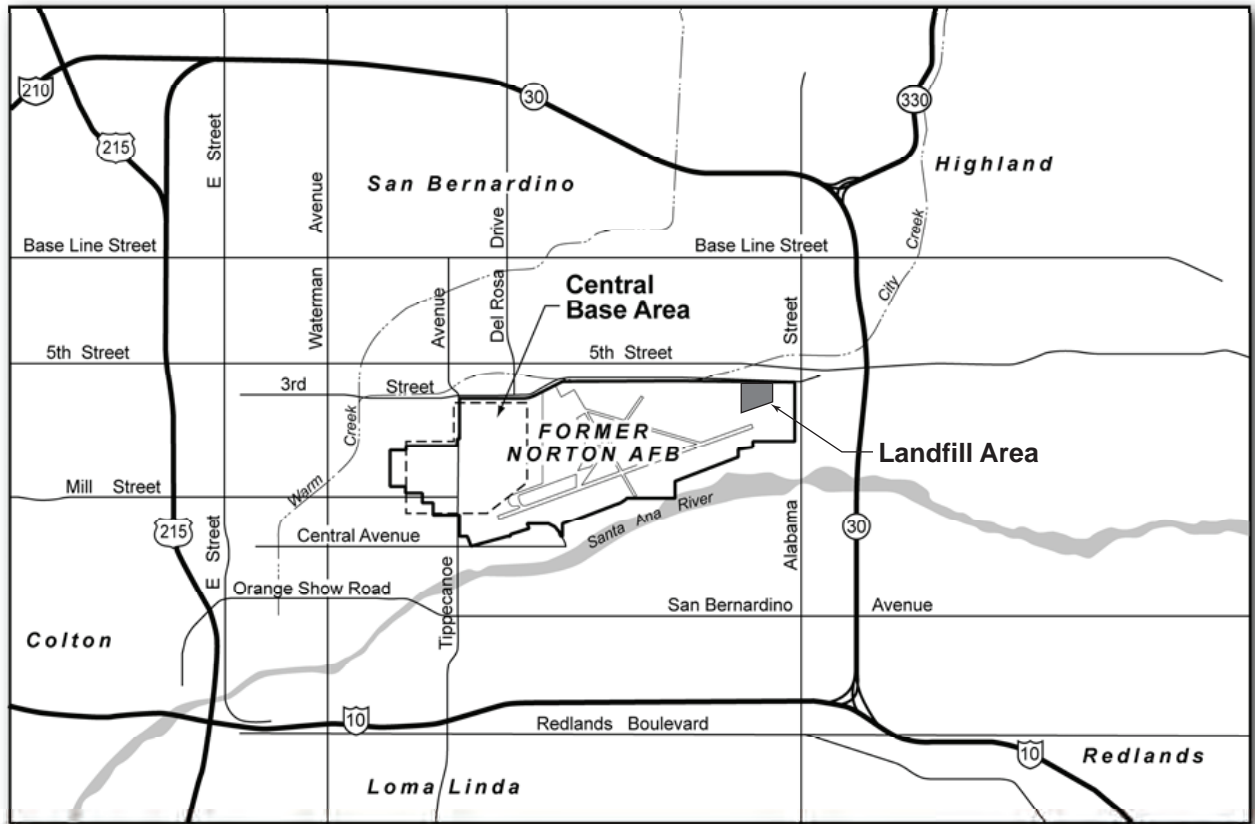
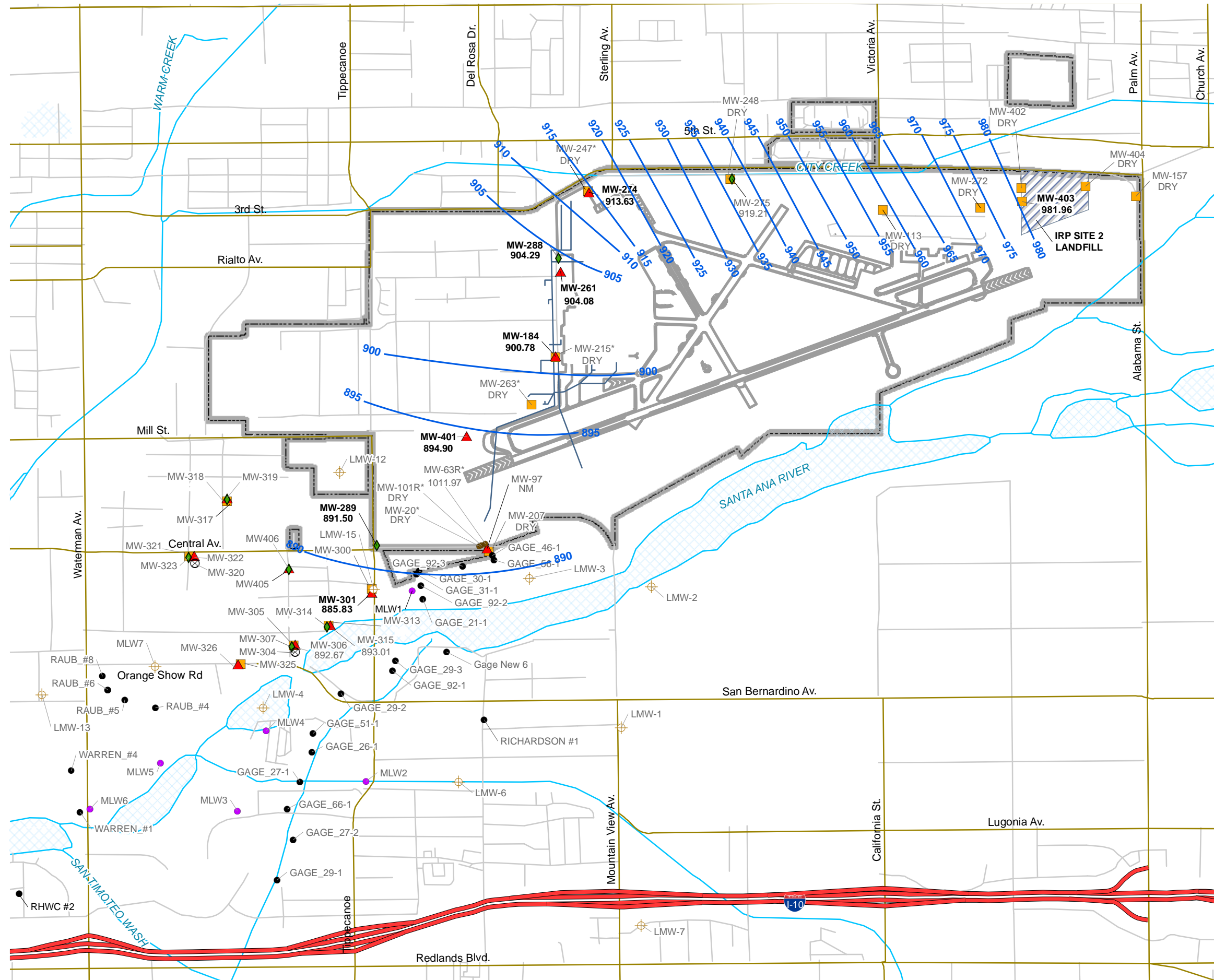


FIGURE 1-1
Location of Former Norton AFB
 Basewide Groundwater Monitoring 2015 Annual Report
 Former Norton Air Force Base, San Bernardino, California



- LEGEND**
- MONITORING WELL (PERCHED)
 - ⊗ MONITORING WELL (A ZONE)
 - MONITORING WELL (B ZONE)
 - ▲ MONITORING WELL (C ZONE)
 - ◆ MONITORING WELL (D ZONE)
 - MULTILEVEL WELL
 - PRODUCTION WELL
 - ⊕ LOCKHEED MARTIN MULTI-PORT MONITORING WELL (APPROXIMATE LOCATION)
 - GROUNDWATER CONTOURS - 2ND QUARTER 2015
 - IWL LINE
 - FREEWAY
 - ROADS
 - WATERWAYS
 - ▭ PROJECT BOUNDARY

Notes:
 * = Wells planned for decommissioning in 2016
 NM = not measured

Groundwater elevations are measured in feet above mean sea level.
 Wells not used for groundwater surface contouring are shown in grey.
 Groundwater elevation for MW-97 was not measured.

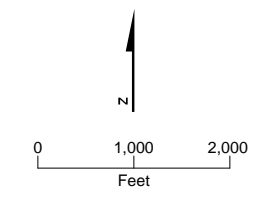
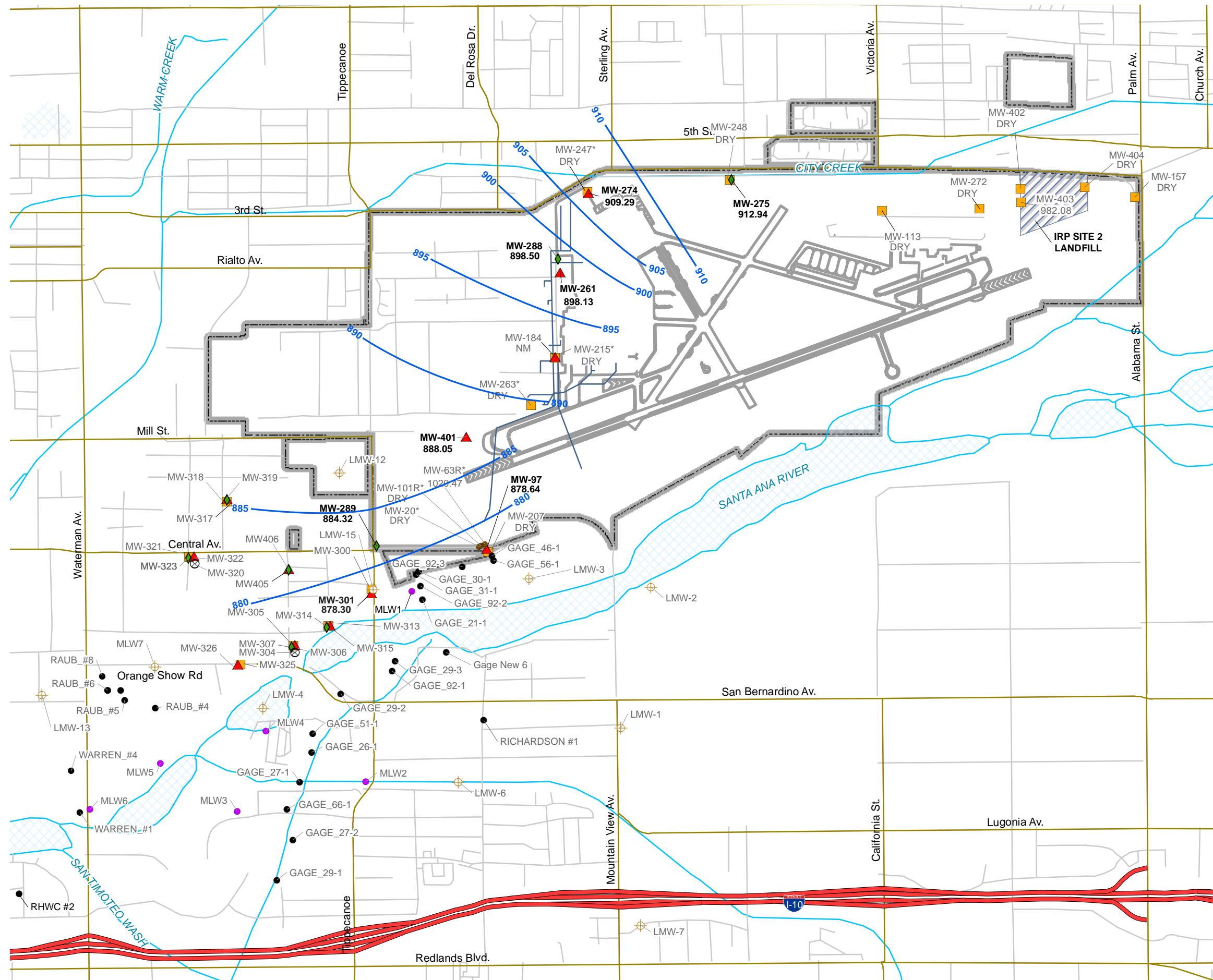


FIGURE 2-1
Well Locations and Second Quarter 2015 Groundwater Elevations
 Basewide Groundwater Monitoring 2015 Annual Report
 Former Norton Air Force Base, San Bernardino, California



LEGEND

- MONITORING WELL (PERCHED)
- ⊗ MONITORING WELL (A ZONE)
- MONITORING WELL (B ZONE)
- ▲ MONITORING WELL (C ZONE)
- ◆ MONITORING WELL (D ZONE)
- MULTILEVEL WELL
- PRODUCTION WELL
- ⊕ LOCKHEED MARTIN MULTI-PORT MONITORING WELL (APPROXIMATE LOCATION)
- GROUNDWATER CONTOURS - 4TH QUARTER 2015
- IWL LINE
- FREEWAY
- ROADS
- WATERWAYS
- ▭ PROJECT BOUNDARY

Notes:
 * = Wells planned for decommissioning in 2016
 NM = not measured
 Groundwater elevations are measured in feet above mean sea level.
 Wells not used for groundwater surface contouring are shown in grey.

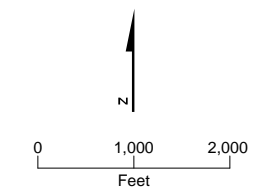


FIGURE 2-2
Well Locations and Fourth Quarter 2015 Groundwater Elevations
 Basewide Groundwater Monitoring 2015 Annual Report
 Former Norton Air Force Base, San Bernardino, California

Appendix A
Summary of Historical Groundwater
Analytical Results

Appendix A

Summary of Historical Groundwater Analytical Results

Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-97	C	178-188	Jul-92	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Oct-92	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Jan-93	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Jan-94	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-94	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Jan-96	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-96	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Jul-96	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Oct-96	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Jan-97	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-97	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Jul-97	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Oct-97	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Jan-98	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-98	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-99	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-00	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-01	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-02	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-03	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-04	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Oct-04	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-05	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Jul-06	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Jul-07	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Oct-08	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Jul-09	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Dec-09	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-10	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-10	FD	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Nov-11	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-12	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Nov-12	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Nov-12	FD	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-13	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Dec-13	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Apr-14	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Dec-14	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-97	C	178-188	Jul-15	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-113	B	196-206	Jun-91	N	SW8260B	Trichloroethene	2.8		µg/L
MW-113	B	196-206	Jun-91	N	SW8260B	Cis-1,2-Dichloroethene	6.0		µg/L
MW-113	B	196-206	Jun-91	N	SW8260B	Tetrachloroethene	12		µg/L
MW-113	B	196-206	Jun-91	N	SW8260B	1,1-Dichloroethane	0.59		µg/L
MW-113	B	196-206	Dec-91	N	SW8260B	Trichloroethene	2.0		µg/L
MW-113	B	196-206	Dec-91	N	SW8260B	Tetrachloroethene	6.0		µg/L
MW-113	B	196-206	Dec-91	N	SW8260B	Total 1,2-DCE	6.0		µg/L
MW-113	B	196-206	Dec-91	N	SW8260B	Toluene	95		µg/L
MW-113	B	196-206	Jul-92	N	SW8260B	Trichloroethene	1.8		µg/L
MW-113	B	196-206	Jul-92	N	SW8260B	Tetrachloroethene	18		µg/L
MW-113	B	196-206	Jul-92	N	SW8260B	Total 1,2-DCE	5.6		µg/L
MW-113	B	196-206	Oct-92	N	SW8260B	Trichloroethene	5.2		µg/L
MW-113	B	196-206	Oct-92	N	SW8260B	Tetrachloroethene	9.7		µg/L
MW-113	B	196-206	Oct-92	N	SW8260B	Total 1,2-DCE	4.8		µg/L
MW-113	B	196-206	Oct-92	N	SW8260B	Dichlorodifluoromethane	1.8		µg/L
MW-113	B	196-206	Oct-92	N	SW8260B	1,1-Dichloroethene	1.2		µg/L
MW-113	B	196-206	Oct-92	N	SW8260B	1,1-Dichloroethane	1.4		µg/L
MW-113	B	196-206	Jan-93	N	SW8260B	Trichloroethene	1.7		µg/L
MW-113	B	196-206	Jan-93	N	SW8260B	Tetrachloroethene	6.7	J	µg/L
MW-113	B	196-206	Jan-93	N	SW8260B	Total 1,2-DCE	2.3		µg/L
MW-113	B	196-206	May-93	N	SW8260B	Tetrachloroethene	1.5		µg/L

Appendix A

Summary of Historical Groundwater Analytical Results

Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-113	B	196-206	Aug-93	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-113	B	196-206	Nov-93	N	SW8260B	Tetrachloroethene	1.6	J	µg/L
MW-113	B	196-206	Nov-93	N	SW8260B	Toluene	11		µg/L
MW-113	B	196-206	Jan-94	N	SW8260B	Trichloroethene	1.0		µg/L
MW-113	B	196-206	Jan-94	N	SW8260B	Tetrachloroethene	4.0		µg/L
MW-113	B	196-206	Jan-94	N	SW8260B	Total 1,2-DCE	1.71		µg/L
MW-113	B	196-206	Apr-94	N	SW8260B	Trichloroethene	0.84	P	µg/L
MW-113	B	196-206	Apr-94	N	SW8260B	Cis-1,2-Dichloroethene	1.4	JN	µg/L
MW-113	B	196-206	Apr-94	N	SW8260B	Tetrachloroethene	3.2		µg/L
MW-113	B	196-206	Apr-94	N	SW8260B	Total 1,2-DCE	1.4	JN	µg/L
MW-113	B	196-206	Apr-94	N	SW8260B	1,1-Dichloroethane	0.1	JP	µg/L
MW-113	B	196-206	Jul-94	N	SW8260B	Trichloroethene	2.0		µg/L
MW-113	B	196-206	Jul-94	N	SW8260B	Cis-1,2-Dichloroethene	3.0		µg/L
MW-113	B	196-206	Jul-94	N	SW8260B	Tetrachloroethene	9.0		µg/L
MW-113	B	196-206	Oct-94	N	SW8260B	Cis-1,2-Dichloroethene	1.2	C	µg/L
MW-113	B	196-206	Oct-94	N	SW8260B	Tetrachloroethene	3.7	C	µg/L
MW-113	B	196-206	Jan-95	N	SW8260B	Trichloroethene	1.1		µg/L
MW-113	B	196-206	Jan-95	N	SW8260B	Cis-1,2-Dichloroethene	1.4		µg/L
MW-113	B	196-206	Jan-95	N	SW8260B	Tetrachloroethene	3.6		µg/L
MW-113	B	196-206	Jan-95	N	SW8260B	Toluene	0.57	JP	µg/L
MW-113	B	196-206	Jan-95	N	SW8260B	1,1-Dichloroethene	0.64	JP	µg/L
MW-113	B	196-206	Apr-95	N	SW8260B	Trichloroethene	1.0		µg/L
MW-113	B	196-206	Apr-95	N	SW8260B	Cis-1,2-Dichloroethene	1.1		µg/L
MW-113	B	196-206	Apr-95	N	SW8260B	Tetrachloroethene	2.4		µg/L
MW-113	B	196-206	7/95	N	SW8260B	Trichloroethene	1.0		µg/L
MW-113	B	196-206	Jul-95	N	SW8260B	Cis-1,2-Dichloroethene	2.0		µg/L
MW-113	B	196-206	Jul-95	N	SW8260B	Tetrachloroethene	4.0		µg/L
MW-113	B	196-206	Jul-95	N	SW8260B	Dichlorodifluoromethane	1.0		µg/L
MW-113	B	196-206	Oct-95	N	SW8260B	Trichloroethene	2.0		µg/L
MW-113	B	196-206	Oct-95	N	SW8260B	Cis-1,2-Dichloroethene	3.0		µg/L
MW-113	B	196-206	Oct-95	N	SW8260B	Tetrachloroethene	6.0		µg/L
MW-113	B	196-206	Oct-95	N	SW8260B	Dichlorodifluoromethane	11		µg/L
MW-113	B	196-206	Apr-96	N	SW8260B	Cis-1,2-Dichloroethene	1.2		µg/L
MW-113	B	196-206	Apr-96	N	SW8260B	Tetrachloroethene	2.9		µg/L
MW-113	B	196-206	Apr-96	N	SW8260B	Dichlorodifluoromethane	2.5		µg/L
MW-113	B	196-206	Apr-96	N	SW8260B	Trichlorofluoromethane	1.3		µg/L
MW-113	B	196-206	Oct-96	N	SW8260B	Trichloroethene	1.9		µg/L
MW-113	B	196-206	Oct-96	N	SW8260B	Cis-1,2-Dichloroethene	3.0		µg/L
MW-113	B	196-206	Oct-96	N	SW8260B	Tetrachloroethene	7.6		µg/L
MW-113	B	196-206	Oct-96	N	SW8260B	Dichlorodifluoromethane	11		µg/L
MW-113	B	196-206	Oct-96	N	SW8260B	Trichlorofluoromethane	1.0		µg/L
MW-113	B	196-206	Apr-97	N	SW8260B	Trichloroethene	0.9	J	µg/L
MW-113	B	196-206	Apr-97	N	SW8260B	Cis-1,2-Dichloroethene	0.9	J	µg/L
MW-113	B	196-206	Apr-97	N	SW8260B	Tetrachloroethene	2.9		µg/L
MW-113	B	196-206	Oct-97	N	SW8260B	Trichloroethene	1.8		µg/L
MW-113	B	196-206	Oct-97	N	SW8260B	Cis-1,2-Dichloroethene	2.3		µg/L
MW-113	B	196-206	Oct-97	N	SW8260B	Tetrachloroethene	5.3		µg/L
MW-113	B	196-206	Oct-97	N	SW8260B	Dichlorodifluoromethane	0.45		µg/L
MW-113	B	196-206	Apr-98	N	SW8260B	Trichloroethene	1.3		µg/L
MW-113	B	196-206	Apr-98	N	SW8260B	Cis-1,2-Dichloroethene	1.1		µg/L
MW-113	B	196-206	Apr-98	N	SW8260B	Tetrachloroethene	3.0		µg/L
MW-113	B	196-206	Apr-98	N	SW8260B	Chlorodibromomethane	0.25		µg/L
MW-113	B	196-206	Apr-98	N	SW8260B	1,2-Dichloropropane	0.2		µg/L
MW-113	B	196-206	Apr-98	N	SW8260B	Trichlorofluoromethane	0.22		µg/L
MW-113	B	196-206	Oct-98	N	SW8260B	Trichloroethene	0.9	J	µg/L
MW-113	B	196-206	Oct-98	N	SW8260B	Cis-1,2-Dichloroethene	0.8	J	µg/L
MW-113	B	196-206	Oct-98	N	SW8260B	Tetrachloroethene	3.0		µg/L
MW-113	B	196-206	Apr-99	N	SW8260B	Trichloroethene	100		µg/L
MW-113	B	196-206	Apr-99	N	SW8260B	Trans-1,2-Dichloroethene	0.9	J	µg/L
MW-113	B	196-206	Apr-99	N	SW8260B	Cis-1,2-Dichloroethene	51		µg/L

Appendix A

Summary of Historical Groundwater Analytical Results

Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-113	B	196-206	Apr-99	N	SW8260B	1,1-Dichloroethene	18		µg/L
MW-113	B	196-206	Apr-99	N	SW8260B	1,2-Dichloroethane	0.6	J	µg/L
MW-113	B	196-206	Apr-99	N	SW8260B	Trichloroethane	1.0		µg/L
MW-113	B	196-206	Apr-99	N	SW8260B	Tetrachloroethene	3.0		µg/L
MW-113	B	196-206	Jul-99	N	SW8260B	Trichloroethene	90		µg/L
MW-113	B	196-206	Jul-99	N	SW8260B	Trans-1,2-Dichloroethene	0.5	J	µg/L
MW-113	B	196-206	Jul-99	N	SW8260B	Cis-1,2-Dichloroethene	51		µg/L
MW-113	B	196-206	Jul-99	N	SW8260B	1,1-Dichloroethene	18		µg/L
MW-113	B	196-206	Jul-99	N	SW8260B	Trichloroethane	0.7	J	µg/L
MW-113	B	196-206	Jul-99	N	SW8260B	Tetrachloroethene	2.6		µg/L
MW-113	B	196-206	Jul-99	N	SW8260B	Dichlorodifluoromethane	0.5	J	µg/L
MW-113	B	196-206	Jul-99	N	SW8260B	1,1-Dichloroethane	0.3	J	µg/L
MW-113	B	196-206	Jul-99	N	SW8260B	Benzene	0.2	J	µg/L
MW-113	B	196-206	Jul-99	N	SW8260B	Trichlorofluoromethane	0.2	J	µg/L
MW-113	B	196-206	Oct-99	N	SW8260B	Trichloroethene	3.5		µg/L
MW-113	B	196-206	Oct-99	N	SW8260B	Cis-1,2-Dichloroethene	2.1		µg/L
MW-113	B	196-206	Oct-99	N	SW8260B	1,1-Dichloroethene	0.7	J	µg/L
MW-113	B	196-206	Oct-99	N	SW8260B	Tetrachloroethene	5.1		µg/L
MW-113	B	196-206	Oct-99	N	SW8260B	Dichlorodifluoromethane	2.2	J	µg/L
MW-113	B	196-206	Jan-00	N	SW8260B	Trichloroethene	33		µg/L
MW-113	B	196-206	Jan-00	N	SW8260B	Cis-1,2-Dichloroethene	2.1		µg/L
MW-113	B	196-206	Jan-00	N	SW8260B	1,1-Dichloroethene	0.6	J	µg/L
MW-113	B	196-206	Jan-00	N	SW8260B	Tetrachloroethene	4.1		µg/L
MW-113	B	196-206	Jan-00	N	SW8260B	Dichlorodifluoromethane	2.1		µg/L
MW-113	B	196-206	Apr-00	N	SW8260B	Trichloroethene	3.7		µg/L
MW-113	B	196-206	Apr-00	N	SW8260B	Cis-1,2-Dichloroethene	2.1		µg/L
MW-113	B	196-206	Apr-00	N	SW8260B	1,1-Dichloroethene	0.7	J	µg/L
MW-113	B	196-206	Apr-00	N	SW8260B	Tetrachloroethene	4.3		µg/L
MW-113	B	196-206	Apr-00	N	SW8260B	Dichlorodifluoromethane	2.3		µg/L
MW-113	B	196-206	Apr-00	N	SW8260B	1,2-Dichloropropane	0.5	J	µg/L
MW-113	B	196-206	Oct-00	N	SW8260B	Trichloroethene	1.8		µg/L
MW-113	B	196-206	Oct-00	N	SW8260B	Cis-1,2-Dichloroethene	1.6		µg/L
MW-113	B	196-206	Oct-00	N	SW8260B	Tetrachloroethene	4.4		µg/L
MW-113	B	196-206	Oct-00	N	SW8260B	Dichlorodifluoromethane	1.4	J	µg/L
MW-113	B	196-206	Apr-01	N	SW8260B	Trichloroethene	0.58	J	µg/L
MW-113	B	196-206	Apr-01	N	SW8260B	Cis-1,2-Dichloroethene	0.72	J	µg/L
MW-113	B	196-206	Apr-01	N	SW8260B	Tetrachloroethene	2.2		µg/L
MW-113	B	196-206	Apr-01	N	SW8260B	Dichlorodifluoromethane	0.45	J	µg/L
MW-113	B	196-206	Oct-01	N	SW8260B	Trichloroethene	1.9		µg/L
MW-113	B	196-206	Oct-01	N	SW8260B	Cis-1,2-Dichloroethene	2.0		µg/L
MW-113	B	196-206	Oct-01	N	SW8260B	1,1-Dichloroethene	0.25	J	µg/L
MW-113	B	196-206	Oct-01	N	SW8260B	Tetrachloroethene	6.9		µg/L
MW-113	B	196-206	Oct-01	N	SW8260B	Dichlorodifluoromethane	2.6		µg/L
MW-113	B	196-206	Oct-01	N	SW8260B	Trichlorofluoromethane	0.42	J	µg/L
MW-113	B	196-206	Apr-02	N	SW8260B	Trichloroethene	1.7		µg/L
MW-113	B	196-206	Apr-02	N	SW8260B	Cis-1,2-Dichloroethene	1.7		µg/L
MW-113	B	196-206	Apr-02	N	SW8260B	Tetrachloroethene	5.6		µg/L
MW-113	B	196-206	Apr-02	N	SW8260B	Dichlorodifluoromethane	1.4	J	µg/L
MW-113	B	196-206	Apr-02	N	SW8260B	Trichlorofluoromethane	0.32	J	µg/L
MW-113	B	196-206	Oct-02	N	SW8260B	Trichloroethene	1.8		µg/L
MW-113	B	196-206	Oct-02	N	SW8260B	Cis-1,2-Dichloroethene	2.1		µg/L
MW-113	B	196-206	Oct-02	N	SW8260B	Tetrachloroethene	6.5		µg/L
MW-113	B	196-206	Oct-02	N	SW8260B	Dichlorodifluoromethane	1.8	J	µg/L
MW-113	B	196-206	Oct-02	N	SW8260B	1,1-Dichloroethane	0.27	J	µg/L
MW-113	B	196-206	Oct-02	N	SW8260B	Trichlorofluoromethane	0.4	J	µg/L
MW-113	B	196-206	Apr-03	N	SW8260B	Trichloroethene	1.2		µg/L
MW-113	B	196-206	Apr-03	N	SW8260B	Cis-1,2-Dichloroethene	1.5		µg/L
MW-113	B	196-206	Apr-03	N	SW8260B	Tetrachloroethene	3.8		µg/L
MW-113	B	196-206	Apr-03	N	SW8260B	Dichlorodifluoromethane	1.2	J	µg/L
MW-113	B	196-206	Apr-03	N	SW8260B	Trichlorofluoromethane	0.38	J	µg/L

Appendix A

Summary of Historical Groundwater Analytical Results

Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-113	B	196-206	Oct-03	N	SW8260B	Trichloroethene	1.6		µg/L
MW-113	B	196-206	Oct-03	N	SW8260B	Cis-1,2-Dichloroethene	1.9		µg/L
MW-113	B	196-206	Oct-03	N	SW8260B	Tetrachloroethene	3.9		µg/L
MW-113	B	196-206	Oct-03	N	SW8260B	Dichlorodifluoromethane	1.2	J	µg/L
MW-113	B	196-206	Oct-03	N	SW8260B	Trichlorofluoromethane	0.33	J	µg/L
MW-113	B	196-206	Oct-03	N	SW8260B	Toluene	2.7		µg/L
MW-113	B	196-206	Apr-04	N	SW8260B	Trichloroethene	2.1		µg/L
MW-113	B	196-206	Apr-04	N	SW8260B	Cis-1,2-Dichloroethene	2.4		µg/L
MW-113	B	196-206	Apr-04	N	SW8260B	Tetrachloroethene	6.7		µg/L
MW-113	B	196-206	Apr-04	N	SW8260B	Dichlorodifluoromethane	1.9	J	µg/L
MW-113	B	196-206	Apr-04	N	SW8260B	1,1-Dichloroethane	0.23	J	µg/L
MW-113	B	196-206	Apr-04	N	SW8260B	Trichlorofluoromethane	0.5	J	µg/L
MW-113	B	196-206	Oct-04	N	SW8260B	Trichloroethene	2.3		µg/L
MW-113	B	196-206	Oct-04	N	SW8260B	Cis-1,2-Dichloroethene	2.7		µg/L
MW-113	B	196-206	Oct-04	N	SW8260B	Tetrachloroethene	7.6		µg/L
MW-113	B	196-206	Oct-04	N	SW8260B	Dichlorodifluoromethane	1.9	J	µg/L
MW-113	B	196-206	Oct-04	N	SW8260B	1,1-Dichloroethane	0.29	J	µg/L
MW-113	B	196-206	Oct-04	N	SW8260B	Trichlorofluoromethane	0.72	J	µg/L
MW-113	B	196-206	Apr-05	N	SW8260B	Trichloroethene	1.2		µg/L
MW-113	B	196-206	Apr-05	N	SW8260B	Cis-1,2-Dichloroethene	0.79	J	µg/L
MW-113	B	196-206	Apr-05	N	SW8260B	Tetrachloroethene	3.0		µg/L
MW-113	B	196-206	Apr-05	N	SW8260B	Dichlorodifluoromethane	2.0		µg/L
MW-113	B	196-206	Apr-05	N	SW8260B	Trichlorofluoromethane	0.43	J	µg/L
MW-113	B	196-206	Jul-06	N	SW8260B	Trichloroethene	1.9		µg/L
MW-113	B	196-206	Jul-06	N	SW8260B	Cis-1,2-Dichloroethene	1.7		µg/L
MW-113	B	196-206	Jul-06	N	SW8260B	Tetrachloroethene	6.7		µg/L
MW-113	B	196-206	Jul-06	N	SW8260B	Dichlorodifluoromethane	2.58		µg/L
MW-113	B	196-206	Jul-06	N	SW8260B	1,1-Dichloroethane	0.23	J	µg/L
MW-113	B	196-206	Jul-06	N	SW8260B	Trichlorofluoromethane	0.96	J	µg/L
MW-113	B	196-206	Jul-07	N	SW8260B	Trichloroethene	2.2		µg/L
MW-113	B	196-206	Jul-07	N	SW8260B	Cis-1,2-Dichloroethene	1.4		µg/L
MW-113	B	196-206	Jul-07	N	SW8260B	Tetrachloroethene	5.2		µg/L
MW-113	B	196-206	Jul-07	N	SW8260B	Dichlorodifluoromethane	1.9	J	µg/L
MW-113	B	196-206	Jul-07	N	SW8260B	Trichlorofluoromethane	0.97	J	µg/L
MW-113	B	196-206	Jul-08	N	SW8260B	Trichloroethene	2.3		µg/L
MW-113	B	196-206	Jul-08	N	SW8260B	Cis-1,2-Dichloroethene	1.2		µg/L
MW-113	B	196-206	Jul-08	N	SW8260B	Tetrachloroethene	6.4		µg/L
MW-113	B	196-206	Jul-08	N	SW8260B	Dichlorodifluoromethane	1.2	J	µg/L
MW-113	B	196-206	Jul-08	N	SW8260B	Chloroform	0.17	J	µg/L
MW-113	B	196-206	Jul-08	N	SW8260B	1,1-Dichloroethane	0.13	J	µg/L
MW-113	B	196-206	Jul-08	N	SW8260B	Toluene	0.41	JB	µg/L
MW-113	B	196-206	Jul-08	N	SW8260B	M&P-Xylene	0.18	JB	µg/L
MW-113	B	196-206	Jul-08	N	SW8260B	Trichlorofluoromethane	1.3	J	µg/L
MW-113	B	196-206	Jul-09	N	SW8260B	Trichloroethene	2.5		µg/L
MW-113	B	196-206	Jul-09	N	SW8260B	Cis-1,2-Dichloroethene	1.5		µg/L
MW-113	B	196-206	Jul-09	N	SW8260B	Tetrachloroethene	7.6		µg/L
MW-113	B	196-206	Jul-09	N	SW8260B	Trichlorofluoromethane	2.3		µg/L
MW-113	B	196-206	Apr-10	N	SW8260B	1,1-Dichloroethane	0.18	J	µg/L
MW-113	B	196-206	Apr-10	N	SW8260B	cis-1,2-Dichloroethene	1.2		µg/L
MW-113	B	196-206	Apr-10	N	SW8260B	Dichlorodifluoromethane	1.3		µg/L
MW-113	B	196-206	Apr-10	N	SW8260B	Tetrachloroethene	3.8		µg/L
MW-113	B	196-206	Apr-10	N	SW8260B	Trichloroethene	1.5		µg/L
MW-113	B	196-206	Apr-10	N	SW8260B	Trichlorofluoromethane	1.9		µg/L
MW-113	B	196-206	Apr-11	N	SW8260B	cis-1,2-Dichloroethene	0.35	J	µg/L
MW-113	B	196-206	Apr-11	N	SW8260B	Dichlorodifluoromethane	0.46	J	µg/L
MW-113	B	196-206	Apr-11	N	SW8260B	Tetrachloroethene	2.2		µg/L
MW-113	B	196-206	Apr-11	N	SW8260B	Trichloroethene	0.63		µg/L
MW-113	B	196-206	Apr-11	N	SW8260B	Trichlorofluoromethane	1.8		µg/L
MW-113	B	196-206	Apr-12	N	SW8260B	Tetrachloroethene	1		µg/L
MW-113	B	196-206	Apr-12	N	SW8260B	Trichloroethene	0.35	J	µg/L

Appendix A

Summary of Historical Groundwater Analytical Results

Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-113	B	196-206	Apr-12	N	SW8260B	Trichlorofluoromethane	0.95	J	µg/L
MW-113	B	196-206	Apr-13	N	SW8260B	cis-1,2-Dichloroethene	0.19	J	µg/L
MW-113	B	196-206	Apr-13	N	SW8260B	Tetrachloroethene	1.5		µg/L
MW-113	B	196-206	Apr-13	N	SW8260B	Trichloroethene	0.37	J	µg/L
MW-113	B	196-206	Apr-13	FD	SW8260B	cis-1,2-Dichloroethene	0.21	J	µg/L
MW-113	B	196-206	Apr-13	FD	SW8260B	Tetrachloroethene	1.5		µg/L
MW-113	B	196-206	Apr-13	FD	SW8260B	Trichloroethene	0.38	J	µg/L
MW-113	B	196-206	Apr-14	N	SW8260B	cis-1,2-Dichloroethene	1.8		µg/L
MW-113	B	196-206	Apr-14	N	SW8260B	Tetrachloroethene	7.4		µg/L
MW-113	B	196-206	Apr-14	N	SW8260B	Trichloroethene	2.2		µg/L
MW-113	B	196-206	Apr-14	N	SW8260B	Trichlorofluoromethane	1.8		µg/L
MW-184	C	171.5-191.5	Jun-91	N	SW8260B	Tetrachloroethene	1.2		µg/L
MW-184	C	171.5-191.5	Dec-91	N	SW8260B	Trichloroethene	0.7		µg/L
MW-184	C	171.5-191.5	Dec-91	N	SW8260B	Tetrachloroethene	1.2		µg/L
MW-184	C	171.5-191.5	Jul-92	N	SW8260B	Tetrachloroethene	2.3		µg/L
MW-184	C	171.5-191.5	Oct-92	N	SW8260B	Tetrachloroethene	1.5		µg/L
MW-184	C	171.5-191.5	Jan-93	N	SW8260B	Toluene	3.2		µg/L
MW-184	C	171.5-191.5	May-93	N	SW8260B	Tetrachloroethene	1.1		µg/L
MW-184	C	171.5-191.5	Aug-93	N	SW8260B	Tetrachloroethene	1.2		µg/L
MW-184	C	171.5-191.5	Nov-93	N	SW8260B	Tetrachloroethene	1.0		µg/L
MW-184	C	171.5-191.5	Jan-94	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-184	C	171.5-191.5	Apr-94	N	SW8260B	Trichloroethene	0.24	JB	µg/L
MW-184	C	171.5-191.5	Apr-94	N	SW8260B	Tetrachloroethene	0.71		µg/L
MW-184	C	171.5-191.5	Apr-94	N	SW8260B	Toluene	0.24	JB	µg/L
MW-184	C	171.5-191.5	Apr-96	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-184	C	171.5-191.5	Apr-97	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-184	C	171.5-191.5	Oct-98	N	SW8260B	Tetrachloroethene	0.6	J	µg/L
MW-184	C	171.5-191.5	Apr-99	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-184	C	171.5-191.5	Oct-99	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-184	C	171.5-191.5	Apr-00	N	SW8260B	Chloroform	0.6	J	µg/L
MW-184	C	171.5-191.5	Oct-00	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-184	C	171.5-191.5	Apr-01	N	SW8260B	Chloroform	0.34	J	µg/L
MW-184	C	171.5-191.5	Oct-01	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-184	C	171.5-191.5	Apr-02	N	SW8260B	Chloroform	0.42	J	µg/L
MW-184	C	171.5-191.5	Apr-03	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-184	C	171.5-191.5	Apr-04	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-184	C	171.5-191.5	Apr-05	N	SW8260B	Dichlorodifluoromethane	0.67	J	µg/L
MW-184	C	171.5-191.5	Jul-05	N	SW8260B	Dichlorodifluoromethane	0.55	J	µg/L
MW-184	C	171.5-191.5	Oct-05	N	SW8260B	Tetrachloroethene	0.49	J	µg/L
MW-184	C	171.5-191.5	Oct-05	N	SW8260B	Dichlorodifluoromethane	0.59	J	µg/L
MW-184	C	171.5-191.5	Jan-06	N	SW8260B	Tetrachloroethene	0.51	J	µg/L
MW-184	C	171.5-191.5	Jan-06	N	SW8260B	Dichlorodifluoromethane	0.69	J	µg/L
MW-184	C	171.5-191.5	Apr-06	N	SW8260B	Tetrachloroethene	0.45	J	µg/L
MW-184	C	171.5-191.5	Oct-06	N	SW8260B	Tetrachloroethene	0.61	J	µg/L
MW-184	C	171.5-191.5	Oct-06	N	SW8260B	Dichlorodifluoromethane	0.75	J	µg/L
MW-184	C	171.5-191.5	Jan-07	N	SW8260B	Tetrachloroethene	0.55	J	µg/L
MW-184	C	171.5-191.5	Jan-07	N	SW8260B	Dichlorodifluoromethane	0.64	J	µg/L
MW-184	C	171.5-191.5	Apr-07	N	SW8260B	Tetrachloroethene	0.55	J	µg/L
MW-184	C	171.5-191.5	Apr-07	N	SW8260B	Dichlorodifluoromethane	0.54	J	µg/L
MW-184	C	171.5-191.5	Jul-07	N	SW8260B	Tetrachloroethene	0.54	J	µg/L
MW-184	C	171.5-191.5	Oct-07	N	SW8260B	Tetrachloroethene	0.59	J	µg/L
MW-184	C	171.5-191.5	Jan-08	N	SW8260B	Tetrachloroethene	0.61	J	µg/L
MW-184	C	171.5-191.5	Jan-08	N	SW8260B	Trichlorofluoromethane	0.28	J	µg/L
MW-184	C	171.5-191.5	Jan-08	N	SW8260B	Dichlorodifluoromethane	0.48	J	µg/L
MW-184	C	171.5-191.5	Jul-08	N	SW8260B	Trichloroethene	0.23	J	µg/L
MW-184	C	171.5-191.5	Jul-08	N	SW8260B	Tetrachloroethene	0.79	J	µg/L
MW-184	C	171.5-191.5	Jul-08	N	SW8260B	Chloroform	0.13	J	µg/L
MW-184	C	171.5-191.5	Jul-08	N	SW8260B	Chloromethane	0.27	J	µg/L
MW-184	C	171.5-191.5	Jul-08	N	SW8260B	Toluene	0.38	JB	µg/L
MW-184	C	171.5-191.5	Jul-08	N	SW8260B	Xylene	0.23	JB	µg/L

Appendix A

Summary of Historical Groundwater Analytical Results

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Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-184	C	171.5-191.5	Jul-08	N	SW8260B	Trichlorofluoromethane	0.38	J	µg/L
MW-184	C	171.5-191.5	Jul-08	N	SW8260B	Dichlorodifluoromethane	0.45	J	µg/L
MW-184	C	171.5-191.5	Oct-08	N	SW8260B	Trichloroethene	0.96	J	µg/L
MW-184	C	171.5-191.5	Oct-08	N	SW8260B	Tetrachloroethene	0.59	J	µg/L
MW-184	C	171.5-191.5	Oct-08	N	SW8260B	Dichlorodifluoromethane	0.55	J	µg/L
MW-184	C	171.5-191.5	Oct-08	N	SW8260B	Trichlorofluoromethane	0.34	J	µg/L
MW-184	C	171.5-191.5	Jan-09	N	SW8260B	Trichloroethene	0.72	J	µg/L
MW-184	C	171.5-191.5	Jan-09	N	SW8260B	Tetrachloroethene	0.71	J	µg/L
MW-184	C	171.5-191.5	Jan-09	N	SW8260B	Chloroform	0.12	J	µg/L
MW-184	C	171.5-191.5	Jan-09	N	SW8260B	Dichlorodifluoromethane	0.41	J	µg/L
MW-184	C	171.5-191.5	Apr-09	N	SW8260B	Trichloroethene	0.78	J	µg/L
MW-184	C	171.5-191.5	Apr-09	N	SW8260B	Tetrachloroethene	0.8	J	µg/L
MW-184	C	171.5-191.5	Apr-09	N	SW8260B	Dichlorodifluoromethane	0.6	J	µg/L
MW-184	C	171.5-191.5	Apr-09	N	SW8260B	Trichlorofluoromethane	0.5	J	µg/L
MW-184	C	171.5-191.5	Jul-09	N	SW8260B	Trichloroethene	0.68	J	µg/L
MW-184	C	171.5-191.5	Jul-09	N	SW8260B	Tetrachloroethene	0.65	J	µg/L
MW-184	C	171.5-191.5	Dec-09	N	SW8260B	Tetrachloroethene	0.31	J	µg/L
MW-184	C	171.5-191.5	Dec-09	N	SW8260B	Trichloroethene	0.97		µg/L
MW-184	C	171.5-191.5	Dec-09	FD	SW8260B	Tetrachloroethene	0.32	J	µg/L
MW-184	C	171.5-191.5	Dec-09	FD	SW8260B	Trichloroethene	0.96		µg/L
MW-184	C	171.5-191.5	Apr-10	N	SW8260B	Dichlorodifluoromethane	0.69	J	µg/L
MW-184	C	171.5-191.5	Apr-10	N	SW8260B	Tetrachloroethene	0.84		µg/L
MW-184	C	171.5-191.5	Apr-10	N	SW8260B	Trichloroethene	0.25	J	µg/L
MW-184	C	171.5-191.5	Apr-10	N	SW8260B	Trichlorofluoromethane	0.8	J	µg/L
MW-184	C	171.5-191.5	Nov-10	N	SW8260B	Tetrachloroethylene	0.74		µg/L
MW-184	C	171.5-191.5	Nov-10	N	SW8260B	Trichloroethene	1.3		µg/L
MW-184	C	171.5-191.5	Apr-11	N	SW8260B	Dichlorodifluoromethane	0.81	J	µg/L
MW-184	C	171.5-191.5	Apr-11	N	SW8260B	Tetrachloroethene	0.93		µg/L
MW-184	C	171.5-191.5	Apr-11	N	SW8260B	Trichloroethene	0.26	J	µg/L
MW-184	C	171.5-191.5	Apr-11	N	SW8260B	Trichlorofluoromethane	0.9	J	µg/L
MW-184	C	171.5-191.5	Apr-11	FD	SW8260B	Chloroform	0.17	J	µg/L
MW-184	C	171.5-191.5	Apr-11	FD	SW8260B	Dichlorodifluoromethane	0.83	J	µg/L
MW-184	C	171.5-191.5	Apr-11	FD	SW8260B	Tetrachloroethene	0.87		µg/L
MW-184	C	171.5-191.5	Apr-11	FD	SW8260B	Trichloroethene	0.32	J	µg/L
MW-184	C	171.5-191.5	Apr-11	FD	SW8260B	Trichlorofluoromethane	0.93	J	µg/L
MW-184	C	171.5-191.5	Apr-12	N	SW8260B	Dichlorodifluoromethane	0.36	J	µg/L
MW-184	C	171.5-191.5	Apr-12	N	SW8260B	Methyl tert-butyl ether	0.32	J	µg/L
MW-184	C	171.5-191.5	Apr-12	N	SW8260B	Tetrachloroethene	0.77		µg/L
MW-184	C	171.5-191.5	Apr-12	N	SW8260B	Trichlorofluoromethane	0.48	J	µg/L
MW-184	C	171.5-191.5	Apr-12	FD	SW8260B	Methyl tert-butyl ether	0.35	J	µg/L
MW-184	C	171.5-191.5	Apr-12	FD	SW8260B	Tetrachloroethene	0.7		µg/L
MW-184	C	171.5-191.5	Apr-13	N	SW8260B	Tetrachloroethene	0.86		µg/L
MW-184	C	171.5-191.5	Apr-13	N	SW8260B	Trichloroethene	0.44	J	µg/L
MW-184	C	171.5-191.5	Apr-14	N	SW8260B	Tetrachloroethene	0.84		µg/L
MW-184	C	171.5-191.5	Apr-14	N	SW8260B	Trichloroethene	0.53		µg/L
MW-207	B	125-140	Jun-91	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Dec-91	N	SW8260B	Trichloroethene	0.5		µg/L
MW-207	B	125-140	Jul-92	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Oct-92	N	SW8260B	Toluene	26		µg/L
MW-207	B	125-140	Jan-93	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	May-93	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Aug-93	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Nov-93	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Jan-94	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Apr-94	N	SW8260B	Trichloroethene	0.25	J	µg/L
MW-207	B	125-140	Apr-95	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Jan-96	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Apr-96	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Jul-96	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Oct-96	N	SW8260B	Volatile Organic Compounds	ALL ND		

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Summary of Historical Groundwater Analytical Results

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Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-207	B	125-140	Jan-97	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Apr-97	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Jul-97	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Oct-97	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Jan-98	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Apr-98	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Apr-99	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Apr-00	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Apr-01	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Apr-02	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Oct-02	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Jan-03	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Apr-03	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Oct-03	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Jan-04	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Apr-04	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Jul-04	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Oct-04	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Jan-05	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Apr-05	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-207	B	125-140	Jul-06	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Jun-91	N	SW8260B	Trichloroethene	3.0		µg/L
MW-215	B	140-155	Dec-91	N	SW8260B	Trichloroethene	1.6		µg/L
MW-215	B	140-155	Jul-92	N	SW8260B	Trichloroethene	1.2		µg/L
MW-215	B	140-155	Oct-92	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Jan-93	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	May-93	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Aug-93	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Aug-93	N	SW8260B	Cis-1,3-Dichloropropene	1.3		µg/L
MW-215	B	140-155	Nov-93	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Jan-94	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Apr-94	N	SW8260B	Trichloroethene	0.37		µg/L
MW-215	B	140-155	Apr-94	N	SW8260B	Tetrachloroethene	0.16	JP	µg/L
MW-215	B	140-155	Jul-94	N	SW8260B	Trichloroethene	5.0		µg/L
MW-215	B	140-155	Oct-94	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Jan-95	N	SW8260B	Trichloroethene	0.86	J	µg/L
MW-215	B	140-155	Apr-95	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Jul-95	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Oct-95	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Apr-96	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Oct-96	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Apr-97	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Oct-97	N	SW8260B	Trichloroethene	1.7		µg/L
MW-215	B	140-155	Oct-97	N	SW8260B	Trans-1,2-Dichloroethene	0.48	P	µg/L
MW-215	B	140-155	Oct-97	N	SW8260B	Cis-1,2-Dichloroethene	13		µg/L
MW-215	B	140-155	Oct-97	N	SW8260B	1,2-Dichloroethane	52		µg/L
MW-215	B	140-155	Oct-97	N	SW8260B	Tetrachloroethene	1.2		µg/L
MW-215	B	140-155	Oct-97	N	SW8260B	Chloromethane	0.28		µg/L
MW-215	B	140-155	Oct-97	N	SW8260B	1,1-Dichloroethene	0.34		µg/L
MW-215	B	140-155	Oct-97	N	SW8260B	1,1,-Dichloroethane	0.34	P	µg/L
MW-215	B	140-155	Oct-97	N	SW8260B	1,2-Dichloropropane	0.22		µg/L
MW-215	B	140-155	Oct-97	N	SW8260B	1,1,2-Trichloroethane	0.24		µg/L
MW-215	B	140-155	Oct-97	N	SW8260B	Carbon Tetrachloride	0.33		µg/L
MW-215	B	140-155	Oct-97	N	SW8260B	Vinyl Chloride	3.0		µg/L
MW-215	B	140-155	Oct-98	N	SW8260B	1,2-Dichloroethane	4	J	µg/L
MW-215	B	140-155	Apr-99	N	SW8260B	Cis-1,2-Dichloroethene	0.6	J	µg/L
MW-215	B	140-155	Apr-99	N	SW8260B	1,2-Dichloroethane	7.0		µg/L
MW-215	B	140-155	Oct-99	N	SW8260B	Trichloroethene	3.7		µg/L
MW-215	B	140-155	Apr-00	N	SW8260B	1,2-Dichloroethane	1.8		µg/L
MW-215	B	140-155	Oct-00	N	SW8260B	1,2-Dichloroethane	1.2		µg/L

Appendix A

Summary of Historical Groundwater Analytical Results

Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-215	B	140-155	Apr-01	N	SW8260B	1,2-Dichloroethane	0.42	J	µg/L
MW-215	B	140-155	Oct-01	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Apr-02	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Oct-02	N	SW8260B	Dichlorodifluoromethane	0.42	J	µg/L
MW-215	B	140-155	Jan-03	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Apr-03	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-215	B	140-155	Jul-03	N	SW8260B	Trichloroethene	0.42	JS	µg/L
MW-215	B	140-155	Jul-03	N	SW8260B	Chloroform	0.24	JS	µg/L
MW-215	B	140-155	Oct-03	N	SW8260B	Trichloroethene	0.47	J	µg/L
MW-215	B	140-155	Jan-04	N	SW8260B	Trichloroethene	1.8		µg/L
MW-215	B	140-155	Apr-04	N	SW8260B	Trichloroethene	8.4		µg/L
MW-215	B	140-155	Apr-04	N	SW8260B	Cis-1,2-Dichloroethene	0.5	J	µg/L
MW-215	B	140-155	Jul-04	N	SW8260B	Trichloroethene	6.8		µg/L
MW-215	B	140-155	Jul-04	N	SW8260B	Cis-1,2-Dichloroethene	0.41	J	µg/L
MW-215	B	140-155	Oct-04	N	SW8260B	Trichloroethene	9.9		µg/L
MW-215	B	140-155	Oct-04	N	SW8260B	Cis-1,2-Dichloroethene	0.84	J	µg/L
MW-215	B	140-155	Jan-05	N	SW8260B	Trichloroethene	13		µg/L
MW-215	B	140-155	Jan-05	N	SW8260B	Cis-1,2-Dichloroethene	1.2		µg/L
MW-215	B	140-155	Apr-05	N	SW8260B	Trichloroethene	13		µg/L
MW-215	B	140-155	Apr-05	N	SW8260B	Cis-1,2-Dichloroethene	2.4		µg/L
MW-215	B	140-155	Jul-05	N	SW8260B	Trichloroethene	27		µg/L
MW-215	B	140-155	Jul-05	N	SW8260B	Trans-1,2-Dichloroethene	0.46	J	µg/L
MW-215	B	140-155	Jul-05	N	SW8260B	Cis-1,2-Dichloroethene	2.7		µg/L
MW-215	B	140-155	Oct-05	N	SW8260B	Trichloroethene	21		µg/L
MW-215	B	140-155	Oct-05	N	SW8260B	Cis-1,2-Dichloroethene	1.6		µg/L
MW-215	B	140-155	Oct-05	N	SW8260B	Tetrachloroethene	0.5	J	µg/L
MW-215	B	140-155	Jan-06	N	SW8260B	Trichloroethene	21		µg/L
MW-215	B	140-155	Jan-06	N	SW8260B	Trans-1,2-Dichloroethene	0.35	J	µg/L
MW-215	B	140-155	Jan-06	N	SW8260B	Cis-1,2-Dichloroethene	2.1		µg/L
MW-215	B	140-155	Jan-06	N	SW8260B	Tetrachloroethene	0.54	J	µg/L
MW-215	B	140-155	Apr-06	N	SW8260B	Trichloroethene	38		µg/L
MW-215	B	140-155	Apr-06	N	SW8260B	Trans-1,2-Dichloroethene	0.58	J	µg/L
MW-215	B	140-155	Apr-06	N	SW8260B	Cis-1,2-Dichloroethene	3.9		µg/L
MW-215	B	140-155	Apr-06	N	SW8260B	Tetrachloroethene	0.52	J	µg/L
MW-215	B	140-155	Jul-06	N	SW8260B	Trichloroethene	26		µg/L
MW-215	B	140-155	Jul-06	N	SW8260B	Trans-1,2-Dichloroethene	0.52	J	µg/L
MW-215	B	140-155	Jul-06	N	SW8260B	Cis-1,2-Dichloroethene	1.7		µg/L
MW-215	B	140-155	Jul-06	N	SW8260B	Tetrachloroethene	0.56	J	µg/L
MW-215	B	140-155	Oct-06	N	SW8260B	Trichloroethene	43		µg/L
MW-215	B	140-155	Oct-06	N	SW8260B	Cis-1,2-Dichloroethene	3.8		µg/L
MW-215	B	140-155	Oct-06	N	SW8260B	1,2-Dichloroethane	0.8	J	µg/L
MW-215	B	140-155	Oct-06	N	SW8260B	Tetrachloroethene	0.64	J	µg/L
MW-215	B	140-155	Jan-07	N	SW8260B	Trichloroethene	16		µg/L
MW-215	B	140-155	Jan-07	N	SW8260B	Cis-1,2-Dichloroethene	1.2		µg/L
MW-215	B	140-155	Jan-07	N	SW8260B	Dichlorodifluoromethane	0.42	J	µg/L
MW-215	B	140-155	Jan-07	N	SW8260B	Tetrachloroethene	0.56	J	µg/L
MW-215	B	140-155	Apr-07	N	SW8260B	Trichloroethene	46		µg/L
MW-215	B	140-155	Apr-07	N	SW8260B	Cis-1,2-Dichloroethene	5.6		µg/L
MW-215	B	140-155	Apr-07	N	SW8260B	1,2-Dichloroethane	0.83	J	µg/L
MW-215	B	140-155	Apr-07	N	SW8260B	Tetrachloroethene	0.59	J	µg/L
MW-215	B	140-155	Jul-07	N	SW8260B	Trichloroethene	53		µg/L
MW-215	B	140-155	Jul-07	N	SW8260B	Trans-1,2-Dichloroethene	1.1		µg/L
MW-215	B	140-155	Jul-07	N	SW8260B	Cis-1,2-Dichloroethene	7		µg/L
MW-215	B	140-155	Oct-07	N	SW8260B	Trichloroethene	20		µg/L
MW-215	B	140-155	Oct-07	N	SW8260B	Trans-1,2-Dichloroethene	0.21	J	µg/L
MW-215	B	140-155	Oct-07	N	SW8260B	Cis-1,2-Dichloroethene	1.4		µg/L
MW-215	B	140-155	Oct-07	N	SW8260B	Chloroform	0.15	J	µg/L
MW-215	B	140-155	Oct-07	N	SW8260B	Tetrachloroethene	0.72	J	µg/L
MW-215	B	140-155	Jan-08	N	SW8260B	Trichloroethene	27		µg/L
MW-215	B	140-155	Jan-08	N	SW8260B	Trans-1,2-Dichloroethene	0.52	J	µg/L

Appendix A

Summary of Historical Groundwater Analytical Results

Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-215	B	140-155	Jan-08	N	SW8260B	Cis-1,2-Dichloroethene	2.8		µg/L
MW-215	B	140-155	Jan-08	N	SW8260B	Chlorform	0.17	J	µg/L
MW-215	B	140-155	Jan-08	N	SW8260B	Tetrachloroethene	0.39	J	µg/L
MW-215	B	140-155	Apr-08	N	SW8260B	Trichloroethene	28		µg/L
MW-215	B	140-155	Apr-08	N	SW8260B	Trans-1,2-Dichloroethene	0.52	J	µg/L
MW-215	B	140-155	Apr-08	N	SW8260B	Cis-1,2-Dichloroethene	3		µg/L
MW-215	B	140-155	Apr-08	N	SW8260B	Chlorform	0.16	J	µg/L
MW-215	B	140-155	Apr-08	N	SW8260B	Tetrachloroethene	0.3	J	µg/L
MW-215*	B	140-155	Dec-09	N	SW8260B	1,2,4-Trimethylbenzene	0.44	J	µg/L
MW-215*	B	140-155	Dec-09	N	SW8260B	cis-1,2-Dichloroethene	27		µg/L
MW-215*	B	140-155	Dec-09	N	SW8260B	trans-1,2-Dichloroethene	2.8		µg/L
MW-215*	B	140-155	Dec-09	N	SW8260B	Trichloroethene	150		µg/L
MW-261	C	177-197	Dec-91	N	SW8260B	Trichloroethene	28		µg/L
MW-261	C	177-197	Dec-91	N	SW8260B	Toluene	0.5		µg/L
MW-261	C	177-197	Jul-92	N	SW8260B	Trichloroethene	2.8		µg/L
MW-261	C	177-197	Oct-92	N	SW8260B	Trichloroethene	1.6	J	µg/L
MW-261	C	177-197	Jan-93	N	SW8260B	Trichloroethene	5.5		µg/L
MW-261	C	177-197	May-93	N	SW8260B	Trichloroethene	140	D	µg/L
MW-261	C	177-197	May-93	N	SW8260B	Toluene	4.8		µg/L
MW-261	C	177-197	Aug-93	N	SW8260B	Trichloroethene	110	JN	µg/L
MW-261	C	177-197	Aug-93	N	SW8260B	Toluene	1.7	J	µg/L
MW-261	C	177-197	Nov-93	N	SW8260B	Trichloroethene	65		µg/L
MW-261	C	177-197	Jan-94	N	SW8260B	Trichloroethene	13		µg/L
MW-261	C	177-197	Apr-94	N	SW8260B	Trichloroethene	11		µg/L
MW-261	C	177-197	Apr-94	N	SW8260B	Tetrachloroethene	0.29	J	µg/L
MW-261	C	177-197	Apr-94	N	SW8260B	Toluene	0.74		µg/L
MW-261	C	177-197	Jul-94	N	SW8260B	Trichloroethene	3.0		µg/L
MW-261	C	177-197	Oct-94	N	SW8260B	Trichloroethene	4.7	C	µg/L
MW-261	C	177-197	Jan-95	N	SW8260B	Trichloroethene	1.1		µg/L
MW-261	C	177-197	Jan-95	N	SW8260B	Tetrachloroethene	0.36	J	µg/L
MW-261	C	177-197	Jan-95	N	SW8260B	Toluene	0.91	JBP	µg/L
MW-261	C	177-197	Apr-95	N	SW8260B	Trichloroethene	3.6		µg/L
MW-261	C	177-197	Jul-95	N	SW8260B	Trichloroethene	2.0		µg/L
MW-261	C	177-197	Oct-95	N	SW8260B	Trichloroethene	1.0		µg/L
MW-261	C	177-197	Oct-95	N	SW8260B	Dichlorodifluoromethane	2.0		µg/L
MW-261	C	177-197	Apr-96	N	SW8260B	Trichloroethene	1.1		µg/L
MW-261	C	177-197	Apr-97	N	SW8260B	Trichloroethene	1.6		µg/L
MW-261	C	177-197	Apr-98	N	SW8260B	Trichloroethene	0.62		µg/L
MW-261	C	177-197	Apr-98	N	SW8260B	Cis-1,2-Dichloroethene	1.2		µg/L
MW-261	C	177-197	Apr-98	N	SW8260B	Trichloroethane	0.21		µg/L
MW-261	C	177-197	Apr-98	N	SW8260B	Tetrachloroethene	1.2		µg/L
MW-261	C	177-197	Apr-99	N	SW8260B	Tetrachloroethene	1.0		µg/L
MW-261	C	177-197	Apr-99	N	SW8260B	Dichlorodifluoromethane	2.0		µg/L
MW-261	C	177-197	Apr-00	N	SW8260B	Tetrachloroethene	0.8	J	µg/L
MW-261	C	177-197	Apr-00	N	SW8260B	Dichlorodifluoromethane	2.0		µg/L
MW-261	C	177-197	Apr-01	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Apr-02	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Apr-03	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Apr-04	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Apr-05	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Jul-05	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Oct-05	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Jan-06	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Apr-06	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Jul-06	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Oct-06	N	SW8260B	Trichloroethene	1.6		µg/L
MW-261	C	177-197	Jan-07	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Apr-07	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Jul-07	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Oct-07	N	SW8260B	Volatile Organic Compounds	ALL ND		

Appendix A

Summary of Historical Groundwater Analytical Results

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Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-261	C	177-197	Jan-08	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Jul-08	N	SW8260B	Trichloroethene	0.19	J	µg/L
MW-261	C	177-197	Jul-08	N	SW8260B	Tetrachloroethene	0.12	J	µg/L
MW-261	C	177-197	Jul-08	N	SW8260B	Toluene	0.43	JB	µg/L
MW-261	C	177-197	Jul-08	N	SW8260B	M&P-Xylene	0.26	JB	µg/L
MW-261	C	177-197	Oct-08	N	SW8260B	Trichloroethene	0.13	J	µg/L
MW-261	C	177-197	Jan-09	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Apr-09	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Jul-09	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Dec-09	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Apr-10	N	SW8260B	Trichloroethene	0.63		µg/L
MW-261	C	177-197	Nov-10	N	SW8260B	Trichloroethene	4.3		µg/L
MW-261	C	177-197	Apr-11	N	SW8260B	cis-1,2-Dichloroethene	0.3	J	µg/L
MW-261	C	177-197	Apr-11	N	SW8260B	Trichloroethene	7.3		µg/L
MW-261	C	177-197	Nov-11	N	SW8260B	Trichloroethene	2.2		µg/L
MW-261	C	177-197	Apr-12	N	SW8260B	Trichloroethene	3.3		µg/L
MW-261	C	177-197	Nov-12	N	SW8260B	Trichloroethene	3.8		µg/L
MW-261	C	177-197	Apr-13	N	SW8260B	cis-1,2-Dichloroethene	0.23	J	µg/L
MW-261	C	177-197	Apr-13	N	SW8260B	Trichloroethene	6.5		µg/L
MW-261	C	177-197	Dec-13	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-261	C	177-197	Apr-14	N	SW8260B	Trichloroethene	4.6		µg/L
MW-261	C	177-197	Apr-14	FD	SW8260B	cis-1,2-Dichloroethene	0.20	J	µg/L
MW-261	C	177-197	Apr-14	FD	SW8260B	Trichloroethene	4.9		µg/L
MW-261	C	177-197	Dec-14	N	SW8260B	Trichloroethene	4.3		µg/L
MW-261	C	177-197	Jun-15	N	SW8260B	Trichloroethene	4.9		µg/L
MW-261	C	177-197	Jun-15	N	SW8260B	cis-1,2-Dichloroethene	0.27	J	µg/L
MW-261	C	177-197	Jun-15	FD	SW8260B	Trichloroethene	5.5		µg/L
MW-263	B	140.2-155.2	Dec-91	N	SW8260B	Total 1,2-DCE	1.2		µg/L
MW-263	B	140.2-155.2	Jul-92	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-263	B	140.2-155.2	Oct-92	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-263	B	140.2-155.2	Jan-93	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-263	B	140.2-155.2	May-93	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-263	B	140.2-155.2	Aug-93	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-263	B	140.2-155.2	Nov-93	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-263	B	140.2-155.2	Jan-94	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-263	B	140.2-155.2	Apr-94	N	SW8260B	Trichloroethylene	0.23	J	µg/L
MW-263	B	140.2-155.2	Apr-95	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-263	B	140.2-155.2	Apr-96	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-263	B	140.2-155.2	Apr-97	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-263	B	140.2-155.2	Apr-03	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-263	B	140.2-155.2	Oct-03	N	SW8260B	Trichloroethylene	0.89	J	µg/L
MW-263	B	140.2-155.2	Oct-03	N	SW8260B	Cis-1,2-Dichloroethylene	0.39	J	µg/L
MW-263	B	140.2-155.2	Apr-04	N	SW8260B	Trichloroethylene	2.1		µg/L
MW-263	B	140.2-155.2	Apr-04	N	SW8260B	Cis-1,2-Dichloroethylene	0.4	J	µg/L
MW-263	B	140.2-155.2	Oct-04	N	SW8260B	Trichloroethylene	2.1		µg/L
MW-263	B	140.2-155.2	Oct-04	N	SW8260B	Cis-1,2-Dichloroethylene	0.45	J	µg/L
MW-263	B	140.2-155.2	Apr-05	N	SW8260B	Trichloroethylene	2.4		µg/L
MW-263	B	140.2-155.2	Apr-05	N	SW8260B	Cis-1,2-Dichloroethylene	0.39	J	µg/L
MW-263	B	140.2-155.2	Jul-05	N	SW8260B	Trichloroethylene	12		µg/L
MW-263	B	140.2-155.2	Jul-05	N	SW8260B	Cis-1,2-Dichloroethylene	1.9		µg/L
MW-263	B	140.2-155.2	Oct-05	N	SW8260B	Trichloroethylene	8.4		µg/L
MW-263	B	140.2-155.2	Oct-05	N	SW8260B	Cis-1,2-Dichloroethylene	2.1		µg/L
MW-263	B	140.2-155.2	Jan-06	N	SW8260B	Trichloroethylene	3.6		µg/L
MW-263	B	140.2-155.2	Jan-06	N	SW8260B	Cis-1,2-Dichloroethylene	1.2		µg/L
MW-263	B	140.2-155.2	Apr-06	N	SW8260B	Trichloroethylene	3.6		µg/L
MW-263	B	140.2-155.2	Apr-06	N	SW8260B	Cis-1,2-Dichloroethylene	0.82	J	µg/L
MW-263	B	140.2-155.2	Jul-06	N	SW8260B	Trichloroethylene	5.1		µg/L
MW-263	B	140.2-155.2	Jul-06	N	SW8260B	Trans-1,2-Dichloroethylene	0.38	J	µg/L
MW-263	B	140.2-155.2	Jul-06	N	SW8260B	Cis-1,2-Dichloroethylene	1.8		µg/L
MW-263	B	140.2-155.2	Oct-06	N	SW8260B	Trichloroethylene	3.6		µg/L

Appendix A

Summary of Historical Groundwater Analytical Results

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Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-263	B	140.2-155.2	Oct-06	N	SW8260B	Cis-1,2-Dichloroethylene	2.0		µg/L
MW-263	B	140.2-155.2	Jan-07	N	SW8260B	Trichloroethylene	2.6		µg/L
MW-263	B	140.2-155.2	Jan-07	N	SW8260B	Cis-1,2-Dichloroethylene	0.79	J	µg/L
MW-263	B	140.2-155.2	Apr-07	N	SW8260B	Trichloroethylene	1.8		µg/L
MW-263	B	140.2-155.2	Apr-07	N	SW8260B	Cis-1,2-Dichloroethylene	0.49	J	µg/L
MW-263	B	140.2-155.2	Jul-07	N	SW8260B	Trichloroethylene	4.0		µg/L
MW-263	B	140.2-155.2	Jul-07	N	SW8260B	Cis-1,2-Dichloroethylene	0.81	J	µg/L
MW-263	B	140.2-155.2	Oct-07	N	SW8260B	Trichloroethylene	4.8		µg/L
MW-263	B	140.2-155.2	Oct-07	N	SW8260B	Trans-1,2-Dichloroethylene	0.18	J	µg/L
MW-263	B	140.2-155.2	Oct-07	N	SW8260B	Cis-1,2-Dichloroethylene	0.93	J	µg/L
MW-263	B	140.2-155.2	Jan-08	N	SW8260B	Trichloroethylene	3.3		µg/L
MW-263	B	140.2-155.2	Jan-08	N	SW8260B	Cis-1,2-Dichloroethylene	0.43	J	µg/L
MW-263	B	140.2-155.2	Jan-08	N	SW8260B	Tetrachloroethene	0.38	J	µg/L
MW-263	B	140.2-155.2	Apr-08	N	SW8260B	Trichloroethylene	5.5		µg/L
MW-263	B	140.2-155.2	Apr-08	N	SW8260B	Trans-1,2-Dichloroethylene	0.13	J	µg/L
MW-263	B	140.2-155.2	Apr-08	N	SW8260B	Cis-1,2-Dichloroethylene	0.56	J	µg/L
MW-263	B	140.2-155.2	Apr-08	N	SW8260B	Tetrachloroethene	0.14	J	µg/L
MW-274	C	201-221	Jul-09	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-274	C	201-221	Apr-10	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-274	C	201-221	Apr-11	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-274	C	201-221	Apr-12	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-274	C	201-221	Apr-13	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-274	C	201-221	Apr-14	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-274	C	201-221	Jun-15	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-289	D	216.1-236.1	Jul-92	N	SW8260B	Trichloroethene	3.6		µg/L
MW-289	D	216.1-236.1	Jul-92	N	SW8260B	Tetrachloroethene	1.4		µg/L
MW-289	D	216.1-236.1	Jul-92	N	SW8260B	Total 1,2-DCE	2.5		µg/L
MW-289	D	216.1-236.1	Oct-92	N	SW8260B	Trichloroethene	11		µg/L
MW-289	D	216.1-236.1	Oct-92	N	SW8260B	Tetrachloroethene	1.0		µg/L
MW-289	D	216.1-236.1	Oct-92	N	SW8260B	Total 1,2-DCE	2.6		µg/L
MW-289	D	216.1-236.1	Oct-92	N	SW8260B	Dichlorodifluoromethane	1.7	B	µg/L
MW-289	D	216.1-236.1	Oct-92	N	SW8260B	Toluene	2.8		µg/L
MW-289	D	216.1-236.1	Jan-93	N	SW8260B	Trichloroethene	9.0		µg/L
MW-289	D	216.1-236.1	Jan-93	N	SW8260B	Tetrachloroethene	1.3	J	µg/L
MW-289	D	216.1-236.1	Jan-93	N	SW8260B	Total 1,2-DCE	2.3		µg/L
MW-289	D	216.1-236.1	May-93	N	SW8260B	Trichloroethene	20	J	µg/L
MW-289	D	216.1-236.1	May-93	N	SW8260B	Total 1,2-DCE	3.2		µg/L
MW-289	D	216.1-236.1	Aug-93	N	SW8260B	Trichloroethene	24	J	µg/L
MW-289	D	216.1-236.1	Aug-93	N	SW8260B	Tetrachloroethene	1.8		µg/L
MW-289	D	216.1-236.1	Aug-93	N	SW8260B	Total 1,2-DCE	6.2		µg/L
MW-289	D	216.1-236.1	Aug-93	N	SW8260B	Toluene	1.9		µg/L
MW-289	D	216.1-236.1	Nov-93	N	SW8260B	Trichloroethene	16		µg/L
MW-289	D	216.1-236.1	Nov-93	N	SW8260B	Total 1,2-DCE	3.0		µg/L
MW-289	D	216.1-236.1	Nov-93	N	SW8260B	1,1-Dichloroethene	0.24	J	µg/L
MW-289	D	216.1-236.1	Jan-94	N	SW8260B	Trichloroethene	11	C	µg/L
MW-289	D	216.1-236.1	Jan-94	N	SW8260B	Total 1,2-DCE	3.16		µg/L
MW-289	D	216.1-236.1	Apr-94	N	SW8260B	Trichloroethene	12		µg/L
MW-289	D	216.1-236.1	Apr-94	N	SW8260B	Trans-1,2-Dichloroethene	0.19	J	µg/L
MW-289	D	216.1-236.1	Apr-94	N	SW8260B	Cis-1,2-Dichloroethene	3.1	JN	µg/L
MW-289	D	216.1-236.1	Apr-94	N	SW8260B	Trichloroethane	0.086	JP	µg/L
MW-289	D	216.1-236.1	Apr-94	N	SW8260B	Tetrachloroethene	0.87	P	µg/L
MW-289	D	216.1-236.1	Apr-94	N	SW8260B	Total 1,2-DCE	3.29	JN	µg/L
MW-289	D	216.1-236.1	Apr-94	N	SW8260B	Toluene	0.29	P	µg/L
MW-289	D	216.1-236.1	Jul-94	N	SW8260B	Trichloroethene	22		µg/L
MW-289	D	216.1-236.1	Jul-94	N	SW8260B	Cis-1,2-Dichloroethene	3.0		µg/L
MW-289	D	216.1-236.1	Jul-94	N	SW8260B	Tetrachloroethene	1.0		µg/L
MW-289	D	216.1-236.1	Oct-94	N	SW8260B	Trichloroethene	35	C	µg/L
MW-289	D	216.1-236.1	Oct-94	N	SW8260B	Cis-1,2-Dichloroethene	5.2	C	µg/L
MW-289	D	216.1-236.1	Jan-95	N	SW8260B	Trichloroethene	38		µg/L
MW-289	D	216.1-236.1	Jan-95	N	SW8260B	Trans-1,2-Dichloroethene	0.5	J	µg/L

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Summary of Historical Groundwater Analytical Results

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Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-289	D	216.1-236.1	Jan-95	N	SW8260B	Cis-1,2-Dichloroethene	5.6		µg/L
MW-289	D	216.1-236.1	Jan-95	N	SW8260B	Trichloroethane	0.28	JP	µg/L
MW-289	D	216.1-236.1	Jan-95	N	SW8260B	Tetrachloroethene	1.6		µg/L
MW-289	D	216.1-236.1	Jan-95	N	SW8260B	Toluene	0.41	JB	µg/L
MW-289	D	216.1-236.1	Apr-95	N	SW8260B	Trichloroethene	35		µg/L
MW-289	D	216.1-236.1	Apr-95	N	SW8260B	Cis-1,2-Dichloroethene	4.4		µg/L
MW-289	D	216.1-236.1	Apr-95	N	SW8260B	Tetrachloroethene	1.3		µg/L
MW-289	D	216.1-236.1	Apr-95	N	SW8260B	Dichlorodifluoromethane	6.4		µg/L
MW-289	D	216.1-236.1	Jul-95	N	SW8260B	Trichloroethene	12		µg/L
MW-289	D	216.1-236.1	Jul-95	N	SW8260B	Cis-1,2-Dichloroethene	3.0		µg/L
MW-289	D	216.1-236.1	Jul-95	N	SW8260B	Tetrachloroethene	1.0		µg/L
MW-289	D	216.1-236.1	Jul-95	N	SW8260B	Dichlorodifluoromethane	3.0		µg/L
MW-289	D	216.1-236.1	Oct-95	N	SW8260B	Trichloroethene	6.0		µg/L
MW-289	D	216.1-236.1	Oct-95	N	SW8260B	Cis-1,2-Dichloroethene	2.0		µg/L
MW-289	D	216.1-236.1	Oct-95	N	SW8260B	Dichlorodifluoromethane	1.0		µg/L
MW-289	D	216.1-236.1	Jan-96	N	SW8260B	Trichloroethene	3.0		µg/L
MW-289	D	216.1-236.1	Jan-96	N	SW8260B	Cis-1,2-Dichloroethene	1.0		µg/L
MW-289	D	216.1-236.1	Apr-96	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-289	D	216.1-236.1	Jul-96	N	SW8260B	Trichloroethene	1.9		µg/L
MW-289	D	216.1-236.1	Oct-96	N	SW8260B	Trichloroethene	1.1		µg/L
MW-289	D	216.1-236.1	Jan-97	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-289	D	216.1-236.1	Apr-97	N	SW8260B	Trichloroethene	0.7	J	µg/L
MW-289	D	216.1-236.1	Jul-97	N	SW8260B	Trichloroethene	0.87		µg/L
MW-289	D	216.1-236.1	Oct-97	N	SW8260B	Trichloroethene	0.47		µg/L
MW-289	D	216.1-236.1	Jan-98	N	SW8260B	Trichloroethene	0.33	P	µg/L
MW-289	D	216.1-236.1	Apr-98	N	SW8260B	Trichloroethene	0.22		µg/L
MW-289	D	216.1-236.1	Apr-98	N	SW8260B	Chloromethane	0.23	J	µg/L
MW-289	D	216.1-236.1	Jul-98	N	SW8260B	Trichloroethene	0.6	J	µg/L
MW-289	D	216.1-236.1	Oct-98	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-289	D	216.1-236.1	Jan-99	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-289	D	216.1-236.1	Apr-99	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-289	D	216.1-236.1	Jul-99	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-289	D	216.1-236.1	Oct-99	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-289	D	216.1-236.1	Jan-00	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-289	D	216.1-236.1	Apr-00	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-289	D	216.1-236.1	Jul-00	N	SW8260B	Trichloroethene	4.6		µg/L
MW-289	D	216.1-236.1	Jul-00	N	SW8260B	Cis-1,2-Dichloroethene	0.77	J	µg/L
MW-289	D	216.1-236.1	Oct-00	N	SW8260B	Trichloroethene	3.3		µg/L
MW-289	D	216.1-236.1	Oct-00	N	SW8260B	Cis-1,2-Dichloroethene	0.82	J	µg/L
MW-289	D	216.1-236.1	Jan-01	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-289	D	216.1-236.1	Apr-01	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-289	D	216.1-236.1	Jul-01	N	SW8260B	Trichloroethene	1.7		µg/L
MW-289	D	216.1-236.1	Jul-01	N	SW8260B	Cis-1,2-Dichloroethene	0.53	J	µg/L
MW-289	D	216.1-236.1	Oct-01	N	SW8260B	Trichloroethene	2.0		µg/L
MW-289	D	216.1-236.1	Oct-01	N	SW8260B	Cis-1,2-Dichloroethene	0.56	J	µg/L
MW-289	D	216.1-236.1	Jan-02	N	SW8260B	Trichloroethene	0.7	J	µg/L
MW-289	D	216.1-236.1	Apr-02	N	SW8260B	Trichloroethene	2.2		µg/L
MW-289	D	216.1-236.1	Apr-02	N	SW8260B	Cis-1,2-Dichloroethene	0.65	J	µg/L
MW-289	D	216.1-236.1	Jul-02	N	SW8260B	Trichloroethene	1.0		µg/L
MW-289	D	216.1-236.1	Jul-02	N	SW8260B	Cis-1,2-Dichloroethene	0.94	J	µg/L
MW-289	D	216.1-236.1	Oct-02	N	SW8260B	Trichloroethene	1.6		µg/L
MW-289	D	216.1-236.1	Oct-02	N	SW8260B	Cis-1,2-Dichloroethene	1.0		µg/L
MW-289	D	216.1-236.1	Jan-03	N	SW8260B	Trichloroethene	3.0		µg/L
MW-289	D	216.1-236.1	Jan-03	N	SW8260B	Cis-1,2-Dichloroethene	1.2		µg/L
MW-289	D	216.1-236.1	Apr-03	N	SW8260B	Trichloroethene	1.7		µg/L
MW-289	D	216.1-236.1	Apr-03	N	SW8260B	Cis-1,2-Dichloroethene	0.57	J	µg/L
MW-289	D	216.1-236.1	Jul-03	N	SW8260B	Trichloroethene	3.1		µg/L
MW-289	D	216.1-236.1	Jul-03	N	SW8260B	Cis-1,2-Dichloroethene	1.2		µg/L
MW-289	D	216.1-236.1	Oct-03	N	SW8260B	Trichloroethene	3.8		µg/L
MW-289	D	216.1-236.1	Oct-03	N	SW8260B	Cis-1,2-Dichloroethene	0.95	J	µg/L

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Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-289	D	216.1-236.1	Jan-04	N	SW8260B	Trichloroethene	4.1		µg/L
MW-289	D	216.1-236.1	Jan-04	N	SW8260B	Cis-1,2-Dichloroethene	0.84	J	µg/L
MW-289	D	216.1-236.1	Apr-04	N	SW8260B	Trichloroethene	1.9		µg/L
MW-289	D	216.1-236.1	Apr-04	N	SW8260B	Cis-1,2-Dichloroethene	0.48	J	µg/L
MW-289	D	216.1-236.1	Jul-04	N	SW8260B	Trichloroethene	3.4		µg/L
MW-289	D	216.1-236.1	Jul-04	N	SW8260B	Cis-1,2-Dichloroethene	0.67	J	µg/L
MW-289	D	216.1-236.1	Oct-04	N	SW8260B	Trichloroethene	3.7		µg/L
MW-289	D	216.1-236.1	Oct-04	N	SW8260B	Cis-1,2-Dichloroethene	0.57	J	µg/L
MW-289	D	216.1-236.1	Jan-05	N	SW8260B	Trichloroethene	2.1		µg/L
MW-289	D	216.1-236.1	Jan-05	N	SW8260B	Cis-1,2-Dichloroethene	0.32	J	µg/L
MW-289	D	216.1-236.1	Apr-05	N	SW8260B	Trichloroethene	2.6		µg/L
MW-289	D	216.1-236.1	Apr-05	N	SW8260B	Cis-1,2-Dichloroethene	0.45	J	µg/L
MW-289	D	216.1-236.1	Apr-05	N	SW8260B	Dichlorodifluoromethane	0.44	J	µg/L
MW-289	D	216.1-236.1	Jul-06	N	SW8260B	Trichloroethene	3.8		µg/L
MW-289	D	216.1-236.1	Jul-07	N	SW8260B	Trichloroethene	2.7		µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	Trichloroethene	0.84	J	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	Cis-1,2-Dichloroethene	0.4	J	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	Tetrachloroethene	0.11	J	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	Benzene	0.2	JB	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	Chlorobenzene	0.17	J	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	Chloromethane	0.36	J	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	Dibromochloromethane	0.43	J	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	1,2-Dichlorobenzene	0.21	J	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	Ethylbenzene	0.77	JB	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	Napthalene	0.44	J	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	N-Propylbenzene	0.2	JB	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	Toluene	2.7	B	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	1,2,4-Trimethylbenzene	1.6	B	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	1,3,5-Trimethylbenzene	0.43	JB	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	Xylene	5.5	B	µg/L
MW-289	D	216.1-236.1	Jul-08	N	SW8260B	Bromine	0.44	J	µg/L
MW-289	D	216.1-236.1	Jul-09	N	SW8260B	Trichloroethene	2.3		µg/L
MW-289	D	216.1-236.1	Jul-09	N	SW8260B	Tetrachloroethene	0.31	J	µg/L
MW-289	D	216.1-236.1	Dec-09	N	SW8260B	Trichloroethene	2		µg/L
MW-289	D	216.1-236.1	Apr-10	N	SW8260B	Tetrachloroethene	0.3	J	µg/L
MW-289	D	216.1-236.1	Apr-10	N	SW8260B	Trichloroethene	1.8		µg/L
MW-289	D	216.1-236.1	Nov-11	N	SW8260B	Trichloroethene	1.3		µg/L
MW-289	D	216.1-236.1	Apr-12	N	SW8260B	Trichloroethene	0.31	J	µg/L
MW-289	D	216.1-236.1	Nov-12	N	SW8260B	Tetrachloroethene	0.27	J	µg/L
MW-289	D	216.1-236.1	Nov-12	N	SW8260B	Trichloroethene	0.84		µg/L
MW-289	D	216.1-236.1	Apr-13	N	SW8260B	Trichloroethene	0.65		µg/L
MW-289	D	216.1-236.1	Apr-14	N	SW8260B	Tetrachloroethene	0.27	J	µg/L
MW-289	D	216.1-236.1	Apr-14	N	SW8260B	Trichloroethene	1.2		µg/L
MW-289	D	216.1-236.1	Jun-15	N	SW8260B	Tetrachloroethene	0.36	J	µg/L
MW-289	D	216.1-236.1	Jun-15	N	SW8260B	Trichloroethene	1.3		µg/L
MW-401	C	175-190	Jan-06	N	SW8260B	Trichloroethene	2.3		µg/L
MW-401	C	175-190	Apr-06	N	SW8260B	Trichloroethene	2.2		µg/L
MW-401	C	175-190	Jul-06	N	SW8260B	Trichloroethene	1.2		µg/L
MW-401	C	175-190	Oct-06	N	SW8260B	Trichloroethene	1.2		µg/L
MW-401	C	175-190	Jan-07	N	SW8260B	Trichloroethene	0.71	J	µg/L
MW-401	C	175-190	Apr-07	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-401	C	175-190	Jul-07	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-401	C	175-190	Oct-07	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-401	C	175-190	Jan-08	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-401	C	175-190	Apr-08	N	SW8260B	Trichloroethene	0.25	J	µg/L
MW-401	C	175-190	Apr-08	N	SW8260B	Tetrachloroethene	0.16	J	µg/L
MW-401	C	175-190	Jul-08	N	SW8260B	Trichloroethene	0.27	J	µg/L
MW-401	C	175-190	Jul-08	N	SW8260B	Tetrachloroethene	0.12	J	µg/L
MW-401	C	175-190	Jul-08	N	SW8260B	Chloromethane	0.28	J	µg/L
MW-401	C	175-190	Jul-08	N	SW8260B	Toluene	0.49	JB	µg/L

Appendix A

Summary of Historical Groundwater Analytical Results

Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-401	C	175-190	Jul-08	N	SW8260B	Xylene	0.22	JB	µg/L
MW-401	C	175-190	Oct-08	N	SW8260B	Trichloroethene	0.25	J	µg/L
MW-401	C	175-190	Oct-08	N	SW8260B	Benzene	0.14	J	µg/L
MW-401	C	175-190	Oct-08	N	SW8260B	Ethylbenzene	0.58	J	µg/L
MW-401	C	175-190	Oct-08	N	SW8260B	Toluene	2.1		µg/L
MW-401	C	175-190	Oct-08	N	SW8260B	1,2,4-Trimethylbenzene	0.68	J	µg/L
MW-401	C	175-190	Oct-08	N	SW8260B	1,3,5-Trimethylbenzene	0.26	J	µg/L
MW-401	C	175-190	Oct-08	N	SW8260B	Xylene	3.7		µg/L
MW-401	C	175-190	Jan-09	N	SW8260B	Trichloroethene	1	J	µg/L
MW-401	C	175-190	Jan-09	N	SW8260B	Cis-1,2-Dichloroethene	0.24	J	µg/L
MW-401	C	175-190	Jan-09	N	SW8260B	Tetrachloroethene	0.11	J	µg/L
MW-401	C	175-190	Apr-09	N	SW8260B	Trichloroethene	1.0		µg/L
MW-401	C	175-190	Jul-09	N	SW8260B	Trichloroethene	1.2		µg/L
MW-401	C	175-190	Dec-09	N	SW8260B	Trichloroethene	0.6		µg/L
MW-401	C	175-190	Apr-10	N	SW8260B	cis-1,2-Dichloroethene	1		µg/L
MW-401	C	175-190	Apr-10	N	SW8260B	Tetrachloroethene	0.31	J	µg/L
MW-401	C	175-190	Apr-10	N	SW8260B	Trichloroethene	8.6		µg/L
MW-401	C	175-190	Nov-10	N	SW8260B	cis-1,2-Dichloroethene	0.65		µg/L
MW-401	C	175-190	Nov-10	N	SW8260B	Tetrachloroethylene	0.24	J	µg/L
MW-401	C	175-190	Nov-10	N	SW8260B	Trichloroethene	6.6		µg/L
MW-401	C	175-190	Apr-11	N	SW8260B	Chloroform	0.17	J	µg/L
MW-401	C	175-190	Apr-11	N	SW8260B	cis-1,2-Dichloroethene	1.3		µg/L
MW-401	C	175-190	Apr-11	N	SW8260B	Dichlorodifluoromethane	0.32	J	µg/L
MW-401	C	175-190	Apr-11	N	SW8260B	Tetrachloroethene	0.38	J	µg/L
MW-401	C	175-190	Apr-11	N	SW8260B	Trichloroethene	12		µg/L
MW-401	C	175-190	Nov-11	N	SW8260B	cis-1,2-Dichloroethene	0.46	J	µg/L
MW-401	C	175-190	Nov-11	N	SW8260B	Tetrachloroethene	0.44	J	µg/L
MW-401	C	175-190	Nov-11	N	SW8260B	Trichloroethene	4.8		µg/L
MW-401	C	175-190	Apr-12	N	SW8260B	cis-1,2-Dichloroethene	0.24	J	µg/L
MW-401	C	175-190	Apr-12	N	SW8260B	Tetrachloroethene	0.48	J	µg/L
MW-401	C	175-190	Apr-12	N	SW8260B	Trichloroethene	3.8		µg/L
MW-401	C	175-190	Nov-12	N	SW8260B	cis-1,2-Dichloroethene	0.54		µg/L
MW-401	C	175-190	Nov-12	N	SW8260B	Tetrachloroethene	0.5		µg/L
MW-401	C	175-190	Nov-12	N	SW8260B	Trichloroethene	7.1		µg/L
MW-401	C	175-190	Apr-13	N	SW8260B	cis-1,2-Dichloroethene	0.55		µg/L
MW-401	C	175-190	Apr-13	N	SW8260B	Tetrachloroethene	0.48	J	µg/L
MW-401	C	175-190	Apr-13	N	SW8260B	Trichloroethene	8.6		µg/L
MW-401	C	175-190	Dec-13	N	SW8260B	cis-1,2-Dichloroethene	0.57		µg/L
MW-401	C	175-190	Dec-13	N	SW8260B	Tetrachloroethene	0.38	J	µg/L
MW-401	C	175-190	Dec-13	N	SW8260B	Trichloroethene	8		µg/L
MW-401	C	175-190	Jun-14	N	SW8260B	cis-1,2-Dichloroethene	0.64		µg/L
MW-401	C	175-190	Jun-14	N	SW8260B	Tetrachloroethene	0.45	J	µg/L
MW-401	C	175-190	Jun-14	N	SW8260B	Trichloroethene	9.1		µg/L
MW-401	C	175-190	Dec-14	N	SW8260B	cis-1,2-Dichloroethene	0.45	J	µg/L
MW-401	C	175-190	Dec-14	N	SW8260B	Tetrachloroethene	0.37	J	µg/L
MW-401	C	175-190	Dec-14	N	SW8260B	Trichloroethene	8		µg/L
MW-401	C	175-190	Dec-14	FD	SW8260B	cis-1,2-Dichloroethene	0.43	J	µg/L
MW-401	C	175-190	Dec-14	FD	SW8260B	Tetrachloroethene	0.37	J	µg/L
MW-401	C	175-190	Dec-14	FD	SW8260B	Trichloroethene	7.6		µg/L
MW-401	C	175-190	Jun-15	N	SW8260B	cis-1,2-Dichloroethene	0.58		µg/L
MW-401	C	175-190	Jun-15	N	SW8260B	Tetrachloroethene	0.40	J	µg/L
MW-401	C	175-190	Jun-15	N	SW8260B	Trichloroethene	8.3		µg/L
MW-401	C	175-190	Nov-15	N	SW8260B	Chloromethane	0.84	J	µg/L
MW-401	C	175-190	Nov-15	N	SW8260B	Trichloroethene	0.95		µg/L
MW-402	B	150-190	Mar-12	N	E160.1	Residue, Filterable (TDS)	910		mg/L
MW-402	B	150-190	Mar-12	N	E300.0	Chloride	13		mg/L
MW-402	B	150-190	Mar-12	N	E300.0	Nitrate-N	11		mg/L
MW-402	B	150-190	Mar-12	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-403	B	149-189	Mar-12	N	E160.1	Residue, Filterable (TDS)	480		mg/L
MW-403	B	149-189	Mar-12	N	E300.0	Chloride	13		mg/L

Appendix A

Summary of Historical Groundwater Analytical Results

Basewide Groundwater Monitoring 2015 Annual Report, Former Norton Air Force Base, San Bernardino, California

Well	Zone	Screen Interval	Sample Date	Sample Type	Test Method	Analyte/Test Name	Result	Flag	Units
MW-403	B	149-189	Mar-12	N	E300.0	Nitrate-N	3.4		mg/L
MW-403	B	149-189	Mar-12	N	E300.0	Sulfate	46		mg/L
MW-403	B	149-189	Mar-12	N	SW8260B	Tetrachloroethene	0.6		µg/L
MW-404	B	156-196	Mar-12	N	E160.1	Residue, Filterable (TDS)	152		mg/L
MW-404	B	156-196	Mar-12	N	E300.0	Chloride	9.8		mg/L
MW-404	B	156-196	Mar-12	N	E300.0	Nitrate-N	1.6		mg/L
MW-404	B	156-196	Mar-12	N	E300.0	Sulfate	15		mg/L
MW-404	B	156-196	Mar-12	N	SW8260B	Volatile Organic Compounds	ALL ND		
MW-404	B	156-196	Mar-12	FD	E160.1	Residue, Filterable (TDS)	226		mg/L
MW-404	B	156-196	Mar-12	FD	E300.0	Chloride	9.8		mg/L
MW-404	B	156-196	Mar-12	FD	E300.0	Nitrate-N	1.7		mg/L
MW-404	B	156-196	Mar-12	FD	E300.0	Sulfate	15		mg/L
MW-404	B	156-196	Mar-12	FD	SW8260B	Volatile Organic Compounds	ALL ND		

Notes:

Samples collected in Q2 and Q4 2014 are in **BOLD**.

* MW-215 sample collected from end cap of well. Sample not representative of actual groundwater condition.

FD = field duplicate

mg/L = milligram per liter

N = native sample

ND = non-detect

µg/L = microgram per liter

Zones:

B = Well screened approximately 50 feet below water table (1991)

C = Well screened approximately 100 feet below water table (1991)

D = Well screened approximately 150 feet below water table (1991)

Flags

B = Analyte found in associated blank as well as in sample

C = Value confirmed by gc/ms

D = Compound identified in an analysis at a secondary dilution factor

J = Numerical value is the approximate concentration of the analyte in the sample

P = Lower of two values is reported when there is greater than 25% difference for detected concentrations between the two gc columns

Appendix B
Second and Fourth Quarter 2015
Laboratory Analytical Reports

Date Reported:
17-Jun-15

Spectrum Analytical, Inc.

Laboratory Report

- Final Report
 Re-Issued Report
 Revised Report

CH2M Hill
2525 Airpark Dr.
Redding, CA 96001

Project # 3515596
Project: NORTON GW MONITORING Q22015

Attn: Mark Fesler

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
351559601	MW-261-GW-Q22015B	W	11-Jun-15 12:10	13-Jun-15 9:55
351559602	MW184-GW-Q22015	W	11-Jun-15 13:45	13-Jun-15 9:55
351559603	MW261-GW-Q22015	W	11-Jun-15 12:05	13-Jun-15 9:55
351559604	MW274-GW-Q22015	W	11-Jun-15 16:15	13-Jun-15 9:55
351559605	MW289-GW-Q22015	W	11-Jun-15 17:45	13-Jun-15 9:55
351559606	MW401-GW-Q22015	W	11-Jun-15 17:00	13-Jun-15 9:55
351559607	TBNO-Q22015-01	W	11-Jun-15 10:00	13-Jun-15 9:55

Soil samples are reported on dry weight basis, unless otherwise noted.

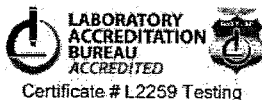
Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis.

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met unless noted in the case narrative.

Please contact the laboratory at 813-888-9507 with any questions regarding the data contained in the laboratory report.

Florida	E84207
Texas	T104704408-14-6
South Carolina	96011001
North Dakota	R-178
California	2908
Louisiana	02025
Arkansas	14-036-0
New Jersey	FL020



Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Brian Spann".

Brian Spann
Laboratory Director
Spectrum Analytical, Inc. Florida Division

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Executive Summary - Detection Highlights

3515596

Sample ID MW261-GW-Q22015

Analyte	Result	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	0.27 J	0.50	ug/L	SW8260C
Trichloroethene	4.9	0.50	ug/L	SW8260C

Sample ID MW-261-GW-Q22015B

Analyte	Result	Reporting Limit	Units	Analytical Method
Trichloroethene	5.5	0.50	ug/L	SW8260C

Sample ID MW289-GW-Q22015

Analyte	Result	Reporting Limit	Units	Analytical Method
Tetrachloroethene	0.36 J	0.50	ug/L	SW8260C
Trichloroethene	1.3	0.50	ug/L	SW8260C

Sample ID MW401-GW-Q22015

Analyte	Result	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	0.58	0.50	ug/L	SW8260C
Tetrachloroethene	0.4 J	0.50	ug/L	SW8260C
Trichloroethene	8.3	0.50	ug/L	SW8260C

Organics

Organic Data Qualifiers

- U** Indicates the analyte was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that analyte. The reporting limit can vary from sample to sample depending on dilution factors or the percent moisture adjustment when indicated.
- J** Indicates estimated value. It is used when the data indicates the presence of an analyte above the method detection limit (MDL) yet lower than the reporting limit.
- B** Indicates the analyte was found in the associated blank as well as in the sample. The notation indicates possible contamination of the sample.
- E** Indicates the value reported is above the highest calibration standard for that analyte. The sample should be analyzed at an appropriate dilution. "E" qualified values are estimations and the diluted result may be reported on another Form 1.
- D** Indicates the analyte has been identified in a dilution reanalysis. "D" qualifiers are used for samples that have been analyzed at a lesser dilution than required for accurate quantitation.
- C** The "C" qualifier indicates the presence of this analyte has been confirmed by GC/MS analysis.
- P** This qualifier is used for pesticide / Aroclor target analytes where there is greater than 40% difference for the detected concentration between the two GC columns.
- N** This qualifier indicates presumptive evidence of an analyte. This qualifier is only used for tentatively identified compounds (TIC), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.
- A** This qualifier indicates that a TIC is a suspected aldol-condensation product.
- X** Data flagged as rejected by analyst utilizing analytical judgement.
- Q** Indicates estimated value. The reported value did not meet established quality control criteria for either precision or accuracy. Please refer to the method narrative for further information.

Organic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for organic analysis are defined below:

- DL** Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.
- R** Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.
- RE** Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.
- MS** Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).
- SD** Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

SW8260C Volatile Organics

**CASE NARRATIVE
Volatile Organic**

Spectrum Analytical Inc. Lab Reference No./SDG: 3515596

Client: CH2M Hill

FY

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation:

All holding times were met.

B. Sample Analysis:

All holding times were met.

III. METHODS

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW8260C

IV. PREPARATION

Water samples were prepared by SW846/5030A for volatiles analysis. All aspects of sample preparation proceeded without exception.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

1. Laboratory Control Spikes (LCS)

An LCS/LCSD set was analyzed. All percent recovery and relative percent difference (RPD) criteria were met.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

No spikes requested by client.

E. Internal Standards:

CASE NARRATIVE
Volatile Organic

Spectrum Analytical Inc. Lab Reference No./SDG: 3515596

Client: CH2M Hill

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 
Name: Brian C. Spanik Title: Lab Director

SIGNED:

DATE: 06/16/2015

VOLATILE ORGANIC CROSS REFERENCE TABLE

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q220
Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Method: SW8260C

EPA Sample No	Lab Sample ID
<u>MW-261-GW-Q22015B</u>	<u>351559601</u>
<u>MW184-GW-Q22015</u>	<u>351559602</u>
<u>MW261-GW-Q22015</u>	<u>351559603</u>
<u>MW274-GW-Q22015</u>	<u>351559604</u>
<u>MW289-GW-Q22015</u>	<u>351559605</u>
<u>MW401-GW-Q22015</u>	<u>351559606</u>
<u>TBNO-Q22015-01</u>	<u>351559607</u>

SW8260C Sample Data

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING MW-261-GW-Q22015B

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559601 Lab File ID: 559601.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1253

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
75-71-8	Dichlorodifluoromethane	0.6	U	0.6	1
74-87-3	Chloromethane	0.32	U	0.32	1
75-01-4	Vinyl chloride	0.18	U	0.18	0.7
74-83-9	Bromomethane	0.43	U	0.43	1
75-00-3	Chloroethane	0.72	U	0.72	2
75-69-4	Trichlorofluoromethane	0.4	U	0.4	1
75-35-4	1,1-Dichloroethene	0.19	U	0.19	0.5
75-09-2	Methylene chloride	0.66	U	0.66	2
156-60-5	trans-1,2-Dichloroethene	0.33	U	0.33	1
75-34-3	1,1-Dichloroethane	0.5	U	0.5	1
594-20-7	2,2-Dichloropropane	0.6	U	0.6	1
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	0.5
74-97-5	Bromochloromethane	0.17	U	0.17	1
67-66-3	Chloroform	0.16	U	0.16	0.5
71-55-6	1,1,1-Trichloroethane	0.14	U	0.14	1
56-23-5	Carbon tetrachloride	0.14	U	0.14	0.5
563-58-6	1,1-Dichloropropene	0.3	U	0.3	1
71-43-2	Benzene	0.17	U	0.17	0.5
107-06-2	1,2-Dichloroethane	0.15	U	0.15	1
79-01-6	Trichloroethene	5.5		0.19	0.5
78-87-5	1,2-Dichloropropane	0.15	U	0.15	0.5
74-95-3	Dibromomethane	0.4	U	0.4	1
75-27-4	Bromodichloromethane	0.15	U	0.15	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING MW-261-GW-Q22015B

Lab Code: PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559601 Lab File ID: 559601.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1253

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene	0.4	U	0.4	1
108-88-3	Toluene	0.14	U	0.14	0.5
10061-02-6	trans-1,3-Dichloropropene	0.3	U	0.3	1
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	1
127-18-4	Tetrachloroethene	0.21	U	0.21	0.5
142-28-9	1,3-Dichloropropane	0.3	U	0.3	1
124-48-1	Dibromochloromethane	0.13	U	0.13	1
106-93-4	1,2-Dibromoethane	0.11	U	0.11	1
108-90-7	Chlorobenzene	0.16	U	0.16	0.5
630-20-6	1,1,1,2-Tetrachloroethane	0.14	U	0.14	1
100-41-4	Ethylbenzene	0.22	U	0.22	0.5
179601-23-1	m,p-Xylene	0.23	U	0.23	0.5
95-47-6	o-Xylene	0.5	U	0.5	1
100-42-5	Styrene	0.13	U	0.13	1
75-25-2	Bromoform	0.19	U	0.19	1
98-82-8	Isopropylbenzene	0.14	U	0.14	1
108-86-1	Bromobenzene	0.21	U	0.21	1
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.13	1
96-18-4	1,2,3-Trichloropropane	0.35	U	0.35	1
103-65-1	n-Propylbenzene	0.14	U	0.14	1
95-49-8	2-Chlorotoluene	0.25	U	0.25	1
106-43-4	4-Chlorotoluene	0.15	U	0.15	1
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW-261-GW-Q22015B

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559601 Lab File ID: 559601.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1253

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
98-06-6	tert-Butylbenzene	0.2	U	0.2	1
95-63-6	1,2,4-Trimethylbenzene	0.13	U	0.13	1
135-98-8	sec-Butylbenzene	0.1	U	0.1	1
541-73-1	1,3-Dichlorobenzene	0.15	U	0.15	1
106-46-7	1,4-Dichlorobenzene	0.16	U	0.16	0.5
99-87-6	4-Isopropyltoluene	0.14	U	0.14	1
104-51-8	n-Butylbenzene	0.16	U	0.16	1
95-50-1	1,2-Dichlorobenzene	0.25	U	0.25	0.5
96-12-8	1,2-Dibromo-3-chloropropane	1	U	1	2
120-82-1	1,2,4-Trichlorobenzene	0.4	U	0.4	1
87-68-3	Hexachlorobutadiene	0.36	U	0.36	1
91-20-3	Naphthalene	0.5	U	0.5	1
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.5	1
1634-04-4	Methyl tert-butyl ether	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING MW184-GW-Q22015

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559602 Lab File ID: 559602.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1315

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
75-71-8	Dichlorodifluoromethane	0.6	U	0.6	1
74-87-3	Chloromethane	0.32	U	0.32	1
75-01-4	Vinyl chloride	0.18	U	0.18	0.7
74-83-9	Bromomethane	0.43	U	0.43	1
75-00-3	Chloroethane	0.72	U	0.72	2
75-69-4	Trichlorofluoromethane	0.4	U	0.4	1
75-35-4	1,1-Dichloroethene	0.19	U	0.19	0.5
75-09-2	Methylene chloride	0.66	U	0.66	2
156-60-5	trans-1,2-Dichloroethene	0.33	U	0.33	1
75-34-3	1,1-Dichloroethane	0.5	U	0.5	1
594-20-7	2,2-Dichloropropane	0.6	U	0.6	1
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	0.5
74-97-5	Bromochloromethane	0.17	U	0.17	1
67-66-3	Chloroform	0.16	U	0.16	0.5
71-55-6	1,1,1-Trichloroethane	0.14	U	0.14	1
56-23-5	Carbon tetrachloride	0.14	U	0.14	0.5
563-58-6	1,1-Dichloropropene	0.3	U	0.3	1
71-43-2	Benzene	0.17	U	0.17	0.5
107-06-2	1,2-Dichloroethane	0.15	U	0.15	1
79-01-6	Trichloroethene	0.19	U	0.19	0.5
78-87-5	1,2-Dichloropropane	0.15	U	0.15	0.5
74-95-3	Dibromomethane	0.4	U	0.4	1
75-27-4	Bromodichloromethane	0.15	U	0.15	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW184-GW-Q22015

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code: PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559602 Lab File ID: 559602.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1315

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene	0.4	U	0.4	1
108-88-3	Toluene	0.14	U	0.14	0.5
10061-02-6	trans-1,3-Dichloropropene	0.3	U	0.3	1
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	1
127-18-4	Tetrachloroethene	0.21	U	0.21	0.5
142-28-9	1,3-Dichloropropane	0.3	U	0.3	1
124-48-1	Dibromochloromethane	0.13	U	0.13	1
106-93-4	1,2-Dibromoethane	0.11	U	0.11	1
108-90-7	Chlorobenzene	0.16	U	0.16	0.5
630-20-6	1,1,1,2-Tetrachloroethane	0.14	U	0.14	1
100-41-4	Ethylbenzene	0.22	U	0.22	0.5
179601-23-1	m,p-Xylene	0.23	U	0.23	0.5
95-47-6	o-Xylene	0.5	U	0.5	1
100-42-5	Styrene	0.13	U	0.13	1
75-25-2	Bromoform	0.19	U	0.19	1
98-82-8	Isopropylbenzene	0.14	U	0.14	1
108-86-1	Bromobenzene	0.21	U	0.21	1
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.13	1
96-18-4	1,2,3-Trichloropropane	0.35	U	0.35	1
103-65-1	n-Propylbenzene	0.14	U	0.14	1
95-49-8	2-Chlorotoluene	0.25	U	0.25	1
106-43-4	4-Chlorotoluene	0.15	U	0.15	1
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW184-GW-Q22015

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559602 Lab File ID: 559602.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1315

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
98-06-6	tert-Butylbenzene	0.2	U	0.2	1
95-63-6	1,2,4-Trimethylbenzene	0.13	U	0.13	1
135-98-8	sec-Butylbenzene	0.1	U	0.1	1
541-73-1	1,3-Dichlorobenzene	0.15	U	0.15	1
106-46-7	1,4-Dichlorobenzene	0.16	U	0.16	0.5
99-87-6	4-Isopropyltoluene	0.14	U	0.14	1
104-51-8	n-Butylbenzene	0.16	U	0.16	1
95-50-1	1,2-Dichlorobenzene	0.25	U	0.25	0.5
96-12-8	1,2-Dibromo-3-chloropropane	1	U	1	2
120-82-1	1,2,4-Trichlorobenzene	0.4	U	0.4	1
87-68-3	Hexachlorobutadiene	0.36	U	0.36	1
91-20-3	Naphthalene	0.5	U	0.5	1
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.5	1
1634-04-4	Methyl tert-butyl ether	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW261-GW-Q22015

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559603 Lab File ID: 559603.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1336

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
75-71-8	Dichlorodifluoromethane	0.6	U	0.6	1
74-87-3	Chloromethane	0.32	U	0.32	1
75-01-4	Vinyl chloride	0.18	U	0.18	0.7
74-83-9	Bromomethane	0.43	U	0.43	1
75-00-3	Chloroethane	0.72	U	0.72	2
75-69-4	Trichlorofluoromethane	0.4	U	0.4	1
75-35-4	1,1-Dichloroethene	0.19	U	0.19	0.5
75-09-2	Methylene chloride	0.66	U	0.66	2
156-60-5	trans-1,2-Dichloroethene	0.33	U	0.33	1
75-34-3	1,1-Dichloroethane	0.5	U	0.5	1
594-20-7	2,2-Dichloropropane	0.6	U	0.6	1
156-59-2	cis-1,2-Dichloroethene	0.27	J	0.19	0.5
74-97-5	Bromochloromethane	0.17	U	0.17	1
67-66-3	Chloroform	0.16	U	0.16	0.5
71-55-6	1,1,1-Trichloroethane	0.14	U	0.14	1
56-23-5	Carbon tetrachloride	0.14	U	0.14	0.5
563-58-6	1,1-Dichloropropene	0.3	U	0.3	1
71-43-2	Benzene	0.17	U	0.17	0.5
107-06-2	1,2-Dichloroethane	0.15	U	0.15	1
79-01-6	Trichloroethene	4.9		0.19	0.5
78-87-5	1,2-Dichloropropane	0.15	U	0.15	0.5
74-95-3	Dibromomethane	0.4	U	0.4	1
75-27-4	Bromodichloromethane	0.15	U	0.15	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW261-GW-Q22015

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559603 Lab File ID: 559603.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1336

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene	0.4	U	0.4	1
108-88-3	Toluene	0.14	U	0.14	0.5
10061-02-6	trans-1,3-Dichloropropene	0.3	U	0.3	1
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	1
127-18-4	Tetrachloroethene	0.21	U	0.21	0.5
142-28-9	1,3-Dichloropropane	0.3	U	0.3	1
124-48-1	Dibromochloromethane	0.13	U	0.13	1
106-93-4	1,2-Dibromoethane	0.11	U	0.11	1
108-90-7	Chlorobenzene	0.16	U	0.16	0.5
630-20-6	1,1,1,2-Tetrachloroethane	0.14	U	0.14	1
100-41-4	Ethylbenzene	0.22	U	0.22	0.5
179601-23-1	m,p-Xylene	0.23	U	0.23	0.5
95-47-6	o-Xylene	0.5	U	0.5	1
100-42-5	Styrene	0.13	U	0.13	1
75-25-2	Bromoform	0.19	U	0.19	1
98-82-8	Isopropylbenzene	0.14	U	0.14	1
108-86-1	Bromobenzene	0.21	U	0.21	1
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.13	1
96-18-4	1,2,3-Trichloropropane	0.35	U	0.35	1
103-65-1	n-Propylbenzene	0.14	U	0.14	1
95-49-8	2-Chlorotoluene	0.25	U	0.25	1
106-43-4	4-Chlorotoluene	0.15	U	0.15	1
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW261-GW-Q22015

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559603 Lab File ID: 559603.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1336

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
98-06-6	tert-Butylbenzene	0.2	U	0.2	1
95-63-6	1,2,4-Trimethylbenzene	0.13	U	0.13	1
135-98-8	sec-Butylbenzene	0.1	U	0.1	1
541-73-1	1,3-Dichlorobenzene	0.15	U	0.15	1
106-46-7	1,4-Dichlorobenzene	0.16	U	0.16	0.5
99-87-6	4-Isopropyltoluene	0.14	U	0.14	1
104-51-8	n-Butylbenzene	0.16	U	0.16	1
95-50-1	1,2-Dichlorobenzene	0.25	U	0.25	0.5
96-12-8	1,2-Dibromo-3-chloropropane	1	U	1	2
120-82-1	1,2,4-Trichlorobenzene	0.4	U	0.4	1
87-68-3	Hexachlorobutadiene	0.36	U	0.36	1
91-20-3	Naphthalene	0.5	U	0.5	1
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.5	1
1634-04-4	Methyl tert-butyl ether	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW274-GW-Q22015

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559604 Lab File ID: 559604.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1357

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
75-71-8	Dichlorodifluoromethane	0.6	U	0.6	1
74-87-3	Chloromethane	0.32	U	0.32	1
75-01-4	Vinyl chloride	0.18	U	0.18	0.7
74-83-9	Bromomethane	0.43	U	0.43	1
75-00-3	Chloroethane	0.72	U	0.72	2
75-69-4	Trichlorofluoromethane	0.4	U	0.4	1
75-35-4	1,1-Dichloroethene	0.19	U	0.19	0.5
75-09-2	Methylene chloride	0.66	U	0.66	2
156-60-5	trans-1,2-Dichloroethene	0.33	U	0.33	1
75-34-3	1,1-Dichloroethane	0.5	U	0.5	1
594-20-7	2,2-Dichloropropane	0.6	U	0.6	1
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	0.5
74-97-5	Bromochloromethane	0.17	U	0.17	1
67-66-3	Chloroform	0.16	U	0.16	0.5
71-55-6	1,1,1-Trichloroethane	0.14	U	0.14	1
56-23-5	Carbon tetrachloride	0.14	U	0.14	0.5
563-58-6	1,1-Dichloropropene	0.3	U	0.3	1
71-43-2	Benzene	0.17	U	0.17	0.5
107-06-2	1,2-Dichloroethane	0.15	U	0.15	1
79-01-6	Trichloroethene	0.19	U	0.19	0.5
78-87-5	1,2-Dichloropropane	0.15	U	0.15	0.5
74-95-3	Dibromomethane	0.4	U	0.4	1
75-27-4	Bromodichloromethane	0.15	U	0.15	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING MW274-GW-Q22015

Lab Code: PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559604 Lab File ID: 559604.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1357

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene	0.4	U	0.4	1
108-88-3	Toluene	0.14	U	0.14	0.5
10061-02-6	trans-1,3-Dichloropropene	0.3	U	0.3	1
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	1
127-18-4	Tetrachloroethene	0.21	U	0.21	0.5
142-28-9	1,3-Dichloropropane	0.3	U	0.3	1
124-48-1	Dibromochloromethane	0.13	U	0.13	1
106-93-4	1,2-Dibromoethane	0.11	U	0.11	1
108-90-7	Chlorobenzene	0.16	U	0.16	0.5
630-20-6	1,1,1,2-Tetrachloroethane	0.14	U	0.14	1
100-41-4	Ethylbenzene	0.22	U	0.22	0.5
179601-23-1	m,p-Xylene	0.23	U	0.23	0.5
95-47-6	o-Xylene	0.5	U	0.5	1
100-42-5	Styrene	0.13	U	0.13	1
75-25-2	Bromoform	0.19	U	0.19	1
98-82-8	Isopropylbenzene	0.14	U	0.14	1
108-86-1	Bromobenzene	0.21	U	0.21	1
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.13	1
96-18-4	1,2,3-Trichloropropane	0.35	U	0.35	1
103-65-1	n-Propylbenzene	0.14	U	0.14	1
95-49-8	2-Chlorotoluene	0.25	U	0.25	1
106-43-4	4-Chlorotoluene	0.15	U	0.15	1
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW274-GW-Q22015

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559604 Lab File ID: 559604.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1357

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
98-06-6	tert-Butylbenzene	0.2	U	0.2	1
95-63-6	1,2,4-Trimethylbenzene	0.13	U	0.13	1
135-98-8	sec-Butylbenzene	0.1	U	0.1	1
541-73-1	1,3-Dichlorobenzene	0.15	U	0.15	1
106-46-7	1,4-Dichlorobenzene	0.16	U	0.16	0.5
99-87-6	4-Isopropyltoluene	0.14	U	0.14	1
104-51-8	n-Butylbenzene	0.16	U	0.16	1
95-50-1	1,2-Dichlorobenzene	0.25	U	0.25	0.5
96-12-8	1,2-Dibromo-3-chloropropane	1	U	1	2
120-82-1	1,2,4-Trichlorobenzene	0.4	U	0.4	1
87-68-3	Hexachlorobutadiene	0.36	U	0.36	1
91-20-3	Naphthalene	0.5	U	0.5	1
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.5	1
1634-04-4	Methyl tert-butyl ether	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW289-GW-Q22015

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559605 Lab File ID: 559605.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1418

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
75-71-8	Dichlorodifluoromethane	0.6	U	0.6	1
74-87-3	Chloromethane	0.32	U	0.32	1
75-01-4	Vinyl chloride	0.18	U	0.18	0.7
74-83-9	Bromomethane	0.43	U	0.43	1
75-00-3	Chloroethane	0.72	U	0.72	2
75-69-4	Trichlorofluoromethane	0.4	U	0.4	1
75-35-4	1,1-Dichloroethene	0.19	U	0.19	0.5
75-09-2	Methylene chloride	0.66	U	0.66	2
156-60-5	trans-1,2-Dichloroethene	0.33	U	0.33	1
75-34-3	1,1-Dichloroethane	0.5	U	0.5	1
594-20-7	2,2-Dichloropropane	0.6	U	0.6	1
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	0.5
74-97-5	Bromochloromethane	0.17	U	0.17	1
67-66-3	Chloroform	0.16	U	0.16	0.5
71-55-6	1,1,1-Trichloroethane	0.14	U	0.14	1
56-23-5	Carbon tetrachloride	0.14	U	0.14	0.5
563-58-6	1,1-Dichloropropene	0.3	U	0.3	1
71-43-2	Benzene	0.17	U	0.17	0.5
107-06-2	1,2-Dichloroethane	0.15	U	0.15	1
79-01-6	Trichloroethene	1.3		0.19	0.5
78-87-5	1,2-Dichloropropane	0.15	U	0.15	0.5
74-95-3	Dibromomethane	0.4	U	0.4	1
75-27-4	Bromodichloromethane	0.15	U	0.15	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING MW289-GW-Q22015

Lab Code: PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559605 Lab File ID: 559605.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1418

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene	0.4	U	0.4	1
108-88-3	Toluene	0.14	U	0.14	0.5
10061-02-6	trans-1,3-Dichloropropene	0.3	U	0.3	1
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	1
127-18-4	Tetrachloroethene	0.36	J	0.21	0.5
142-28-9	1,3-Dichloropropane	0.3	U	0.3	1
124-48-1	Dibromochloromethane	0.13	U	0.13	1
106-93-4	1,2-Dibromoethane	0.11	U	0.11	1
108-90-7	Chlorobenzene	0.16	U	0.16	0.5
630-20-6	1,1,1,2-Tetrachloroethane	0.14	U	0.14	1
100-41-4	Ethylbenzene	0.22	U	0.22	0.5
179601-23-1	m,p-Xylene	0.23	U	0.23	0.5
95-47-6	o-Xylene	0.5	U	0.5	1
100-42-5	Styrene	0.13	U	0.13	1
75-25-2	Bromoform	0.19	U	0.19	1
98-82-8	Isopropylbenzene	0.14	U	0.14	1
108-86-1	Bromobenzene	0.21	U	0.21	1
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.13	1
96-18-4	1,2,3-Trichloropropane	0.35	U	0.35	1
103-65-1	n-Propylbenzene	0.14	U	0.14	1
95-49-8	2-Chlorotoluene	0.25	U	0.25	1
106-43-4	4-Chlorotoluene	0.15	U	0.15	1
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING MW289-GW-Q22015

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559605 Lab File ID: 559605.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1418

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
98-06-6	tert-Butylbenzene	0.2	U	0.2	1
95-63-6	1,2,4-Trimethylbenzene	0.13	U	0.13	1
135-98-8	sec-Butylbenzene	0.1	U	0.1	1
541-73-1	1,3-Dichlorobenzene	0.15	U	0.15	1
106-46-7	1,4-Dichlorobenzene	0.16	U	0.16	0.5
99-87-6	4-Isopropyltoluene	0.14	U	0.14	1
104-51-8	n-Butylbenzene	0.16	U	0.16	1
95-50-1	1,2-Dichlorobenzene	0.25	U	0.25	0.5
96-12-8	1,2-Dibromo-3-chloropropane	1	U	1	2
120-82-1	1,2,4-Trichlorobenzene	0.4	U	0.4	1
87-68-3	Hexachlorobutadiene	0.36	U	0.36	1
91-20-3	Naphthalene	0.5	U	0.5	1
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.5	1
1634-04-4	Methyl tert-butyl ether	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING MW401-GW-Q22015

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559606 Lab File ID: 559606.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1440

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
75-71-8	Dichlorodifluoromethane	0.6	U	0.6	1
74-87-3	Chloromethane	0.32	U	0.32	1
75-01-4	Vinyl chloride	0.18	U	0.18	0.7
74-83-9	Bromomethane	0.43	U	0.43	1
75-00-3	Chloroethane	0.72	U	0.72	2
75-69-4	Trichlorofluoromethane	0.4	U	0.4	1
75-35-4	1,1-Dichloroethene	0.19	U	0.19	0.5
75-09-2	Methylene chloride	0.66	U	0.66	2
156-60-5	trans-1,2-Dichloroethene	0.33	U	0.33	1
75-34-3	1,1-Dichloroethane	0.5	U	0.5	1
594-20-7	2,2-Dichloropropane	0.6	U	0.6	1
156-59-2	cis-1,2-Dichloroethene	0.58		0.19	0.5
74-97-5	Bromochloromethane	0.17	U	0.17	1
67-66-3	Chloroform	0.16	U	0.16	0.5
71-55-6	1,1,1-Trichloroethane	0.14	U	0.14	1
56-23-5	Carbon tetrachloride	0.14	U	0.14	0.5
563-58-6	1,1-Dichloropropene	0.3	U	0.3	1
71-43-2	Benzene	0.17	U	0.17	0.5
107-06-2	1,2-Dichloroethane	0.15	U	0.15	1
79-01-6	Trichloroethene	8.3		0.19	0.5
78-87-5	1,2-Dichloropropane	0.15	U	0.15	0.5
74-95-3	Dibromomethane	0.4	U	0.4	1
75-27-4	Bromodichloromethane	0.15	U	0.15	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING MW401-GW-Q22015

Lab Code: PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559606 Lab File ID: 559606.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1440

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene	0.4	U	0.4	1
108-88-3	Toluene	0.14	U	0.14	0.5
10061-02-6	trans-1,3-Dichloropropene	0.3	U	0.3	1
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	1
127-18-4	Tetrachloroethene	0.4	J	0.21	0.5
142-28-9	1,3-Dichloropropane	0.3	U	0.3	1
124-48-1	Dibromochloromethane	0.13	U	0.13	1
106-93-4	1,2-Dibromoethane	0.11	U	0.11	1
108-90-7	Chlorobenzene	0.16	U	0.16	0.5
630-20-6	1,1,1,2-Tetrachloroethane	0.14	U	0.14	1
100-41-4	Ethylbenzene	0.22	U	0.22	0.5
179601-23-1	m,p-Xylene	0.23	U	0.23	0.5
95-47-6	o-Xylene	0.5	U	0.5	1
100-42-5	Styrene	0.13	U	0.13	1
75-25-2	Bromoform	0.19	U	0.19	1
98-82-8	Isopropylbenzene	0.14	U	0.14	1
108-86-1	Bromobenzene	0.21	U	0.21	1
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.13	1
96-18-4	1,2,3-Trichloropropane	0.35	U	0.35	1
103-65-1	n-Propylbenzene	0.14	U	0.14	1
95-49-8	2-Chlorotoluene	0.25	U	0.25	1
106-43-4	4-Chlorotoluene	0.15	U	0.15	1
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW401-GW-Q22015

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559606 Lab File ID: 559606.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1440

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
98-06-6	tert-Butylbenzene	0.2	U	0.2	1
95-63-6	1,2,4-Trimethylbenzene	0.13	U	0.13	1
135-98-8	sec-Butylbenzene	0.1	U	0.1	1
541-73-1	1,3-Dichlorobenzene	0.15	U	0.15	1
106-46-7	1,4-Dichlorobenzene	0.16	U	0.16	0.5
99-87-6	4-Isopropyltoluene	0.14	U	0.14	1
104-51-8	n-Butylbenzene	0.16	U	0.16	1
95-50-1	1,2-Dichlorobenzene	0.25	U	0.25	0.5
96-12-8	1,2-Dibromo-3-chloropropane	1	U	1	2
120-82-1	1,2,4-Trichlorobenzene	0.4	U	0.4	1
87-68-3	Hexachlorobutadiene	0.36	U	0.36	1
91-20-3	Naphthalene	0.5	U	0.5	1
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.5	1
1634-04-4	Methyl tert-butyl ether	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
TBNO-Q22015-01

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559607 Lab File ID: 559607.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1232

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
75-71-8	Dichlorodifluoromethane	0.6	U	0.6	1
74-87-3	Chloromethane	0.32	U	0.32	1
75-01-4	Vinyl chloride	0.18	U	0.18	0.7
74-83-9	Bromomethane	0.43	U	0.43	1
75-00-3	Chloroethane	0.72	U	0.72	2
75-69-4	Trichlorofluoromethane	0.4	U	0.4	1
75-35-4	1,1-Dichloroethene	0.19	U	0.19	0.5
75-09-2	Methylene chloride	0.66	U	0.66	2
156-60-5	trans-1,2-Dichloroethene	0.33	U	0.33	1
75-34-3	1,1-Dichloroethane	0.5	U	0.5	1
594-20-7	2,2-Dichloropropane	0.6	U	0.6	1
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	0.5
74-97-5	Bromochloromethane	0.17	U	0.17	1
67-66-3	Chloroform	0.16	U	0.16	0.5
71-55-6	1,1,1-Trichloroethane	0.14	U	0.14	1
56-23-5	Carbon tetrachloride	0.14	U	0.14	0.5
563-58-6	1,1-Dichloropropene	0.3	U	0.3	1
71-43-2	Benzene	0.17	U	0.17	0.5
107-06-2	1,2-Dichloroethane	0.15	U	0.15	1
79-01-6	Trichloroethene	0.19	U	0.19	0.5
78-87-5	1,2-Dichloropropane	0.15	U	0.15	0.5
74-95-3	Dibromomethane	0.4	U	0.4	1
75-27-4	Bromodichloromethane	0.15	U	0.15	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
TBNO-Q22015-01

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code: PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559607 Lab File ID: 559607.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1232

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene	0.4	U	0.4	1
108-88-3	Toluene	0.14	U	0.14	0.5
10061-02-6	trans-1,3-Dichloropropene	0.3	U	0.3	1
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	1
127-18-4	Tetrachloroethene	0.21	U	0.21	0.5
142-28-9	1,3-Dichloropropane	0.3	U	0.3	1
124-48-1	Dibromochloromethane	0.13	U	0.13	1
106-93-4	1,2-Dibromoethane	0.11	U	0.11	1
108-90-7	Chlorobenzene	0.16	U	0.16	0.5
630-20-6	1,1,1,2-Tetrachloroethane	0.14	U	0.14	1
100-41-4	Ethylbenzene	0.22	U	0.22	0.5
179601-23-1	m,p-Xylene	0.23	U	0.23	0.5
95-47-6	o-Xylene	0.5	U	0.5	1
100-42-5	Styrene	0.13	U	0.13	1
75-25-2	Bromoform	0.19	U	0.19	1
98-82-8	Isopropylbenzene	0.14	U	0.14	1
108-86-1	Bromobenzene	0.21	U	0.21	1
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.13	1
96-18-4	1,2,3-Trichloropropane	0.35	U	0.35	1
103-65-1	n-Propylbenzene	0.14	U	0.14	1
95-49-8	2-Chlorotoluene	0.25	U	0.25	1
106-43-4	4-Chlorotoluene	0.15	U	0.15	1
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
TBNO-Q22015-01

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. SAS No: SDG No.: 3515596

Matrix: WATER Lab Sample ID: 351559607 Lab File ID: 559607.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 1232

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
98-06-6	tert-Butylbenzene	0.2	U	0.2	1
95-63-6	1,2,4-Trimethylbenzene	0.13	U	0.13	1
135-98-8	sec-Butylbenzene	0.1	U	0.1	1
541-73-1	1,3-Dichlorobenzene	0.15	U	0.15	1
106-46-7	1,4-Dichlorobenzene	0.16	U	0.16	0.5
99-87-6	4-Isopropyltoluene	0.14	U	0.14	1
104-51-8	n-Butylbenzene	0.16	U	0.16	1
95-50-1	1,2-Dichlorobenzene	0.25	U	0.25	0.5
96-12-8	1,2-Dibromo-3-chloropropane	1	U	1	2
120-82-1	1,2,4-Trichlorobenzene	0.4	U	0.4	1
87-68-3	Hexachlorobutadiene	0.36	U	0.36	1
91-20-3	Naphthalene	0.5	U	0.5	1
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.5	1
1634-04-4	Methyl tert-butyl ether	0.5	U	0.5	1

SW8260C QC Summary

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q2 286134MB

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3515596

Matrix: WATER Lab Sample ID: 286134MB Lab File ID: BLK71.D

Sample wt/vol: 5 Units: ML Date Received: 06/15/15

Concentrated Extract Volume: 5 Date Extracted: _____

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 0838

PercentSolids: 0 decanted : (_____ Dilution Factor: 1

Extraction: PURGETRAP Station ID: _____

GPC Cleanup : (Y/N) _____ pH: _____

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
75-71-8	Dichlorodifluoromethane	0.6	U	0.6	1
74-87-3	Chloromethane	0.32	U	0.32	1
75-01-4	Vinyl chloride	0.18	U	0.18	0.7
74-83-9	Bromomethane	0.43	U	0.43	1
75-00-3	Chloroethane	0.72	U	0.72	2
75-69-4	Trichlorofluoromethane	0.4	U	0.4	1
75-35-4	1,1-Dichloroethene	0.19	U	0.19	0.5
75-09-2	Methylene chloride	0.66	U	0.66	2
156-60-5	trans-1,2-Dichloroethene	0.33	U	0.33	1
75-34-3	1,1-Dichloroethane	0.5	U	0.5	1
594-20-7	2,2-Dichloropropane	0.6	U	0.6	1
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	0.5
74-97-5	Bromochloromethane	0.17	U	0.17	1
67-66-3	Chloroform	0.16	U	0.16	0.5
71-55-6	1,1,1-Trichloroethane	0.14	U	0.14	1
56-23-5	Carbon tetrachloride	0.14	U	0.14	0.5
563-58-6	1,1-Dichloropropene	0.3	U	0.3	1
71-43-2	Benzene	0.17	U	0.17	0.5
107-06-2	1,2-Dichloroethane	0.15	U	0.15	1
79-01-6	Trichloroethene	0.19	U	0.19	0.5
78-87-5	1,2-Dichloropropane	0.15	U	0.15	0.5
74-95-3	Dibromomethane	0.4	U	0.4	1
75-27-4	Bromodichloromethane	0.15	U	0.15	1
10061-01-5	cis-1,3-Dichloropropene	0.4	U	0.4	1
108-88-3	Toluene	0.14	U	0.14	0.5
10061-02-6	trans-1,3-Dichloropropene	0.3	U	0.3	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q2 286134MB

Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3515596

Matrix: WATER Lab Sample ID: 286134MB Lab File ID: BLK71.D

Sample wt/vol: 5 Units: ML Date Received: 06/15/15

Concentrated Extract Volume: 5 Date Extracted: _____

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 0838

PercentSolids: 0 decanted : (_____) Dilution Factor: 1

Extraction: PURGETRAP Station ID: _____

GPC Cleanup : (Y/N) _____ pH: _____

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	1
127-18-4	Tetrachloroethene	0.21	U	0.21	0.5
142-28-9	1,3-Dichloropropane	0.3	U	0.3	1
124-48-1	Dibromochloromethane	0.13	U	0.13	1
106-93-4	1,2-Dibromoethane	0.11	U	0.11	1
108-90-7	Chlorobenzene	0.16	U	0.16	0.5
630-20-6	1,1,1,2-Tetrachloroethane	0.14	U	0.14	1
100-41-4	Ethylbenzene	0.22	U	0.22	0.5
179601-23-1	m,p-Xylene	0.23	U	0.23	0.5
95-47-6	o-Xylene	0.5	U	0.5	1
100-42-5	Styrene	0.13	U	0.13	1
75-25-2	Bromoform	0.19	U	0.19	1
98-82-8	Isopropylbenzene	0.14	U	0.14	1
108-86-1	Bromobenzene	0.21	U	0.21	1
79-34-5	1,1,1,2-Tetrachloroethane	0.13	U	0.13	1
96-18-4	1,2,3-Trichloropropane	0.35	U	0.35	1
103-65-1	n-Propylbenzene	0.14	U	0.14	1
95-49-8	2-Chlorotoluene	0.25	U	0.25	1
106-43-4	4-Chlorotoluene	0.15	U	0.15	1
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.5	1
98-06-6	tert-Butylbenzene	0.2	U	0.2	1
95-63-6	1,2,4-Trimethylbenzene	0.13	U	0.13	1
135-98-8	sec-Butylbenzene	0.1	U	0.1	1
541-73-1	1,3-Dichlorobenzene	0.15	U	0.15	1
106-46-7	1,4-Dichlorobenzene	0.16	U	0.16	0.5
99-87-6	4-Isopropyltoluene	0.14	U	0.14	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
286134MB

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q2

Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3515596

Matrix: WATER Lab Sample ID: 286134MB Lab File ID: BLK71.D

Sample wt/vol: 5 Units: ML Date Received: 06/15/15

Concentrated Extract Volume: 5 Date Extracted: _____

Level:(low/med) LOW Date Analyzed: 06/15/15 Time: 0838

PercentSolids: 0 decanted : (_____ Dilution Factor: 1

Extraction: PURGETRAP Station ID: _____

GPC Cleanup : (Y/N) _____ pH: _____

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
104-51-8	n-Butylbenzene	0.16	U	0.16	1
95-50-1	1,2-Dichlorobenzene	0.25	U	0.25	0.5
96-12-8	1,2-Dibromo-3-chloropropane	1	U	1	2
120-82-1	1,2,4-Trichlorobenzene	0.4	U	0.4	1
87-68-3	Hexachlorobutadiene	0.36	U	0.36	1
91-20-3	Naphthalene	0.5	U	0.5	1
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.5	1
1634-04-4	Methyl tert-butyl ether	0.5	U	0.5	1

VOLATILE ORGANIC METHOD BLANK SUMMARY

Lab Name: Spectrum Analytical, Inc Contract: NORTON GW MONITORING Q220 EPA Sample No. 286134MB

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3515596

Lab File ID: BLK71.D Lab Sample ID: 286134MB

Instrument ID: VMS07 Date Extracted: _____

Matrix: WATER Date Analyzed: 06/15/15

Level:(low/med) LOW Time Analyzed: 0838

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	286135LCS	286135LCS	LCS71.D	06/15/15	0734
2	286136LCSD	286136LCSD	LCS71D.D	06/15/15	0755
3	TBNO-Q22015-01	351559607	559607.D	06/15/15	1232
4	MW-261-GW-Q22015B	351559601	559601.D	06/15/15	1253
5	MW 184-GW-Q22015	351559602	559602.D	06/15/15	1315
6	MW261-GW-Q22015	351559603	559603.D	06/15/15	1336
7	MW274-GW-Q22015	351559604	559604.D	06/15/15	1357
8	MW289-GW-Q22015	351559605	559605.D	06/15/15	1418
9	MW401-GW-Q22015	351559606	559606.D	06/15/15	1440

COMMENTS:

2A

WATER VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code: PEL Case No. SAS No: SDG NO.: 3515596

Column(1): DB-624 ID: 0.18 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
286134MB	114.0	99.3	109.0	110.0			0
286135LCS	96.5	97.3	92.8	92.8			0
286136LCSD	103.0	102.0	101.0	98.3			0
MW184-GW-Q22015	120.0	92.3	108.0	114.0			0
MW261-GW-Q22015	113.0	97.8	110.0	109.0			0
MW-261-GW-Q22015B	122.0	94.0	105.0	114.0			0
MW274-GW-Q22015	120.0	94.3	102.0	113.0			0
MW289-GW-Q22015	113.0	96.3	108.0	110.0			0
MW401-GW-Q22015	112.0	101.0	112.0	112.0			0
TBNO-Q22015-01	110.0	97.5	108.0	108.0			0

Control Limits

S1 = Dibromofluoromethane 83 - 128
S2 = Toluene-d8 75 - 125
S3 = 4-Bromofluorobenzene 75 - 125
S4 = 1,2-Dichloroethane-d4 62 - 139

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out
Control limit source: (lab/method) AFCEE

Form II

**VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION -
BROMOFLUOROBENZENE (BFB)**

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q2201
 Lab Code : PEL Case No. SAS No: SDG No.: 3515596
 Lab File ID: BFB71.D BFB Injection Date: 05/21/15
 Instrument ID: VMS07 BFB Injection Time: 0603
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.1
75	30.0 - 60.0% of mass 95	46.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 100.0% of mass 95	85
175	5.0 - 9.0% of mass 174	6.5 (7.65)1
176	95.0 - 101% of mass 174	81.6 (96)1
177	5.0 - 9.0% of mass 176	6 (7.35)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	80PPB	80PPB	80PPB.D	05/21/15	0726
2	60PPB	60PPB	60PPB.D	05/21/15	0747
3	40PPB	40PPB	40PPB.D	05/21/15	0808
4	20PPB	20PPB	20PPB.D	05/21/15	0829
5	10PPB	10PPB	10PPB.D	05/21/15	0851
6	5PPB	5PPB	5PPB.D	05/21/15	0912
7	2PPB	2PPB	2PPB.D	05/21/15	0933
8	1PPB	1PPB	1PPB.D	05/21/15	0955
9	500PPT	500PPT	500PPT.D	05/21/15	1016
10	200PPT	200PPT	200PPT.D	05/21/15	1037
11	SEC71	SEC71	SEC71.D	05/21/15	1058

**VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION -
BROMOFLUOROBENZENE (BFB)**

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q2201
 Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 3515596
 Lab File ID: BFB71.D BFB Injection Date: 06/15/15
 Instrument ID: VMS07 BFB Injection Time: 0601
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.8
75	30.0 - 60.0% of mass 95	46.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	1.3 (1.64)1
174	50.0 - 100.0% of mass 95	79.1
175	5.0 - 9.0% of mass 174	6.2 (7.84)1
176	95.0 - 101% of mass 174	76.1 (96.21)1
177	5.0 - 9.0% of mass 176	5.5 (7.23)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	286137CCV	286137CCV	40CCV71.D	06/15/15	0657
2	286135LCS	286135LCS	LCS71.D	06/15/15	0734
3	286136LCSD	286136LCSD	LCS71D.D	06/15/15	0755
4	286134MB	286134MB	BLK71.D	06/15/15	0838
5	TBNO-Q22015-01	351559607	559607.D	06/15/15	1232
6	MW-261-GW-Q22015B	351559601	559601.D	06/15/15	1253
7	MW184-GW-Q22015	351559602	559602.D	06/15/15	1315
8	MW261-GW-Q22015	351559603	559603.D	06/15/15	1336
9	MW274-GW-Q22015	351559604	559604.D	06/15/15	1357
10	MW289-GW-Q22015	351559605	559605.D	06/15/15	1418
11	MW401-GW-Q22015	351559606	559606.D	06/15/15	1440
12	286138CCV	286138CCV	40CCV72.D	06/15/15	1647

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3515596
 Lab File ID (Standard): 40PPB.D Date Analyzed: 5/21/2015
 Instrument ID: VMS07 Time Analyzed: 8:08
 GC Column: DB-624 ID: 0.18 (mm)
 Matrix: (soil/water) W Heated Purge: (Y/N) No

	IS1 AREA #	RT	IS2 AREA #	RT	IS3 AREA #	RT
MID CAL STD	2017395	6.57	1553650	9.11	804428	10.51
UPPER LIMIT	4034790	7.07	3107300	9.61	1608856	11.01
LOWER LIMIT	1008697.5	6.07	776825	8.61	402214	10.01
EPA SAMPLE NO.						
1 286135LCS	2940868	6.56	2405900	9.11	1200562	10.52
2 286136LCSD	2963795	6.56	2281885	9.11	1181653	10.51
3 286134MB	2553003	6.57	1650255	9.11	746127	10.52
4 TBNO-Q22015-01	2329697	6.56	1509562	9.11	661582	10.52
5 MW-261-GW-Q22015B	2187000	6.56	1431742	9.11	627664	10.51
6 MW184-GW-Q22015	2174886	6.57	1379509	9.11	599396	10.52
7 MW261-GW-Q22015	2312475	6.56	1496383	9.11	652780	10.52
8 MW274-GW-Q22015	2146140	6.57	1400463	9.11	623110	10.52
9 MW289-GW-Q22015	2303026	6.56	1529776	9.11	652959	10.51
10 MW401-GW-Q22015	2368384	6.56	1576947	9.11	667827	10.52

IS1 = Fluorobenzene

IS2 = Chlorobenzene-d5

IS3 = 1,4-Dichlorobenzene-d4

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area

Column used to flag internal standard area values with an asterisk

VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No. SAS No: SDG No.: 3515596
 GC Column: DB-624 ID: 0.18 (mm) Init. Calib. Date: 05/21/15
 Instrument ID: VMS07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION									
S1 : 5.82 S2 : 8.08 S3 : 9.84 S4 : 6.19									
	CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #	S3 RT #	S4 RT #
1	052115BFB71	052115BFB71	BFB71.D	05/21/15	0603				
2	STD1379755	80PPB	80PPB.D	05/21/15	0726				
3	STD1379754	60PPB	60PPB.D	05/21/15	0747	5.82	8.08	9.84	6.19
4	STD1379751	40PPB	40PPB.D	05/21/15	0808	5.82	8.08	9.84	6.19
5	STD1379722	20PPB	20PPB.D	05/21/15	0829	5.82	8.08	9.85	6.19
6	STD1379719	10PPB	10PPB.D	05/21/15	0851	5.82	8.08	9.85	6.19
7	STD1379753	5PPB	5PPB.D	05/21/15	0912	5.82	8.08	9.85	6.19
8	STD1379729	2PPB	2PPB.D	05/21/15	0933				
9	STD1379720	1PPB	1PPB.D	05/21/15	0955				
10	STD1379752	500PPT	500PPT.D	05/21/15	1016				
11	STD1379721	200PPT	200PPT.D	05/21/15	1037				6.2
12	SSC1379756	SEC71	SEC71.D	05/21/15	1058	5.82	8.08	9.84	6.19
13	286133BFB	286133BFB	BFB71.D	06/15/15	0601				
14	CCV1388123	286137CCV	40CCV71.D	06/15/15	0657	5.82	8.08	9.84	6.19
15	286135LCS	286135LCS	LCS71.D	06/15/15	0734	5.82	8.08	9.84	6.19
16	286136LCSD	286136LCSD	LCS71D.D	06/15/15	0755	5.82	8.08	9.84	6.19
17	286134MB	286134MB	BLK71.D	06/15/15	0838	5.82	8.08	9.84	6.19
18	ZZZZZZ	ZZZZZZ	ZZZZZZ	06/15/15	0859				
19	ZZZZZZ	ZZZZZZ	ZZZZZZ	06/15/15	0921				
20	ZZZZZZ	ZZZZZZ	ZZZZZZ	06/15/15	0942				
21	ZZZZZZ	ZZZZZZ	ZZZZZZ	06/15/15	1003				
22	ZZZZZZ	ZZZZZZ	ZZZZZZ	06/15/15	1024				
23	ZZZZZZ	ZZZZZZ	ZZZZZZ	06/15/15	1046				
24	ZZZZZZ	ZZZZZZ	ZZZZZZ	06/15/15	1107				
25	ZZZZZZ	ZZZZZZ	ZZZZZZ	06/15/15	1128				
26	ZZZZZZ	ZZZZZZ	ZZZZZZ	06/15/15	1149				

QC LIMITS

S1 = Dibromofluoromethane (+/- 0.39 MINUTES)
 S2 = Toluene-d8 (+/- 0.39 MINUTES)
 S3 = 4-Bromofluorobenzene (+/- 0.63 MINUTES)
 S4 = 1,2-Dichloroethane-d4 (+/- 0.39 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No. SAS No: SDG No.: 3515596
 GC Column: DB-624 ID: 0.18 (mm) Init. Calib. Date: 05/21/15
 Instrument ID: VMS07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION									
S1 : 5.82 S2 : 8.08 S3 : 9.84 S4 : 6.19									
CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #	S3 RT #	S4 RT #	
27	ZZZZZZ	ZZZZZZ	06/15/15	1211					
28	TBNO-Q22015-01	351559607	559607.D	06/15/15	1232	5.82	8.08	9.84	6.19
29	MW-261-GW-Q22015B	351559601	559601.D	06/15/15	1253	5.82	8.08	9.84	6.19
30	MW184-GW-Q22015	351559602	559602.D	06/15/15	1315	5.82	8.08	9.84	6.19
31	MW261-GW-Q22015	351559603	559603.D	06/15/15	1336	5.82	8.08	9.84	6.19
32	MW274-GW-Q22015	351559604	559604.D	06/15/15	1357	5.82	8.08	9.84	6.19
33	MW289-GW-Q22015	351559605	559605.D	06/15/15	1418	5.82	8.08	9.84	6.19
34	MW401-GW-Q22015	351559606	559606.D	06/15/15	1440	5.82	8.08	9.84	6.19
35	ZZZZZZ	ZZZZZZ	06/15/15	1501					
36	ZZZZZZ	ZZZZZZ	06/15/15	1522					
37	ZZZZZZ	ZZZZZZ	06/15/15	1544					
38	ZZZZZZ	ZZZZZZ	06/15/15	1605					
39	ZZZZZZ	ZZZZZZ	06/15/15	1626					
40	CCV1388124	286138CCV	40CCV72.D	06/15/15	1647	5.82	8.08	9.84	6.19

QC LIMITS

S1 = Dibromofluoromethane (+/- 0.39 MINUTES)
 S2 = Toluene-d8 (+/- 0.39 MINUTES)
 S3 = 4-Bromofluorobenzene (+/- 0.63 MINUTES)
 S4 = 1,2-Dichloroethane-d4 (+/- 0.39 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

286135LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3515596

COMPOUND	SPIKE ADDED ug/L	LCS CONCENTRATION ug/L	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
Dichlorodifluoromethane	20	20	99.0			56 - 126
Chloromethane	20	20	102.0			78 - 120
Vinyl chloride	20	21	107.0			46 - 134
Bromomethane	20	16	82.0			30 - 136
Chloroethane	20	21	104.0			73 - 127
Trichlorofluoromethane	20	23	114.0			72 - 122
1,1-Dichloroethene	20	19	96.0			75 - 125
Methylene chloride	20	18	88.5			80 - 122
trans-1,2-Dichloroethene	20	19	96.5			75 - 125
1,1-Dichloroethane	20	20	100.0			72 - 125
2,2-Dichloropropane	20	21	106.0			71 - 116
cis-1,2-Dichloroethene	20	20	101.0			75 - 125
Bromochloromethane	20	18	89.0			78 - 118
Chloroform	20	20	98.5			74 - 125
1,1,1-Trichloroethane	20	21	107.0			75 - 125
Carbon tetrachloride	20	22	110.0			62 - 125
1,1-Dichloropropene	20	19	94.5			75 - 116
Benzene	20	19	97.0			75 - 125
1,2-Dichloroethane	20	19	94.0			68 - 127
Trichloroethene	20	20	98.0			71 - 125
1,2-Dichloropropane	20	19	97.0			75 - 117
Dibromomethane	20	20	100.0			75 - 130
Bromodichloromethane	20	21	103.0			75 - 125
cis-1,3-Dichloropropene	20	18	89.0			80 - 130
Toluene	20	21	106.0			74 - 125
trans-1,3-Dichloropropene	20	18	92.0			81 - 130
1,1,2-Trichloroethane	20	20	101.0			75 - 130
Tetrachloroethene	20	20	102.0			71 - 125
1,3-Dichloropropane	20	17	87.0			80 - 117
Dibromochloromethane	20	20	102.0			80 - 130
1,2-Dibromoethane	20	19	93.0			75 - 130
Chlorobenzene	20	20	97.5			75 - 120

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) AFCEE

COMMENTS: _____

Form III

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

286135LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3515596

COMPOUND	SPIKE ADDED ug/L	LCS CONCENTRATION ug/L	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	20	21	104.0			75 - 130
Ethylbenzene	20	19	93.5			75 - 125
m,p-Xylene	40	40	99.8			75 - 125
o-Xylene	20	17	86.5			75 - 125
Styrene	20	18	90.0			75 - 120
Bromoform	20	21	104.0			62 - 130
Isopropylbenzene	20	17	83.5			75 - 120
Bromobenzene	20	17	87.0			81 - 119
1,1,2,2-Tetrachloroethane	20	17	87.0			82 - 120
1,2,3-Trichloropropane	20	18	88.5			80 - 120
n-Propylbenzene	20	18	92.0			80 - 126
2-Chlorotoluene	20	18	91.0			75 - 122
4-Chlorotoluene	20	19	96.0			80 - 120
1,3,5-Trimethylbenzene	20	19	95.0			75 - 116
tert-Butylbenzene	20	17	83.0			80 - 120
1,2,4-Trimethylbenzene	20	19	96.0			75 - 120
sec-Butylbenzene	20	18	91.5			75 - 123
1,3-Dichlorobenzene	20	20	98.0			75 - 120
1,4-Dichlorobenzene	20	18	92.5			75 - 120
4-Isopropyltoluene	20	18	88.5			75 - 119
n-Butylbenzene	20	17	85.5			75 - 130
1,2-Dichlorobenzene	20	19	96.5			75 - 120
1,2-Dibromo-3-chloropropane	20	16	80.5			74 - 130
1,2,4-Trichlorobenzene	20	18	90.0			75 - 120
Hexachlorobutadiene	20	21	104.0			75 - 115
Naphthalene	20	18	87.5			75 - 125
1,2,3-Trichlorobenzene	20	19	96.0			75 - 130
Methyl tert-butyl ether	20	21	105.0			76 - 130

Spike Recovery: 0 out of 60 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) AFCEE

COMMENTS: _____

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

286136LCSD

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3515596

COMPOUND	SPIKE ADDED ug/L	LCS CONCENTRATION ug/L	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
Dichlorodifluoromethane	20	18	92.0	7.3	17	56 - 126
Chloromethane	20	20	98.0	4.0	15	78 - 120
Vinyl chloride	20	20	102.0	4.8	20	46 - 134
Bromomethane	20	16	82.0	0.0	15	30 - 136
Chloroethane	20	18	91.0	13.8	15	73 - 127
Trichlorofluoromethane	20	21	106.0	6.8	15	72 - 122
1,1-Dichloroethene	20	18	90.5	5.9	20	75 - 125
Methylene chloride	20	17	84.5	4.6	15	80 - 122
trans-1,2-Dichloroethene	20	19	94.5	2.1	20	75 - 125
1,1-Dichloroethane	20	19	96.0	4.6	20	72 - 125
2,2-Dichloropropane	20	20	99.5	5.9	13	71 - 116
cis-1,2-Dichloroethene	20	19	95.5	5.6	20	75 - 125
Bromochloromethane	20	17	87.0	2.3	20	78 - 118
Chloroform	20	19	96.5	2.1	20	74 - 125
1,1,1-Trichloroethane	20	20	100.0	6.3	20	75 - 125
Carbon tetrachloride	20	21	104.0	5.6	20	62 - 125
1,1-Dichloropropene	20	17	85.0	10.6	15	75 - 116
Benzene	20	18	92.0	5.3	20	75 - 125
1,2-Dichloroethane	20	18	89.5	4.9	20	68 - 127
Trichloroethene	20	18	90.0	8.5	20	71 - 125
1,2-Dichloropropane	20	18	91.0	6.4	15	75 - 117
Dibromomethane	20	19	96.0	4.1	15	75 - 130
Bromodichloromethane	20	19	97.0	6.0	20	75 - 125
cis-1,3-Dichloropropene	20	17	84.5	5.2	15	80 - 130
Toluene	20	20	101.0	4.4	20	74 - 125
trans-1,3-Dichloropropene	20	18	87.5	5.0	15	81 - 130
1,1,2-Trichloroethane	20	20	99.5	1.5	15	75 - 130
Tetrachloroethene	20	20	99.5	2.0	20	71 - 125
1,3-Dichloropropane	20	18	89.0	2.3	15	80 - 117
Dibromochloromethane	20	21	104.0	1.9	15	80 - 130
1,2-Dibromoethane	20	19	97.0	4.2	15	75 - 130
Chlorobenzene	20	20	100.0	2.5	15	75 - 120

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) AFCEE

COMMENTS: _____

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

286136LCSD

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3515596

COMPOUND	SPIKE ADDED ug/L	LCS CONCENTRATION ug/L	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	20	21	106.0	1.0	15	75 - 130
Ethylbenzene	20	19	96.0	2.6	20	75 - 125
m,p-Xylene	40	40	100.0	0.3	20	75 - 125
o-Xylene	20	17	86.0	0.6	20	75 - 125
Styrene	20	18	88.0	2.2	15	75 - 120
Bromoform	20	22	112.0	7.4	15	62 - 130
Isopropylbenzene	20	16	79.5	4.9	15	75 - 120
Bromobenzene	20	17	86.0	1.2	15	81 - 119
1,1,2,2-Tetrachloroethane	20	18	88.5	1.7	15	82 - 120
1,2,3-Trichloropropane	20	18	90.5	2.2	15	80 - 120
n-Propylbenzene	20	18	88.5	3.9	15	80 - 126
2-Chlorotoluene	20	17	86.5	5.1	15	75 - 122
4-Chlorotoluene	20	18	92.0	4.3	15	80 - 120
1,3,5-Trimethylbenzene	20	18	91.0	4.3	15	75 - 116
tert-Butylbenzene	20	18	90.5	8.6	19	80 - 120
1,2,4-Trimethylbenzene	20	18	92.5	3.7	14	75 - 120
sec-Butylbenzene	20	17	85.5	6.8	15	75 - 123
1,3-Dichlorobenzene	20	19	94.5	3.6	15	75 - 120
1,4-Dichlorobenzene	20	18	90.5	2.2	15	75 - 120
4-Isopropyltoluene	20	17	83.0	6.4	15	75 - 119
n-Butylbenzene	20	16	78.5	8.5	16	75 - 130
1,2-Dichlorobenzene	20	19	94.0	2.6	15	75 - 120
1,2-Dibromo-3-chloropropane	20	17	84.5	4.8	15	74 - 130
1,2,4-Trichlorobenzene	20	18	88.0	2.2	15	75 - 120
Hexachlorobutadiene	20	19	97.0	6.5	15	75 - 115
Naphthalene	20	17	84.0	4.1	20	75 - 125
1,2,3-Trichlorobenzene	20	18	92.5	3.7	15	75 - 130
Methyl tert-butyl ether	20	21	104.0	1.4	17	76 - 130

Spike Recovery: 0 out of 60 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) AFCEE

COMMENTS: _____

Form III

SW8260C Standards Data

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No. SAS No: SDG No.: 3515596
 Instrument ID: VMS07 Calibration Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 726 End: 1037
 Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID:		RRF0.2 =200PPT.D	RRF0.5 =500PPT.D			
RRF1 =1PPB.D		RRF2 =2PPB.D	RRF5 =5PPB.D			
COMPOUND		RRF0.2	RRF0.5	RRF1	RRF2	RRF5
Dichlorodifluoromethane				0.16139	0.17377	0.15689
Chloromethane	#			0.27389	0.27805	0.23942 #
Vinyl chloride	*		0.27682	0.20342	0.25793	0.23643 *
Bromomethane				0.1828	0.18158	0.16352
Chloroethane				0.23926	0.22466	0.19836
Trichlorofluoromethane				0.3215	0.391	0.35782
1,1-Dichloroethene	*		0.51165	0.41869	0.42894	0.4188 *
Methylene chloride				0.49642	0.47678	0.4735
trans-1,2-Dichloroethene			0.47978	0.3777	0.38461	0.40919
1,1-Dichloroethane	#			0.49293	0.54062	0.53913 #
2,2-Dichloropropane				0.28727	0.36452	0.38236
cis-1,2-Dichloroethene			0.32518	0.28772	0.30565	0.33356
Bromochloromethane				0.28193	0.308	0.32554
Chloroform	*	0.56346	0.64326	0.53014	0.55743	0.58455 *
1,1,1-Trichloroethane				0.36387	0.413	0.44034
Carbon tetrachloride			0.38955	0.2963	0.32145	0.34728
1,1-Dichloropropene				0.29482	0.35127	0.34594
Benzene		1.216	1.098	1.041	1.115	1.188
1,2-Dichloroethane			0.42823	0.43783	0.44931	0.45935
Trichloroethene			0.39145	0.29794	0.30414	0.297
1,2-Dichloropropane	*		0.29539	0.32302	0.30409	0.34428 *
Dibromomethane				0.20557	0.22011	0.23986
Bromodichloromethane		0.4451	0.44447	0.32751	0.39136	0.41383
cis-1,3-Dichloropropene			0.43123	0.31884	0.39473	0.44515
Toluene	*		0.56541	0.49135	0.584	0.6458 *
trans-1,3-Dichloropropene			0.31556	0.24957	0.33132	0.39557
1,1,2-Trichloroethane			0.31145	0.32223	0.29775	0.3359
Tetrachloroethene			0.31372	0.25657	0.31238	0.28097
1,3-Dichloropropane		0.6875	0.62213	0.59544	0.68153	0.74386
Dibromochloromethane		0.35399	0.39063	0.38082	0.39918	0.45373
1,2-Dibromoethane				0.41492	0.42783	0.47051
Chlorobenzene	#		1.147	1.062	1.097	1.122 #
1,1,1,2-Tetrachloroethane			0.3451	0.32201	0.37739	0.40723

VOLATILE ORGANIC INITIAL CALIBRATION DATA

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COMPOUND	RRF0.2	RRF0.5	RRF1	RRF2	RRF5
Ethylbenzene	*	0.43851	0.40044	0.41968	0.45867 *
m,p-Xylene	0.56054	0.52182	0.44385	0.50961	0.58712
o-Xylene		1.104	1.004	1.126	1.228
Styrene			0.70471	0.82259	0.90064
Bromoform	#		0.25139	0.2678	0.28953 #
Isopropylbenzene	3.193	3.026	2.703	2.763	2.858
Bromobenzene			1.89	1.772	1.897
1,1,2,2-Tetrachloroethane	# 1.102	1.552	1.408	1.528	1.572 #
1,2,3-Trichloropropane			0.34115	0.35574	0.43121
n-Propylbenzene			3.069	3.473	3.721
2-Chlorotoluene			2.029	2.222	2.246
4-Chlorotoluene			2.419	2.71	2.771
1,3,5-Trimethylbenzene			1.975	2.004	2.376
tert-Butylbenzene			1.981	2.212	1.838
1,2,4-Trimethylbenzene			2.123	2.213	2.538
sec-Butylbenzene			2.315	2.815	2.789
1,3-Dichlorobenzene		1.846	1.601	1.577	1.676
1,4-Dichlorobenzene		2.224	1.929	2.063	1.869
4-Isopropyltoluene			1.854	2.195	2.35
n-Butylbenzene			2.094	2.256	2.319
1,2-Dichlorobenzene		1.867	1.582	1.83	1.795
1,2-Dibromo-3-chloropropane				0.19816	0.23872
1,2,4-Trichlorobenzene			0.65797	0.72406	0.79279
Hexachlorobutadiene		0.34583	0.35484	0.26106	0.27015
Naphthalene			1.155	1.571	1.686
1,2,3-Trichlorobenzene			0.66742	0.79755	0.79737
Methyl tert-butyl ether			0.76406	0.81027	0.87322
=====					
Dibromofluoromethane(SURR)					0.27599
Toluene-d8(SURR)					0.82535
4-Bromofluorobenzene(SURR)					0.89886
1,2-Dichloroethane-d4(SURR)					0.07106

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No. SAS No: SDG No.: 3515596
 Instrument ID: VMS07 Calibration Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 726 End: 1037
 Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID:	RRF10 =10PPB.D	RRF20 =20PPB.D	RRF40 =40PPB.D	RRF60 =60PPB.D	RRF80 =80PPB.D
COMPOUND	RRF10	RRF20	RRF40	RRF60	RRF80
Dichlorodifluoromethane	0.16499	0.18673	0.18502	0.18827	0.19704
Chloromethane	# 0.22105	0.22913	0.22956	0.23132	0.22889 #
Vinyl chloride	* 0.23071	0.26356	0.27237	0.27688	0.2719 *
Bromomethane	0.14156	0.19825	0.22712	0.20729	0.19269
Chloroethane	0.20047	0.20408	0.19396	0.19883	0.19306
Trichlorofluoromethane	0.34126	0.40554	0.40489	0.41176	0.41395
1,1-Dichloroethene	* 0.42314	0.45182	0.44643	0.42746	0.43919 *
Methylene chloride	0.4246	0.42793	0.42838	0.39854	0.41127
trans-1,2-Dichloroethene	0.38976	0.41498	0.41158	0.3988	0.40463
1,1-Dichloroethane	# 0.50998	0.53292	0.52992	0.50999	0.52479 #
2,2-Dichloropropane	0.34937	0.39318	0.3934	0.37661	0.39666
cis-1,2-Dichloroethene	0.30418	0.32316	0.32891	0.32065	0.33033
Bromochloromethane	0.29494	0.30529	0.30551	0.29426	0.30131
Chloroform	* 0.52267	0.57622	0.56632	0.54815	0.56796 *
1,1,1-Trichloroethane	0.41584	0.46752	0.45844	0.44493	0.47227
Carbon tetrachloride	0.34825	0.38457	0.38161	0.36661	0.38792
1,1-Dichloropropene	0.34451	0.39448	0.39009	0.38019	0.4002
Benzene	1.099	1.203	1.205	1.143	1.208
1,2-Dichloroethane	0.40473	0.42676	0.43121	0.41402	0.42958
Trichloroethene	0.27448	0.29047	0.29652	0.27924	0.29383
1,2-Dichloropropane	* 0.31298	0.32976	0.33019	0.31434	0.32862 *
Dibromomethane	0.21641	0.22627	0.22645	0.21218	0.22472
Bromodichloromethane	0.37974	0.42082	0.4219	0.41087	0.43531
cis-1,3-Dichloropropene	0.40105	0.44719	0.46728	0.45739	0.48632
Toluene	* 0.62317	0.69339	0.7094	0.68989	0.71814 *
trans-1,3-Dichloropropene	0.35147	0.40281	0.42457	0.42071	0.44958
1,1,2-Trichloroethane	0.28798	0.31573	0.30963	0.2959	0.31252
Tetrachloroethene	0.28885	0.3039	0.29236	0.27906	0.29711
1,3-Dichloropropane	0.64943	0.68455	0.67137	0.64228	0.66512
Dibromochloromethane	0.39949	0.41464	0.419	0.40198	0.43101
1,2-Dibromoethane	0.41913	0.44001	0.43242	0.41878	0.43199
Chlorobenzene	# 1.061	1.073	1.09	1.047	1.077 #
1,1,1,2-Tetrachloroethane	0.37604	0.37827	0.38376	0.37624	0.39043

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
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 Instrument ID: VMS07 Calibration Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 726 End: 1037
 Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID:	RRF10 =10PPB.D	RRF20 =20PPB.D			
RRF40 =40PPB.D	RRF60 =60PPB.D	RRF80 =80PPB.D			
COMPOUND	RRF10	RRF20	RRF40	RRF60	RRF80
Ethylbenzene	* 0.46285	0.52048	0.52856	0.51924	0.53476 *
m,p-Xylene	0.5767	0.65288	0.6663	0.65161	0.68527
o-Xylene	1.228	1.329	1.386	1.378	1.438
Styrene	0.92628	1.101	1.148	1.137	1.191
Bromoform	# 0.25979	0.28447	0.30013	0.28721	0.30734 #
Isopropylbenzene	2.777	3.135	3.146	3.17	3.204
Bromobenzene	1.73	1.784	1.773	1.72	1.783
1,1,2,2-Tetrachloroethane	# 1.368	1.361	1.277	1.217	1.269 #
1,2,3-Trichloropropane	0.35197	0.36905	0.33856	0.33198	0.33846
n-Propylbenzene	3.678	4.265	4.268	4.19	4.364
2-Chlorotoluene	2.165	2.36	2.331	2.305	2.36
4-Chlorotoluene	2.682	2.881	2.85	2.81	2.906
1,3,5-Trimethylbenzene	2.336	2.665	2.692	2.66	2.789
tert-Butylbenzene	2.186	2.182	2.217	2.241	2.338
1,2,4-Trimethylbenzene	2.573	2.896	2.98	2.898	3.023
sec-Butylbenzene	2.883	3.267	3.311	3.262	3.437
1,3-Dichlorobenzene	1.527	1.633	1.634	1.577	1.662
1,4-Dichlorobenzene	1.724	1.767	1.711	1.666	1.724
4-Isopropyltoluene	2.406	2.797	2.846	2.818	2.988
n-Butylbenzene	2.327	2.812	2.908	2.826	3.015
1,2-Dichlorobenzene	1.571	1.685	1.652	1.55	1.582
1,2-Dibromo-3-chloropropane	0.1874	0.21639	0.20787	0.20456	0.21309
1,2,4-Trichlorobenzene	0.77808	0.89631	0.89905	0.90482	0.96757
Hexachlorobutadiene	0.25594	0.26706	0.24505	0.2419	0.24965
Naphthalene	1.701	2.149	2.377	2.563	2.761
1,2,3-Trichlorobenzene	0.79041	0.91332	0.89367	0.89968	0.96711
Methyl tert-butyl ether	0.75632	0.79255	0.78583	0.75471	0.77028
=====					
Dibromofluoromethane(SURR)	0.28722	0.28904	0.28788	0.27898	
Toluene-d8(SURR)	0.9042	0.90935	0.93428	0.91002	
4-Bromofluorobenzene(SURR)	0.90989	0.9319	0.89815	0.86158	
1,2-Dichloroethane-d4(SURR)	0.06519	0.06514	0.06728	0.06429	

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
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 Instrument ID: VMS07 Calibration Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 726 End: 1037
 Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

COMPOUND	CURVE	COEFFICIENTS		%RSD OR R^2
		AO	A1	
Dichlorodifluoromethane	AVRG		0.176763032	8.3
Chloromethane	# AVRG		0.241414172	9.1 #
Vinyl chloride	* AVRG		0.254446879	10 *
Bromomethane	2ORDR	0.0420379	3.55698396	0.9962
Chloroethane	AVRG		0.20658613	8
Trichlorofluoromethane	AVRG		0.380964773	9.4
1,1-Dichloroethene	* AVRG		0.44067913	6.6 *
Methylene chloride	AVRG		0.442175419	8
trans-1,2-Dichloroethene	AVRG		0.407892014	7.3
1,1-Dichloroethane	# AVRG		0.522534347	3.2 #
2,2-Dichloropropane	AVRG		0.367922341	9.9
cis-1,2-Dichloroethene	AVRG		0.317706096	4.8
Bromochloromethane	AVRG		0.302099162	4.2
Chloroform	* AVRG		0.566014132	5.9 *
1,1,1-Trichloroethane	AVRG		0.43452595	8.3
Carbon tetrachloride	AVRG		0.358170563	9.1
1,1-Dichloropropene	AVRG		0.362685352	9.8
Benzene	AVRG		1.15158353	5.3
1,2-Dichloroethane	AVRG		0.431223065	3.8
Trichloroethene	AVRG		0.302784224	11.4
1,2-Dichloropropane	* AVRG		0.320297142	4.7 *
Dibromomethane	AVRG		0.2214451	4.7
Bromodichloromethane	AVRG		0.409091705	8.7
cis-1,3-Dichloropropene	AVRG		0.427686219	11.8
Toluene	* AVRG		0.635616064	12.1 *
trans-1,3-Dichloropropene	2ORDR	0.0058561	2.54975019	0.99953
1,1,2-Trichloroethane	AVRG		0.30989767	4.7
Tetrachloroethene	AVRG		0.291657248	6.2
1,3-Dichloropropane	AVRG		0.664321582	6.1
Dibromochloromethane	AVRG		0.404447294	6.8
1,2-Dibromoethane	AVRG		0.431949642	4.1
Chlorobenzene	# AVRG		1.08646533	2.9 #

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
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 Instrument ID: VMS07 Calibration Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 726 End: 1037
 Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

COMPOUND	CURVE	COEFFICIENTS		%RSD OR R^2
		AO	A1	
1,1,1,2-Tetrachloroethane	AVRG		0.37294258	6.7
Ethylbenzene	* AVRG		0.475909334	10.7 *
m,p-Xylene	AVRG		0.585570504	13.5
o-Xylene	AVRG		1.24687242	11.9
Styrene	2ORDR	0.0146648	0.90738726	0.99956
Bromoform	# AVRG		0.28095818	7 #
Isopropylbenzene	AVRG		2.99737001	6.7
Bromobenzene	AVRG		1.7934128	3.7
1,1,2,2-Tetrachloroethane	# AVRG		1.36536815	11.3 #
1,2,3-Trichloropropane	AVRG		0.357265423	9
n-Propylbenzene	AVRG		3.87842942	12
2-Chlorotoluene	AVRG		2.25230186	5.1
4-Chlorotoluene	AVRG		2.75354396	5.7
1,3,5-Trimethylbenzene	AVRG		2.43713873	13
tert-Butylbenzene	AVRG		2.14929222	7.5
1,2,4-Trimethylbenzene	AVRG		2.6554058	13.2
sec-Butylbenzene	AVRG		3.00999353	12.5
1,3-Dichlorobenzene	AVRG		1.63691859	5.6
1,4-Dichlorobenzene	AVRG		1.85281356	10.2
4-Isopropyltoluene	2ORDR	0.00907	0.371306616	0.99949
n-Butylbenzene	AVRG		2.56966936	13.8
1,2-Dichlorobenzene	AVRG		1.6793197	7.3
1,2-Dibromo-3-chloropropane	AVRG		0.209453906	7.7
1,2,4-Trichlorobenzene	AVRG		0.827581466	12.8
Hexachlorobutadiene	2ORDR	-0.0111136	4.16228171	0.99935
Naphthalene	2ORDR	0.0231442	0.451384386	0.99956
1,2,3-Trichlorobenzene	AVRG		0.840815043	11.4
Methyl tert-butyl ether	AVRG		0.788405093	5
=====				
Dibromofluoromethane(SURR)	AVRG		0.283822681	2.1
Toluene-d8(SURR)	AVRG		0.896639591	4.6
4-Bromofluorobenzene(SURR)	AVRG		0.90007435	2.8
1,2-Dichloroethane-d4(SURR)	AVRG		0.06659035	4.1

7SSC
VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3515596
 Instrument ID: VMS07 Calibration Date: 05/21/15 Time: 1058
 CCV ID: SSC1379756 Lab File ID: SEC71.D Init. Calib. Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO
 Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Dichlorodifluoromethane	0.17676	0.17104	3.2	AVRG	
Chloromethane	# 0.24141	0.22177	8.1	AVRG#	
Vinyl chloride	* 0.25445	0.25539	0.4	AVRG*	
Bromomethane	40	47.4	18.5	2ORD	
Chloroethane	0.20658	0.20517	0.7	AVRG	
Trichlorofluoromethane	0.38096	0.40897	7.4	AVRG	
1,1-Dichloroethene	* 0.44068	0.43028	2.4	AVRG*	
Methylene chloride	0.44218	0.40517	8.4	AVRG	
trans-1,2-Dichloroethene	0.40789	0.38811	4.8	AVRG	
1,1-Dichloroethane	# 0.52254	0.50955	2.5	AVRG#	
2,2-Dichloropropane	0.36792	0.37401	1.7	AVRG	
cis-1,2-Dichloroethene	0.3177	0.31208	1.8	AVRG	
Bromochloromethane	0.3021	0.29364	2.8	AVRG	
Chloroform	* 0.56602	0.56279	0.6	AVRG*	
1,1,1-Trichloroethane	0.43453	0.45508	4.7	AVRG	
Carbon tetrachloride	0.35817	0.38091	6.3	AVRG	
1,1-Dichloropropene	0.36268	0.3791	4.5	AVRG	
Benzene	1.15158	1.179	2.4	AVRG	
1,2-Dichloroethane	0.43122	0.4237	1.7	AVRG	
Trichloroethene	0.30278	0.28377	6.3	AVRG	
1,2-Dichloropropane	* 0.3203	0.32433	1.3	AVRG*	
Dibromomethane	0.22144	0.21896	1.1	AVRG	
Bromodichloromethane	0.40909	0.4199	2.6	AVRG	
cis-1,3-Dichloropropene	0.42768	0.44623	4.3	AVRG	
Toluene	* 0.63562	0.69133	8.8	AVRG*	
trans-1,3-Dichloropropene	40	39.9	0.3	2ORD	
1,1,2-Trichloroethane	0.3099	0.31294	1.0	AVRG	
Tetrachloroethene	0.29166	0.29126	0.1	AVRG	
1,3-Dichloropropane	0.66432	0.63901	3.8	AVRG	
Dibromochloromethane	0.40445	0.39881	1.4	AVRG	
1,2-Dibromoethane	0.43195	0.42537	1.5	AVRG	
Chlorobenzene	# 1.08646	1.043	4.0	AVRG#	
1,1,1,2-Tetrachloroethane	0.37294	0.37432	0.4	AVRG	
Ethylbenzene	* 0.47591	0.51118	7.4	AVRG*	
m,p-Xylene	0.58557	0.64692	10.5	AVRG	
o-Xylene	1.24687	1.317	5.6	AVRG	

7SSC
VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3515596
 Instrument ID: VMS07 CalibrationDate: 05/21/15 Time: 1058
 CCV ID: SSC1379756 Lab File ID: SEC71.D Init. Calib. Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO
 Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Styrene	40	39.5	1.2	2ORD	
Bromoform	# 0.28096	0.2814	0.2	AVRG	#
Isopropylbenzene	2.99737	2.913	2.8	AVRG	
Bromobenzene	1.79341	1.602	10.7	AVRG	
1,1,2,2-Tetrachloroethane	# 1.36537	1.186	13.1	AVRG	#
1,2,3-Trichloropropane	0.35726	0.32435	9.2	AVRG	
n-Propylbenzene	3.87843	3.963	2.2	AVRG	
2-Chlorotoluene	2.2523	2.156	4.3	AVRG	
4-Chlorotoluene	2.75354	2.676	2.8	AVRG	
1,3,5-Trimethylbenzene	2.43714	2.515	3.2	AVRG	
tert-Butylbenzene	2.14929	2.102	2.2	AVRG	
1,2,4-Trimethylbenzene	2.6554	2.766	4.2	AVRG	
sec-Butylbenzene	3.00999	3.056	1.5	AVRG	
1,3-Dichlorobenzene	1.63692	1.539	6.0	AVRG	
1,4-Dichlorobenzene	1.85281	1.611	13.1	AVRG	
4-Isopropyltoluene	40	38.4	4.0	2ORD	
n-Butylbenzene	2.56967	2.702	5.1	AVRG	
1,2-Dichlorobenzene	1.67932	1.576	6.2	AVRG	
1,2-Dibromo-3-chloropropane	0.20945	0.20254	3.3	AVRG	
1,2,4-Trichlorobenzene	0.82758	0.80514	2.7	AVRG	
Hexachlorobutadiene	40	38.2	4.5	2ORD	
Naphthalene	40	34.1	14.7	2ORD	
1,2,3-Trichlorobenzene	0.84082	0.80914	3.8	AVRG	
Methyl tert-butyl ether	0.7884	0.73195	7.2	AVRG	
=====					
Dibromofluoromethane(SURR)	0.28382	0.28847	1.6	AVRG	
Toluene-d8(SURR)	0.89664	0.92942	3.7	AVRG	
4-Bromofluorobenzene(SURR)	0.90007	0.85304	5.2	AVRG	
1,2-Dichloroethane-d4(SURR)	0.06659	0.06523	2.0	AVRG	

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3515596
 Instrument ID: VMS07 Calibration Date: 06/15/15 Time: 0657
 CCV ID: CCV1388123 Lab File ID: 40CCV71.D Init. Calib. Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO
 Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Dichlorodifluoromethane	0.17676	0.16361	7.4	AVRG	
Chloromethane	# 0.24141	0.22675	6.1	AVRG#	
Vinyl chloride	* 0.25445	0.25622	0.7	AVRG*	
Bromomethane	40	36.5	8.8	2ORD	
Chloroethane	0.20658	0.17772	14.0	AVRG	
Trichlorofluoromethane	0.38096	0.40527	6.4	AVRG	
1,1-Dichloroethene	* 0.44068	0.42504	3.5	AVRG*	
Methylene chloride	0.44218	0.41364	6.5	AVRG	
trans-1,2-Dichloroethene	0.40789	0.40715	0.2	AVRG	
1,1-Dichloroethane	# 0.52254	0.5547	6.2	AVRG#	
2,2-Dichloropropane	0.36792	0.42274	14.9	AVRG	
cis-1,2-Dichloroethene	0.3177	0.34346	8.1	AVRG	
Bromochloromethane	0.3021	0.29685	1.7	AVRG	
Chloroform	* 0.56602	0.59937	5.9	AVRG*	
1,1,1-Trichloroethane	0.43453	0.48459	11.5	AVRG	
Carbon tetrachloride	0.35817	0.42472	18.6	AVRG	
1,1-Dichloropropene	0.36268	0.3653	0.7	AVRG	
Benzene	1.15158	1.216	5.6	AVRG	
1,2-Dichloroethane	0.43122	0.43019	0.2	AVRG	
Trichloroethene	0.30278	0.31525	4.1	AVRG	
1,2-Dichloropropane	* 0.3203	0.33158	3.5	AVRG*	
Dibromomethane	0.22144	0.24365	10.0	AVRG	
Bromodichloromethane	0.40909	0.44929	9.8	AVRG	
cis-1,3-Dichloropropene	0.42768	0.44389	3.8	AVRG	
Toluene	* 0.63562	0.7426	16.8	AVRG*	
trans-1,3-Dichloropropene	40	40.5	1.2	2ORD	
1,1,2-Trichloroethane	0.3099	0.34254	10.5	AVRG	
Tetrachloroethene	0.29166	0.2931	0.5	AVRG	
1,3-Dichloropropane	0.66432	0.61794	7.0	AVRG	
Dibromochloromethane	0.40445	0.43272	7.0	AVRG	
1,2-Dibromoethane	0.43195	0.42934	0.6	AVRG	
Chlorobenzene	# 1.08646	1.074	1.1	AVRG#	
1,1,1,2-Tetrachloroethane	0.37294	0.39593	6.2	AVRG	
Ethylbenzene	* 0.47591	0.48406	1.7	AVRG*	
m,p-Xylene	0.58557	0.63964	9.2	AVRG	
o-Xylene	1.24687	1.249	0.2	AVRG	

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3515596
 Instrument ID: VMS07 Calibration Date: 06/15/15 Time: 0657
 CCV ID: CCV1388123 Lab File ID: 40CCV71.D Init. Calib. Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO
 Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Styrene	40	38.4	4.0	2ORD	
Bromoform	# 0.28096	0.31928	13.6	AVRG#	
Isopropylbenzene	2.99737	2.847	5.0	AVRG	
Bromobenzene	1.79341	1.661	7.4	AVRG	
1,1,2,2-Tetrachloroethane	# 1.36537	1.255	8.1	AVRG#	
1,2,3-Trichloropropane	0.35726	0.35045	1.9	AVRG	
n-Propylbenzene	3.87843	3.949	1.8	AVRG	
2-Chlorotoluene	2.2523	2.202	2.2	AVRG	
4-Chlorotoluene	2.75354	2.812	2.1	AVRG	
1,3,5-Trimethylbenzene	2.43714	2.571	5.5	AVRG	
tert-Butylbenzene	2.14929	2.021	6.0	AVRG	
1,2,4-Trimethylbenzene	2.6554	2.811	5.9	AVRG	
sec-Butylbenzene	3.00999	2.943	2.2	AVRG	
1,3-Dichlorobenzene	1.63692	1.661	1.5	AVRG	
1,4-Dichlorobenzene	1.85281	1.723	7.0	AVRG	
4-Isopropyltoluene	40	38.1	4.7	2ORD	
n-Butylbenzene	2.56967	2.408	6.3	AVRG	
1,2-Dichlorobenzene	1.67932	1.713	2.0	AVRG	
1,2-Dibromo-3-chloropropane	0.20945	0.19319	7.8	AVRG	
1,2,4-Trichlorobenzene	0.82758	0.81942	1.0	AVRG	
Hexachlorobutadiene	40	40.1	0.3	2ORD	
Naphthalene	40	39	2.5	2ORD	
1,2,3-Trichlorobenzene	0.84082	0.89072	5.9	AVRG	
Methyl tert-butyl ether	0.7884	0.90228	14.4	AVRG	
=====					
Dibromofluoromethane(SURR)	0.28382	0.28993	2.2	AVRG	
Toluene-d8(SURR)	0.89664	0.91135	1.6	AVRG	
4-Bromofluorobenzene(SURR)	0.90007	0.86147	4.3	AVRG	
1,2-Dichloroethane-d4(SURR)	0.06659	0.06365	4.4	AVRG	

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No.: _____ SAS No.: _____ SDG No.: 3515596
 Instrument ID: VMS07 Calibration Date: 06/15/15 Time: 1647
 CCV ID: CCV1388124 Lab File ID: 40CCV72.D Init. Calib. Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO
 Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Dichlorodifluoromethane	0.17676	0.16174	8.5	AVRG	
Chloromethane	# 0.24141	0.23141	4.1	AVRG#	
Vinyl chloride	* 0.25445	0.26449	3.9	AVRG*	
Bromomethane	40	36.9	7.8	2ORD	
Chloroethane	0.20658	0.18972	8.2	AVRG	
Trichlorofluoromethane	0.38096	0.42699	12.1	AVRG	
1,1-Dichloroethene	* 0.44068	0.42308	4.0	AVRG*	
Methylene chloride	0.44218	0.40651	8.1	AVRG	
trans-1,2-Dichloroethene	0.40789	0.4005	1.8	AVRG	
1,1-Dichloroethane	# 0.52254	0.5087	2.6	AVRG#	
2,2-Dichloropropane	0.36792	0.39531	7.4	AVRG	
cis-1,2-Dichloroethene	0.3177	0.32984	3.8	AVRG	
Bromochloromethane	0.3021	0.28387	6.0	AVRG	
Chloroform	* 0.56602	0.57844	2.2	AVRG*	
1,1,1-Trichloroethane	0.43453	0.47084	8.4	AVRG	
Carbon tetrachloride	0.35817	0.40649	13.5	AVRG	
1,1-Dichloropropene	0.36268	0.36399	0.4	AVRG	
Benzene	1.15158	1.175	2.0	AVRG	
1,2-Dichloroethane	0.43122	0.41575	3.6	AVRG	
Trichloroethene	0.30278	0.29715	1.9	AVRG	
1,2-Dichloropropane	* 0.3203	0.32016	0.0	AVRG*	
Dibromomethane	0.22144	0.23135	4.5	AVRG	
Bromodichloromethane	0.40909	0.42649	4.3	AVRG	
cis-1,3-Dichloropropene	0.42768	0.41579	2.8	AVRG	
Toluene	* 0.63562	0.70967	11.7	AVRG*	
trans-1,3-Dichloropropene	40	38.2	4.5	2ORD	
1,1,2-Trichloroethane	0.3099	0.32509	4.9	AVRG	
Tetrachloroethene	0.29166	0.3157	8.2	AVRG	
1,3-Dichloropropane	0.66432	0.62874	5.4	AVRG	
Dibromochloromethane	0.40445	0.44134	9.1	AVRG	
1,2-Dibromoethane	0.43195	0.4534	5.0	AVRG	
Chlorobenzene	# 1.08646	1.142	5.1	AVRG#	
1,1,1,2-Tetrachloroethane	0.37294	0.41693	11.8	AVRG	
Ethylbenzene	* 0.47591	0.51709	8.7	AVRG*	
m,p-Xylene	0.58557	0.67483	15.2	AVRG	
o-Xylene	1.24687	1.307	4.8	AVRG	

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3515596
 Instrument ID: VMS07 CalibrationDate: 06/15/15 Time: 1647
 CCV ID: CCV1388124 Lab File ID: 40CCV72.D Init. Calib. Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO
 Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Styrene	40	40.9	2.2	2ORD	
Bromoform	# 0.28096	0.3194	13.7	AVRG	#
Isopropylbenzene	2.99737	2.952	1.5	AVRG	
Bromobenzene	1.79341	1.672	6.8	AVRG	
1,1,2,2-Tetrachloroethane	# 1.36537	1.249	8.5	AVRG	#
1,2,3-Trichloropropane	0.35726	0.3373	5.6	AVRG	
n-Propylbenzene	3.87843	4.038	4.1	AVRG	
2-Chlorotoluene	2.2523	2.239	0.6	AVRG	
4-Chlorotoluene	2.75354	2.852	3.6	AVRG	
1,3,5-Trimethylbenzene	2.43714	2.638	8.2	AVRG	
tert-Butylbenzene	2.14929	2.078	3.3	AVRG	
1,2,4-Trimethylbenzene	2.6554	2.88	8.5	AVRG	
sec-Butylbenzene	3.00999	3.07	2.0	AVRG	
1,3-Dichlorobenzene	1.63692	1.718	5.0	AVRG	
1,4-Dichlorobenzene	1.85281	1.762	4.9	AVRG	
4-Isopropyltoluene	40	39.3	1.8	2ORD	
n-Butylbenzene	2.56967	2.483	3.4	AVRG	
1,2-Dichlorobenzene	1.67932	1.616	3.8	AVRG	
1,2-Dibromo-3-chloropropane	0.20945	0.19318	7.8	AVRG	
1,2,4-Trichlorobenzene	0.82758	0.8416	1.7	AVRG	
Hexachlorobutadiene	40	41.8	4.5	2ORD	
Naphthalene	40	38.9	2.8	2ORD	
1,2,3-Trichlorobenzene	0.84082	0.89727	6.7	AVRG	
Methyl tert-butyl ether	0.7884	0.87875	11.5	AVRG	
=====					
Dibromofluoromethane(SURR)	0.28382	0.28464	0.3	AVRG	
Toluene-d8(SURR)	0.89664	0.90665	1.1	AVRG	
4-Bromofluorobenzene(SURR)	0.90007	0.88285	1.9	AVRG	
1,2-Dichloroethane-d4(SURR)	0.06659	0.06444	3.2	AVRG	

Chain of Custody Documentation

CH2MHILL

CHAIN OF CUSTODY RECORD

3515596 W.H.

Project Name: Former Norton AFB
Location: Former Norton AFB Former Nor
Project Number: 393091.NO.97.15.05
Project Manager: Andy Cramer
Sample Manager: Mike Ladeau
 (714) 227-3324
Task Order:
 Project NORTON GW MONITORING Q22015
 Turnaround Time 21 Days
Shipping Date:
 COC Number: PEL-Q22015

Container:	1L Poly		1L Amber		250-mL Poly		1L Amber		1L Amber		40 mL VOA		1L Amber		COMMENTS
	4C	4C	4C	4C	HNO3, 4C	4C	4C	4C	4C	4C	HCl, pH<2, 4C	4C	4C		
150.1 (pH)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
300.1 (Anions)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
E160.1 (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
method varies (extra 1L Ambers)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SW6010B/SW6020A (Total Metals)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SW8081A (Pesticides)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SW8082A (PCBs)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SW8151A (Herbicides)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SW8260B (VOCs)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SW8260B (VOCs) Trip Blank	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SW8270C (SVOCs)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

TOTAL NUMBER OF CONTAINERS 60

3515596

Approved by	Signatures	Date/Time
Sampled by	<i>[Signature]</i>	<i>[Time]</i>
Relinquished by	<i>[Signature]</i>	<i>[Time]</i>
Received by	<i>[Signature]</i>	<i>[Time]</i>
Relinquished by	<i>[Signature]</i>	<i>[Time]</i>
Received by	<i>[Signature]</i>	<i>[Time]</i>

Shipping Details:
 Method of Shipment: FedEx
 On Ice: Yes / No
 Airbill No:
 Lab Name: Spectrum Analytical
 Lab Phone: (813) 888-9507

ATTN:
 Sample Custody and
 John Heyman

Special Instructions:
 Please e-mail COC copy to Jeannette Harris/SAC at
 jharris4@ch2m.com

Report Copy to:
 Mark Fesler
 (530) 229-3273

pH LOG SHEET

WO#: 3515596

Client/Project Norton

SampNumber	Method	Matrix	pH	Containers	Temp	Acid
351559601	8260AFC	W	< 2	(3)		HCl whallmon 13-Jun-15
351559602	8260AFC	W	< 2	(3)		HCl whallmon 13-Jun-15
351559603	8260AFC	W	< 2	(3)		HCl whallmon 13-Jun-15
351559604	8260AFC	W	< 2	(3)		HCl whallmon 13-Jun-15
351559605	8260AFC	W	< 2	(3)		HCl whallmon 13-Jun-15
351559606	8260AFC	W	< 2	(3)		HCl whallmon 13-Jun-15
351559607	8260AFC	W	< 2	(3)		HCl whallmon 13-Jun-15

FedEx NEW Package
Express US AIRBILL

1 From
Date 6/11/15
Sender's Name
Don Chern/MAA00058776
Company
CHZM HILL
Address
2485 Natamus Park Dr Ste 600
City Sacramento
3 To
Recipient's Name
John Heyman
Company
Spectrum Analytical
Address
8405 Benjamin Road Ste A
Suite A
City Tampa

FedEx Tracking Number
8079 5309 3940
Form No. 0200

4 Express Package Service
NOTE: Service order has changed. Please select carefully.
Next Business Day
FedEx First Overnight
FedEx Priority Overnight
FedEx Standard Overnight

5 Packaging
FedEx Envelope*
FedEx Pak*
FedEx Box
FedEx Tube
Other

6 Special Handling and Delivery Signature Options
SATURDAY Delivery
No Signature Required
Direct Signature
Indirect Signature

7 Payment Bill to:
Sender Account Number
Recipient
Third Party
Credit Card
Cash/Check

2 Your Internal Billing Reference 393091.NO.97.1505
State CA ZIP 95833
3 To Recipient's Name John Heyman
Company Spectrum Analytical
Address 8405 Benjamin Road Ste A
Suite A
City Tampa
State FL ZIP 33634

8079 5309 3940
644
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fedex.com 1800.GoFedEx 1.800.463.3339

Sample Receipt Confirmation Sheet

Client Information			
SDG:	3515596	Level:	3
Client:	CH2M Hill	Date Rec'd:	6/13/2015 9:55:00 AM
Profile:	90011		
Project:	Norton AFB	Profile Name:	Norton

Sample Verification			
Samples/Cooler Secure?	Yes	COC Present?	Yes
Temperature of Samples:	3.2	All Samples on COC accounted For?	Yes
Number of Coolers Received:	1	All Samples Rec'd Intact?	Yes
Temp Gun ID:	130544071	Sample Vol. Sufficient For Analysis	Yes
pH Verified?	Yes	Samples Rec'd W/I Hold Time?	Yes
pH WNL?	Yes	Are All Samples to be Analyzed?	Yes
Samples Received By:	Fed-Ex	Correct Sample Containers?	Yes
Tracking Number:	807953093940	COC Comments written on COC?	Yes
Profile Picked By:	JH	Samplers Initials on COC?	Yes
Soil Origin (Domestic/Foreign):		Sample Date/Time Indicated?	Yes
Site Location/Project on COC?	Yes	TAT Requested:	STD
Client Project # on COC?	Yes	Client Requests Verbal Results?	No
Project Mgr. Indicated on COC?	Yes	Client Requests Faxed Results?	No
COC relinquished/Dated by Client?	Yes	Specific Subcontract Indicated?	No
COC Received/Dated by SA?	Yes	Written on Outside Lab Board?	No
Written on Internal COC?	Yes	Radioactivity Check?	No
Lab to Conduct ALL Analyses?	Yes		

Comments

Specific tests noted on COC.

LABEL REVIEW W.H

PEER REVIEW JH

Client: CH2M Hill

WONo: 3515596

Profile Name: Norton

Profile #: 90011

MATRIX W

Sample #	Bottle	Parameter	Check	Received	Date
01	001	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:24 AM
01	002	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:24 AM
01	003	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:24 AM
01	003	8260AFC Volatile Organic Compounds	Consumed	Marcell Stephens	6/15/2015 8:55:15 AM
02	001	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:25 AM
02	002	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:25 AM
02	003	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:25 AM
02	001	8260AFC Volatile Organic Compounds	Consumed	Marcell Stephens	6/15/2015 8:55:12 AM
03	001	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:25 AM
03	002	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:25 AM
03	003	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:25 AM
03	003	8260AFC Volatile Organic Compounds	Consumed	Marcell Stephens	6/15/2015 8:55:08 AM
03	001	8260AFC Volatile Organic Compounds	Consumed	Marcell Stephens	6/16/2015 11:48:26 AM
04	001	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:25 AM
04	002	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:25 AM
04	003	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:25 AM
04	003	8260AFC Volatile Organic Compounds	Consumed	Marcell Stephens	6/15/2015 8:55:05 AM
05	001	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:26 AM
05	002	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:26 AM
05	003	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:26 AM
05	003	8260AFC Volatile Organic Compounds	Consumed	Marcell Stephens	6/15/2015 8:55:02 AM
06	001	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:26 AM
06	002	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:26 AM
06	003	8260AFC Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:26 AM

WONo: 3515596

Profile Name: Norton

Profile #: 90011

06	001	8260AFC	Volatile Organic Compounds	Consumed	Marcell Stephens	6/15/2015 8:54:59 AM
07	001	8260AFC	Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:26 AM
07	002	8260AFC	Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:26 AM
07	003	8260AFC	Volatile Organic Compounds	In	whallmon	6/13/2015 10:45:26 AM
07	002	8260AFC	Volatile Organic Compounds	Consumed	Marcell Stephens	6/15/2015 8:54:57 AM

Addendum

Letter of Acceptance

Customer Name: CH2M Hill
Date and Time Received: 06/13/2015 9:55
Date to be Reported: 7/7/2015
Laboratory Submission Number/SDG: 3515596

Project: NORTON GW MONITORING Q22015

Samples: The submission consisted of 7 samples, including QC, with sample identification shown in the attached data tables.

Tests: The Samples will be analyzed for EPA methods: 8260AFC.

Sample Custody/COC discrepancies:

None.

Notes:

None.

Distribution of Report to:

CH2M Hill
Attn: Mark Fesler
(W): 530-229-3273

Note: Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis. Spectrum Analytical letters and reports are for the exclusive use of the client to whom they are addressed. Our letters and reports apply to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar materials.

Log-in Report

Level: 3

Total of: 7 analyses on 10 samples (including QC)

16-Jun-15

Report/SDG #: 3515596

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
MW-261-GW-Q22015B	351559601		W	06/11/2015 12:10	06/13/2015 9:55

Method

8260AFC

Volatile Organic Compounds

8260AFC

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
MW184-GW-Q22015	351559602		W	06/11/2015 13:45	06/13/2015 9:55

Method

8260AFC

Volatile Organic Compounds

8260AFC

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
MW261-GW-Q22015	351559603		W	06/11/2015 12:05	06/13/2015 9:55

Method

8260AFC

Volatile Organic Compounds

8260AFC

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
MW274-GW-Q22015	351559604		W	06/11/2015 16:15	06/13/2015 9:55

Method

8260AFC

Volatile Organic Compounds

8260AFC

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
MW289-GW-Q22015	351559605		W	06/11/2015 17:45	06/13/2015 9:55

Method

8260AFC

Volatile Organic Compounds

8260AFC

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
MW401-GW-Q22015	351559606		W	06/11/2015 17:00	06/13/2015 9:55

Method

8260AFC

Volatile Organic Compounds

8260AFC

Report/SDG #: 3515596

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
TBNO-Q22015-01	351559607		W	06/11/2015 10:00	06/13/2015 9:55
Method					
8260AFC		Volatile Organic Compounds		8260AFC	

End Of Report

Date Reported:
09-Jul-15

Spectrum Analytical, Inc. Laboratory Report

- Final Report
- Re-Issued Report
- Revised Report

CH2M Hill
CH2M Hill
Corner of 9th and H St.
Beale AFB, CA 95903

Project #: 3515733
Project: NORTON GW MONITORING Q22015

Attn: Mark Fesler

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
351573301	MW97-GW-Q22015	W	01-Jul-15 8:30	03-Jul-15 9:29
351573302	TBNO-Q22015-02	W	01-Jul-15 8:00	03-Jul-15 9:29

Soil samples are reported on dry weight basis, unless otherwise noted.

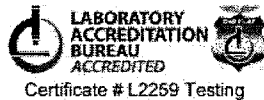
Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis.

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met unless noted in the case narrative.

Please contact the laboratory at 813-888-9507 with any questions regarding the data contained in the laboratory report.

Florida	E84207
Texas	T104704408-14-6
South Carolina	96011001
North Dakota	R-178
California	2908
Louisiana	02025
Arkansas	14-036-0
New Jersey	FL020



Respectfully Submitted,

Brian Spann
Laboratory Director
Spectrum Analytical, Inc. Florida Division

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Executive Summary - Detection Highlights

3515733

No Hits

Organics

Organic Data Qualifiers

- U** Indicates the analyte was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that analyte. The reporting limit can vary from sample to sample depending on dilution factors or the percent moisture adjustment when indicated.
- J** Indicates estimated value. It is used when the data indicates the presence of an analyte above the method detection limit (MDL) yet lower than the reporting limit.
- B** Indicates the analyte was found in the associated blank as well as in the sample. The notation indicates possible contamination of the sample.
- E** Indicates the value reported is above the highest calibration standard for that analyte. The sample should be analyzed at an appropriate dilution. "E" qualified values are estimations and the diluted result may be reported on another Form 1.
- D** Indicates the analyte has been identified in a dilution reanalysis. "D" qualifiers are used for samples that have been analyzed at a lesser dilution than required for accurate quantitation.
- C** The "C" qualifier indicates the presence of this analyte has been confirmed by GC/MS analysis.
- P** This qualifier is used for pesticide / Aroclor target analytes where there is greater than 40% difference for the detected concentration between the two GC columns.
- N** This qualifier indicates presumptive evidence of an analyte. This qualifier is only used for tentatively identified compounds (TIC), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.
- A** This qualifier indicates that a TIC is a suspected aldol-condensation product.
- X** Data flagged as rejected by analyst utilizing analytical judgement.
- Q** Indicates estimated value. The reported value did not meet established quality control criteria for either precision or accuracy. Please refer to the method narrative for further information.

Organic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for organic analysis are defined below:

- DL** Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.
- R** Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.
- RE** Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.
- MS** Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).
- SD** Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

SW8260C Volatile Organics

CASE NARRATIVE
Volatile Organic

Spectrum Analytical Inc. Lab Reference No./SDG: 3515733

Client: CH2M Hill

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation:

All holding times were met.

B. Sample Analysis:

All holding times were met.

III. METHODS

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW8260C

IV. PREPARATION

Water samples were prepared by SW846/5030A for volatiles analysis. All aspects of sample preparation proceeded without exception.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met. Closing CCV criteria is 50%D.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met with the exception of:

LCS 289264LCS was analyzed with the water samples on 07/07/15. The following analyte(s) were recovered above criteria: Hexachlorobutadiene at 119 % with criteria of (75-115). No further action taken since, marginal exceedance criteria were met.

Samples coded accordingly.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

CASE NARRATIVE
Volatile Organic

Spectrum Analytical Inc. Lab Reference No./SDG: 3515733

Client: CH2M Hill

No spikes requested by client.

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 
Name: Brian C. Spanik Title: Lab Director

SIGNED:

DATE: 07/08/2015

VOLATILE ORGANIC CROSS REFERENCE TABLE

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q220
Lab Code : PEL Case No. SAS No: SDG No.: 3515733

Method: SW8260C

EPA Sample No	Lab Sample ID
<u>MW97-GW-Q22015</u>	<u>351573301</u>
<u>TBNO-Q22015-02</u>	<u>351573302</u>

SW8260C Sample Data

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW97-GW-Q22015

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3515733

Matrix: WATER Lab Sample ID: 351573301 Lab File ID: 573301.D

Sample wt/vol: 5 Units: ML Date Received: 07/03/15

Concentrated Extract Volume: 5 Date Extracted: _____

Level:(low/med) LOW Date Analyzed: 07/07/15 Time: 1041

PercentSolids: 0 decanted : _____ Dilution Factor: 1

Extraction: PURGETRAP Station ID: _____

GPC Cleanup : (Y/N) _____ pH: _____

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
75-71-8	Dichlorodifluoromethane	0.6	U	0.6	1
74-87-3	Chloromethane	0.32	U	0.32	1
75-01-4	Vinyl chloride	0.18	U	0.18	0.7
74-83-9	Bromomethane	0.43	U	0.43	1
75-00-3	Chloroethane	0.72	U	0.72	2
75-69-4	Trichlorofluoromethane	0.4	U	0.4	1
75-35-4	1,1-Dichloroethene	0.19	U	0.19	0.5
75-09-2	Methylene chloride	0.66	U	0.66	2
156-60-5	trans-1,2-Dichloroethene	0.33	U	0.33	1
75-34-3	1,1-Dichloroethane	0.5	U	0.5	1
594-20-7	2,2-Dichloropropane	0.6	U	0.6	1
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	0.5
74-97-5	Bromochloromethane	0.17	U	0.17	1
67-66-3	Chloroform	0.16	U	0.16	0.5
71-55-6	1,1,1-Trichloroethane	0.14	U	0.14	1
56-23-5	Carbon tetrachloride	0.14	U	0.14	0.5
563-58-6	1,1-Dichloropropene	0.3	U	0.3	1
71-43-2	Benzene	0.17	U	0.17	0.5
107-06-2	1,2-Dichloroethane	0.15	U	0.15	1
79-01-6	Trichloroethene	0.19	U	0.19	0.5
78-87-5	1,2-Dichloropropane	0.15	U	0.15	0.5
74-95-3	Dibromomethane	0.4	U	0.4	1
75-27-4	Bromodichloromethane	0.15	U	0.15	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW97-GW-Q22015

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code: PEL Case No. SAS No: SDG No.: 3515733

Matrix: WATER Lab Sample ID: 351573301 Lab File ID: 573301.D

Sample wt/vol: 5 Units: ML Date Received: 07/03/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 07/07/15 Time: 1041

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene	0.4	U	0.4	1
108-88-3	Toluene	0.14	U	0.14	0.5
10061-02-6	trans-1,3-Dichloropropene	0.3	U	0.3	1
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	1
127-18-4	Tetrachloroethene	0.21	U	0.21	0.5
142-28-9	1,3-Dichloropropane	0.3	U	0.3	1
124-48-1	Dibromochloromethane	0.13	U	0.13	1
106-93-4	1,2-Dibromoethane	0.11	U	0.11	1
108-90-7	Chlorobenzene	0.16	U	0.16	0.5
630-20-6	1,1,1,2-Tetrachloroethane	0.14	U	0.14	1
100-41-4	Ethylbenzene	0.22	U	0.22	0.5
179601-23-1	m,p-Xylene	0.23	U	0.23	0.5
95-47-6	o-Xylene	0.5	U	0.5	1
100-42-5	Styrene	0.13	U	0.13	1
75-25-2	Bromoform	0.19	U	0.19	1
98-82-8	Isopropylbenzene	0.14	U	0.14	1
108-86-1	Bromobenzene	0.21	U	0.21	1
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.13	1
96-18-4	1,2,3-Trichloropropane	0.35	U	0.35	1
103-65-1	n-Propylbenzene	0.14	U	0.14	1
95-49-8	2-Chlorotoluene	0.25	U	0.25	1
106-43-4	4-Chlorotoluene	0.15	U	0.15	1
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW97-GW-Q22015

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3515733

Matrix: WATER Lab Sample ID: 351573301 Lab File ID: 573301.D

Sample wt/vol: 5 Units: ML Date Received: 07/03/15

Concentrated Extract Volume: 5 Date Extracted: _____

Level:(low/med) LOW Date Analyzed: 07/07/15 Time: 1041

PercentSolids: 0 decanted : _____ Dilution Factor: 1

Extraction: PURGETRAP Station ID: _____

GPC Cleanup : (Y/N) _____ pH: _____

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
98-06-6	tert-Butylbenzene	0.2	U	0.2	1
95-63-6	1,2,4-Trimethylbenzene	0.13	U	0.13	1
135-98-8	sec-Butylbenzene	0.1	U	0.1	1
541-73-1	1,3-Dichlorobenzene	0.15	U	0.15	1
106-46-7	1,4-Dichlorobenzene	0.16	U	0.16	0.5
99-87-6	4-Isopropyltoluene	0.14	U	0.14	1
104-51-8	n-Butylbenzene	0.16	U	0.16	1
95-50-1	1,2-Dichlorobenzene	0.25	U	0.25	0.5
96-12-8	1,2-Dibromo-3-chloropropane	1	U	1	2
120-82-1	1,2,4-Trichlorobenzene	0.4	U	0.4	1
87-68-3	Hexachlorobutadiene	0.36	U	0.36	1
91-20-3	Naphthalene	0.5	U	0.5	1
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.5	1
1634-04-4	Methyl tert-butyl ether	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
TBNO-Q22015-02

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3515733

Matrix: WATER Lab Sample ID: 351573302 Lab File ID: 573302.D

Sample wt/vol: 5 Units: ML Date Received: 07/03/15

Concentrated Extract Volume: 5 Date Extracted: _____

Level:(low/med) LOW Date Analyzed: 07/07/15 Time: 1102

PercentSolids: 0 decanted : _____ Dilution Factor: 1

Extraction: PURGETRAP Station ID: _____

GPC Cleanup : (Y/N) _____ pH: _____

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
75-71-8	Dichlorodifluoromethane	0.6	U	0.6	1
74-87-3	Chloromethane	0.32	U	0.32	1
75-01-4	Vinyl chloride	0.18	U	0.18	0.7
74-83-9	Bromomethane	0.43	U	0.43	1
75-00-3	Chloroethane	0.72	U	0.72	2
75-69-4	Trichlorofluoromethane	0.4	U	0.4	1
75-35-4	1,1-Dichloroethene	0.19	U	0.19	0.5
75-09-2	Methylene chloride	0.66	U	0.66	2
156-60-5	trans-1,2-Dichloroethene	0.33	U	0.33	1
75-34-3	1,1-Dichloroethane	0.5	U	0.5	1
594-20-7	2,2-Dichloropropane	0.6	U	0.6	1
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	0.5
74-97-5	Bromochloromethane	0.17	U	0.17	1
67-66-3	Chloroform	0.16	U	0.16	0.5
71-55-6	1,1,1-Trichloroethane	0.14	U	0.14	1
56-23-5	Carbon tetrachloride	0.14	U	0.14	0.5
563-58-6	1,1-Dichloropropene	0.3	U	0.3	1
71-43-2	Benzene	0.17	U	0.17	0.5
107-06-2	1,2-Dichloroethane	0.15	U	0.15	1
79-01-6	Trichloroethene	0.19	U	0.19	0.5
78-87-5	1,2-Dichloropropane	0.15	U	0.15	0.5
74-95-3	Dibromomethane	0.4	U	0.4	1
75-27-4	Bromodichloromethane	0.15	U	0.15	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
TBNO-Q22015-02

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code: PEL Case No. SAS No: SDG No.: 3515733

Matrix: WATER Lab Sample ID: 351573302 Lab File ID: 573302.D

Sample wt/vol: 5 Units: ML Date Received: 07/03/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 07/07/15 Time: 1102

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
10061-01-5	cis-1,3-Dichloropropene	0.4	U	0.4	1
108-88-3	Toluene	0.14	U	0.14	0.5
10061-02-6	trans-1,3-Dichloropropene	0.3	U	0.3	1
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	1
127-18-4	Tetrachloroethene	0.21	U	0.21	0.5
142-28-9	1,3-Dichloropropane	0.3	U	0.3	1
124-48-1	Dibromochloromethane	0.13	U	0.13	1
106-93-4	1,2-Dibromoethane	0.11	U	0.11	1
108-90-7	Chlorobenzene	0.16	U	0.16	0.5
630-20-6	1,1,1,2-Tetrachloroethane	0.14	U	0.14	1
100-41-4	Ethylbenzene	0.22	U	0.22	0.5
179601-23-1	m,p-Xylene	0.23	U	0.23	0.5
95-47-6	o-Xylene	0.5	U	0.5	1
100-42-5	Styrene	0.13	U	0.13	1
75-25-2	Bromoform	0.19	U	0.19	1
98-82-8	Isopropylbenzene	0.14	U	0.14	1
108-86-1	Bromobenzene	0.21	U	0.21	1
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.13	1
96-18-4	1,2,3-Trichloropropane	0.35	U	0.35	1
103-65-1	n-Propylbenzene	0.14	U	0.14	1
95-49-8	2-Chlorotoluene	0.25	U	0.25	1
106-43-4	4-Chlorotoluene	0.15	U	0.15	1
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.5	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
TBNO-Q22015-02

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code : PEL Case No. SAS No: SDG No.: 3515733

Matrix: WATER Lab Sample ID: 351573302 Lab File ID: 573302.D

Sample wt/vol: 5 Units: ML Date Received: 07/03/15

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 07/07/15 Time: 1102

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID:

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
98-06-6	tert-Butylbenzene	0.2	U	0.2	1
95-63-6	1,2,4-Trimethylbenzene	0.13	U	0.13	1
135-98-8	sec-Butylbenzene	0.1	U	0.1	1
541-73-1	1,3-Dichlorobenzene	0.15	U	0.15	1
106-46-7	1,4-Dichlorobenzene	0.16	U	0.16	0.5
99-87-6	4-Isopropyltoluene	0.14	U	0.14	1
104-51-8	n-Butylbenzene	0.16	U	0.16	1
95-50-1	1,2-Dichlorobenzene	0.25	U	0.25	0.5
96-12-8	1,2-Dibromo-3-chloropropane	1	U	1	2
120-82-1	1,2,4-Trichlorobenzene	0.4	U	0.4	1
87-68-3	Hexachlorobutadiene	0.36	U	0.36	1
91-20-3	Naphthalene	0.5	U	0.5	1
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.5	1
1634-04-4	Methyl tert-butyl ether	0.5	U	0.5	1

SW8260C QC Summary

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q2 289268MB

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3515733

Matrix: WATER Lab Sample ID: 289268MB Lab File ID: BLK71.D

Sample wt/vol: 5 Units: ML Date Received: 07/07/15

Concentrated Extract Volume: 5 Date Extracted: _____

Level:(low/med) LOW Date Analyzed: 07/07/15 Time: 0916

PercentSolids: 0 decanted : (_____ Dilution Factor: 1

Extraction: PURGETRAP Station ID: _____

GPC Cleanup : (Y/N) _____ pH: _____

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
75-71-8	Dichlorodifluoromethane	0.6	U	0.6	1
74-87-3	Chloromethane	0.32	U	0.32	1
75-01-4	Vinyl chloride	0.18	U	0.18	0.7
74-83-9	Bromomethane	0.43	U	0.43	1
75-00-3	Chloroethane	0.72	U	0.72	2
75-69-4	Trichlorofluoromethane	0.4	U	0.4	1
75-35-4	1,1-Dichloroethene	0.19	U	0.19	0.5
75-09-2	Methylene chloride	0.66	U	0.66	2
156-60-5	trans-1,2-Dichloroethene	0.33	U	0.33	1
75-34-3	1,1-Dichloroethane	0.5	U	0.5	1
594-20-7	2,2-Dichloropropane	0.6	U	0.6	1
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	0.5
74-97-5	Bromochloromethane	0.17	U	0.17	1
67-66-3	Chloroform	0.16	U	0.16	0.5
71-55-6	1,1,1-Trichloroethane	0.14	U	0.14	1
56-23-5	Carbon tetrachloride	0.14	U	0.14	0.5
563-58-6	1,1-Dichloropropene	0.3	U	0.3	1
71-43-2	Benzene	0.17	U	0.17	0.5
107-06-2	1,2-Dichloroethane	0.15	U	0.15	1
79-01-6	Trichloroethene	0.19	U	0.19	0.5
78-87-5	1,2-Dichloropropane	0.15	U	0.15	0.5
74-95-3	Dibromomethane	0.4	U	0.4	1
75-27-4	Bromodichloromethane	0.15	U	0.15	1
10061-01-5	cis-1,3-Dichloropropene	0.4	U	0.4	1
108-88-3	Toluene	0.14	U	0.14	0.5
10061-02-6	trans-1,3-Dichloropropene	0.3	U	0.3	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q2 289268MB

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3515733

Matrix: WATER Lab Sample ID: 289268MB Lab File ID: BLK71.D

Sample wt/vol: 5 Units: ML Date Received: 07/07/15

Concentrated Extract Volume: 5 Date Extracted: _____

Level:(low/med) LOW Date Analyzed: 07/07/15 Time: 0916

PercentSolids: 0 decanted : (_____) Dilution Factor: 1

Extraction: PURGETRAP Station ID: _____

GPC Cleanup : (Y/N) _____ pH: _____

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
79-00-5	1,1,2-Trichloroethane	0.2	U	0.2	1
127-18-4	Tetrachloroethene	0.21	U	0.21	0.5
142-28-9	1,3-Dichloropropane	0.3	U	0.3	1
124-48-1	Dibromochloromethane	0.13	U	0.13	1
106-93-4	1,2-Dibromoethane	0.11	U	0.11	1
108-90-7	Chlorobenzene	0.16	U	0.16	0.5
630-20-6	1,1,1,2-Tetrachloroethane	0.14	U	0.14	1
100-41-4	Ethylbenzene	0.22	U	0.22	0.5
179601-23-1	m,p-Xylene	0.23	U	0.23	0.5
95-47-6	o-Xylene	0.5	U	0.5	1
100-42-5	Styrene	0.13	U	0.13	1
75-25-2	Bromoform	0.19	U	0.19	1
98-82-8	Isopropylbenzene	0.14	U	0.14	1
108-86-1	Bromobenzene	0.21	U	0.21	1
79-34-5	1,1,1,2-Tetrachloroethane	0.13	U	0.13	1
96-18-4	1,2,3-Trichloropropane	0.35	U	0.35	1
103-65-1	n-Propylbenzene	0.14	U	0.14	1
95-49-8	2-Chlorotoluene	0.25	U	0.25	1
106-43-4	4-Chlorotoluene	0.15	U	0.15	1
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.5	1
98-06-6	tert-Butylbenzene	0.2	U	0.2	1
95-63-6	1,2,4-Trimethylbenzene	0.13	U	0.13	1
135-98-8	sec-Butylbenzene	0.1	U	0.1	1
541-73-1	1,3-Dichlorobenzene	0.15	U	0.15	1
106-46-7	1,4-Dichlorobenzene	0.16	U	0.16	0.5
99-87-6	4-Isopropyltoluene	0.14	U	0.14	1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
289268MB

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q2

Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3515733

Matrix: WATER Lab Sample ID: 289268MB Lab File ID: BLK71.D

Sample wt/vol: 5 Units: ML Date Received: 07/07/15

Concentrated Extract Volume: 5 Date Extracted: _____

Level:(low/med) LOW Date Analyzed: 07/07/15 Time: 0916

PercentSolids: 0 decanted : (_____ Dilution Factor: 1

Extraction: PURGETRAP Station ID: _____

GPC Cleanup : (Y/N) _____ pH: _____

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: ug/L

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
104-51-8	n-Butylbenzene	0.16	U	0.16	1
95-50-1	1,2-Dichlorobenzene	0.25	U	0.25	0.5
96-12-8	1,2-Dibromo-3-chloropropane	1	U	1	2
120-82-1	1,2,4-Trichlorobenzene	0.4	U	0.4	1
87-68-3	Hexachlorobutadiene	0.36	U	0.36	1
91-20-3	Naphthalene	0.5	U	0.5	1
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.5	1
1634-04-4	Methyl tert-butyl ether	0.5	U	0.5	1

VOLATILE ORGANIC METHOD BLANK SUMMARY

Lab Name: Spectrum Analytical, Inc Contract: NORTON GW MONITORING Q220 EPA Sample No. 289268MB

Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3515733

Lab File ID: BLK71.D Lab Sample ID: 289268MB

Instrument ID: VMS07 Date Extracted: _____

Matrix: WATER Date Analyzed: 07/07/15

Level:(low/med) LOW Time Analyzed: 0916

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	289264LCS	289264LCS	LCS71.D	07/07/15	0811
2	289265LCSD	289265LCSD	LCS71D.D	07/07/15	0833
3	MW97-GW-Q22015	351573301	573301.D	07/07/15	1041
4	TBNO-Q22015-02	351573302	573302.D	07/07/15	1102

COMMENTS:

2A

WATER VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

Lab Code: PEL Case No. SAS No: SDG NO.: 3515733

Column(1): DB-624 ID: 0.18 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
289264LCS	102.0	100.0	90.0	97.3			0
289265LCSD	110.0	106.0	93.8	104.0			0
289268MB	109.0	95.8	100.0	108.0			0
MW97-GW-Q22015	106.0	93.3	97.3	105.0			0
TBNO-Q22015-02	107.0	92.5	97.0	103.0			0

Control Limits

S1 = Dibromofluoromethane 83 - 128
S2 = Toluene-d8 75 - 125
S3 = 4-Bromofluorobenzene 75 - 125
S4 = 1,2-Dichloroethane-d4 62 - 139

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out
Control limit source: (lab/method) AFCEE

Form II

**VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION -
BROMOFLUOROBENZENE (BFB)**

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q2201
 Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 3515733
 Lab File ID: BFB71.D BFB Injection Date: 05/21/15
 Instrument ID: VMS07 BFB Injection Time: 0603
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.1
75	30.0 - 60.0% of mass 95	46.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 100.0% of mass 95	85
175	5.0 - 9.0% of mass 174	6.5 (7.65)1
176	95.0 - 101% of mass 174	81.6 (96)1
177	5.0 - 9.0% of mass 176	6 (7.35)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	80PPB	80PPB	80PPB.D	05/21/15	0726
2	60PPB	60PPB	60PPB.D	05/21/15	0747
3	40PPB	40PPB	40PPB.D	05/21/15	0808
4	20PPB	20PPB	20PPB.D	05/21/15	0829
5	10PPB	10PPB	10PPB.D	05/21/15	0851
6	5PPB	5PPB	5PPB.D	05/21/15	0912
7	2PPB	2PPB	2PPB.D	05/21/15	0933
8	1PPB	1PPB	1PPB.D	05/21/15	0955
9	500PPT	500PPT	500PPT.D	05/21/15	1016
10	200PPT	200PPT	200PPT.D	05/21/15	1037
11	SEC71	SEC71	SEC71.D	05/21/15	1058

**VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION -
BROMOFLUOROBENZENE (BFB)**

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q2201
 Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 3515733
 Lab File ID: BFB71.D BFB Injection Date: 07/07/15
 Instrument ID: VMS07 BFB Injection Time: 0603
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.4
75	30.0 - 60.0% of mass 95	48.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.8 (0.86)1
174	50.0 - 100.0% of mass 95	93.3
175	5.0 - 9.0% of mass 174	6.4 (6.86)1
176	95.0 - 101% of mass 174	89.4 (95.82)1
177	5.0 - 9.0% of mass 176	5.4 (6.04)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	289263CCV	289263CCV	40CCV71.D	07/07/15	0737
2	289264LCS	289264LCS	LCS71.D	07/07/15	0811
3	289265LCSD	289265LCSD	LCS71D.D	07/07/15	0833
4	289268MB	289268MB	BLK71.D	07/07/15	0916
5	MW97-GW-Q22015	351573301	573301.D	07/07/15	1041
6	TBNO-Q22015-02	351573302	573302.D	07/07/15	1102
7	289267CCV	289267CCV	40CCV72.D	07/07/15	1725

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22
Lab Code : PEL Case No.: _____ SAS No: _____ SDG No.: 3515733
Lab File ID (Standard): 40PPB.D Date Analyzed: 5/21/2015
Instrument ID: VMS07 Time Analyzed: 8:08
GC Column: DB-624 ID: 0.18 (mm)
Matrix: (soil/water) W Heated Purge: (Y/N) No

	IS1 AREA #	RT	IS2 AREA #	RT	IS3 AREA #	RT
MID CAL STD	2017395	6.57	1553650	9.11	804428	10.51
UPPER LIMIT	4034790	7.07	3107300	9.61	1608856	11.01
LOWER LIMIT	1008697.5	6.07	776825	8.61	402214	10.01
EPA SAMPLE NO.						
1 289264LCS	2237756	6.56	1936275	9.11	958459	10.51
2 289265LCSD	2133686	6.56	1845053	9.11	939168	10.51
3 289268MB	1997889	6.56	1534343	9.11	634801	10.52
4 MW97-GW-Q22015	1960136	6.57	1489215	9.11	632020	10.52
5 TBNO-Q22015-02	1926101	6.56	1477136	9.11	611553	10.52

IS1 = Fluorobenzene

IS2 = Chlorobenzene-d5

IS3 = 1,4-Dichlorobenzene-d4

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area

Column used to flag internal standard area values with an asterisk

VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No. SAS No: SDG No.: 3515733
 GC Column: DB-624 ID: 0.18 (mm) Init. Calib. Date: 05/21/15
 Instrument ID: VMS07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION									
S1 : 5.82 S2 : 8.08 S3 : 9.84 S4 : 6.19									
	CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #	S3 RT #	S4 RT #
1	052115BFB71	052115BFB71	BFB71.D	05/21/15	0603				
2	STD1379755	80PPB	80PPB.D	05/21/15	0726				
3	STD1379754	60PPB	60PPB.D	05/21/15	0747	5.82	8.08	9.84	6.19
4	STD1379751	40PPB	40PPB.D	05/21/15	0808	5.82	8.08	9.84	6.19
5	STD1379722	20PPB	20PPB.D	05/21/15	0829	5.82	8.08	9.85	6.19
6	STD1379719	10PPB	10PPB.D	05/21/15	0851	5.82	8.08	9.85	6.19
7	STD1379753	5PPB	5PPB.D	05/21/15	0912	5.82	8.08	9.85	6.19
8	STD1379729	2PPB	2PPB.D	05/21/15	0933				
9	STD1379720	1PPB	1PPB.D	05/21/15	0955				
10	STD1379752	500PPT	500PPT.D	05/21/15	1016				
11	STD1379721	200PPT	200PPT.D	05/21/15	1037				6.2
12	SSC1379756	SEC71	SEC71.D	05/21/15	1058	5.82	8.08	9.84	6.19
13	289262BFB	289262BFB	BFB71.D	07/07/15	0603				
14	CCV1394349	289263CCV	40CCV71.D	07/07/15	0737	5.81	8.08	9.84	6.19
15	289264LCS	289264LCS	LCS71.D	07/07/15	0811	5.81	8.08	9.84	6.19
16	289265LCSD	289265LCSD	LCS71D.D	07/07/15	0833	5.82	8.08	9.84	6.19
17	289268MB	289268MB	BLK71.D	07/07/15	0916	5.82	8.08	9.84	6.19
18	ZZZZZZ	ZZZZZZ	ZZZZZZ	07/07/15	0937				
19	ZZZZZZ	ZZZZZZ	ZZZZZZ	07/07/15	0958				
20	ZZZZZZ	ZZZZZZ	ZZZZZZ	07/07/15	1020				
21	MW97-GW-Q22015	351573301	573301.D	07/07/15	1041	5.82	8.08	9.84	6.19
22	TBNO-Q22015-02	351573302	573302.D	07/07/15	1102	5.82	8.08	9.84	6.19
23	ZZZZZZ	ZZZZZZ	ZZZZZZ	07/07/15	1124				
24	ZZZZZZ	ZZZZZZ	ZZZZZZ	07/07/15	1145				
25	ZZZZZZ	ZZZZZZ	ZZZZZZ	07/07/15	1206				
26	ZZZZZZ	ZZZZZZ	ZZZZZZ	07/07/15	1228				

QC LIMITS

S1 = Dibromofluoromethane (+/- 0.39 MINUTES)
 S2 = Toluene-d8 (+/- 0.39 MINUTES)
 S3 = 4-Bromofluorobenzene (+/- 0.63 MINUTES)
 S4 = 1,2-Dichloroethane-d4 (+/- 0.39 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No. SAS No: SDG No.: 3515733
 GC Column: DB-624 ID: 0.18 (mm) Init. Calib. Date: 05/21/15
 Instrument ID: VMS07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MIDCAL SURROGATE RT FROM INITIAL CALIBRATION									
S1 : 5.82 S2 : 8.08 S3 : 9.84 S4 : 6.19									
CLIENT SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #	S3 RT #	S4 RT #	
27	ZZZZZZ	ZZZZZZ	07/07/15	1249					
28	ZZZZZZ	ZZZZZZ	07/07/15	1310					
29	ZZZZZZ	ZZZZZZ	07/07/15	1331					
30	ZZZZZZ	ZZZZZZ	07/07/15	1353					
31	ZZZZZZ	ZZZZZZ	07/07/15	1414					
32	ZZZZZZ	ZZZZZZ	07/07/15	1435					
33	ZZZZZZ	ZZZZZZ	07/07/15	1456					
34	ZZZZZZ	ZZZZZZ	07/07/15	1518					
35	ZZZZZZ	ZZZZZZ	07/07/15	1539					
36	ZZZZZZ	ZZZZZZ	07/07/15	1600					
37	ZZZZZZ	ZZZZZZ	07/07/15	1621					
38	ZZZZZZ	ZZZZZZ	07/07/15	1643					
39	ZZZZZZ	ZZZZZZ	07/07/15	1704					
40	CCV1394353	289267CCV	40CCV72.D	07/07/15	1725	5.82	8.08	9.84	6.19

QC LIMITS

S1 = Dibromofluoromethane (+/- 0.39 MINUTES)
 S2 = Toluene-d8 (+/- 0.39 MINUTES)
 S3 = 4-Bromofluorobenzene (+/- 0.63 MINUTES)
 S4 = 1,2-Dichloroethane-d4 (+/- 0.39 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

289264LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3515733

COMPOUND	SPIKE ADDED ug/L	LCS CONCENTRATION ug/L	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
Dichlorodifluoromethane	20	25	124.0			56 - 126
Chloromethane	20	22	108.0			78 - 120
Vinyl chloride	20	21	105.0			46 - 134
Bromomethane	20	13	66.5			30 - 136
Chloroethane	20	23	117.0			73 - 127
Trichlorofluoromethane	20	24	118.0			72 - 122
1,1-Dichloroethene	20	18	89.5			75 - 125
Methylene chloride	20	16	81.0			80 - 122
trans-1,2-Dichloroethene	20	19	93.5			75 - 125
1,1-Dichloroethane	20	19	97.0			72 - 125
2,2-Dichloropropane	20	22	110.0			71 - 116
cis-1,2-Dichloroethene	20	22	108.0			75 - 125
Bromochloromethane	20	17	86.0			78 - 118
Chloroform	20	21	105.0			74 - 125
1,1,1-Trichloroethane	20	23	115.0			75 - 125
Carbon tetrachloride	20	24	122.0			62 - 125
1,1-Dichloropropene	20	19	97.0			75 - 116
Benzene	20	20	102.0			75 - 125
1,2-Dichloroethane	20	19	93.5			68 - 127
Trichloroethene	20	21	106.0			71 - 125
1,2-Dichloropropane	20	20	98.0			75 - 117
Dibromomethane	20	21	106.0			75 - 130
Bromodichloromethane	20	22	108.0			75 - 125
cis-1,3-Dichloropropene	20	18	92.0			80 - 130
Toluene	20	23	116.0			74 - 125
trans-1,3-Dichloropropene	20	18	92.5			81 - 130
1,1,2-Trichloroethane	20	22	108.0			75 - 130
Tetrachloroethene	20	22	112.0			71 - 125
1,3-Dichloropropane	20	17	85.0			80 - 117
Dibromochloromethane	20	22	108.0			80 - 130
1,2-Dibromoethane	20	19	96.0			75 - 130
Chlorobenzene	20	20	102.0			75 - 120

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) AFCEE

COMMENTS: _____

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

289264LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3515733

COMPOUND	SPIKE ADDED ug/L	LCS CONCENTRATION ug/L	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	20	22	110.0			75 - 130
Ethylbenzene	20	20	98.0			75 - 125
m,p-Xylene	40	42	106.0			75 - 125
o-Xylene	20	18	89.5			75 - 125
Styrene	20	18	92.5			75 - 120
Bromoform	20	23	117.0			62 - 130
Isopropylbenzene	20	18	88.0			75 - 120
Bromobenzene	20	17	86.5			81 - 119
1,1,2,2-Tetrachloroethane	20	17	84.5			82 - 120
1,2,3-Trichloropropane	20	19	94.0			80 - 120
n-Propylbenzene	20	19	96.0			80 - 126
2-Chlorotoluene	20	19	94.0			75 - 122
4-Chlorotoluene	20	20	99.5			80 - 120
1,3,5-Trimethylbenzene	20	20	99.5			75 - 116
tert-Butylbenzene	20	17	86.5			80 - 120
1,2,4-Trimethylbenzene	20	20	100.0			75 - 120
sec-Butylbenzene	20	19	94.0			75 - 123
1,3-Dichlorobenzene	20	21	104.0			75 - 120
1,4-Dichlorobenzene	20	20	99.5			75 - 120
4-Isopropyltoluene	20	19	93.0			75 - 119
n-Butylbenzene	20	17	83.0			75 - 130
1,2-Dichlorobenzene	20	20	99.5			75 - 120
1,2-Dibromo-3-chloropropane	20	17	84.0			74 - 130
1,2,4-Trichlorobenzene	20	20	100.0			75 - 120
Hexachlorobutadiene	20	24	119.0*			75 - 115
Naphthalene	20	19	94.0			75 - 125
1,2,3-Trichlorobenzene	20	21	104.0			75 - 130
Methyl tert-butyl ether	20	20	97.5			76 - 130

Spike Recovery: 1 out of 60 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) AFCEE

COMMENTS: _____

Form III

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

289265LCSD

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3515733

COMPOUND	SPIKE ADDED ug/L	LCS CONCENTRATION ug/L	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
Dichlorodifluoromethane	20	24	119.0	4.5	17	56 - 126
Chloromethane	20	21	106.0	1.4	15	78 - 120
Vinyl chloride	20	21	106.0	0.5	20	46 - 134
Bromomethane	20	15	73.0	9.3	15	30 - 136
Chloroethane	20	21	103.0	12.7	15	73 - 127
Trichlorofluoromethane	20	23	116.0	1.3	15	72 - 122
1,1-Dichloroethene	20	18	90.0	0.6	20	75 - 125
Methylene chloride	20	16	81.0	0.0	15	80 - 122
trans-1,2-Dichloroethene	20	19	96.0	2.6	20	75 - 125
1,1-Dichloroethane	20	20	99.5	2.5	20	72 - 125
2,2-Dichloropropane	20	22	110.0	0.9	13	71 - 116
cis-1,2-Dichloroethene	20	22	108.0	0.5	20	75 - 125
Bromochloromethane	20	17	87.0	1.2	20	78 - 118
Chloroform	20	22	108.0	2.4	20	74 - 125
1,1,1-Trichloroethane	20	23	116.0	0.4	20	75 - 125
Carbon tetrachloride	20	24	120.0	1.6	20	62 - 125
1,1-Dichloropropene	20	19	96.5	0.5	15	75 - 116
Benzene	20	21	104.0	1.5	20	75 - 125
1,2-Dichloroethane	20	20	97.5	4.2	20	68 - 127
Trichloroethene	20	22	108.0	1.9	20	71 - 125
1,2-Dichloropropane	20	20	98.0	0.0	15	75 - 117
Dibromomethane	20	22	109.0	3.3	15	75 - 130
Bromodichloromethane	20	22	108.0	0.0	20	75 - 125
cis-1,3-Dichloropropene	20	19	93.5	1.6	15	80 - 130
Toluene	20	23	114.0	0.9	20	74 - 125
trans-1,3-Dichloropropene	20	19	94.0	1.6	15	81 - 130
1,1,2-Trichloroethane	20	23	114.0	4.9	15	75 - 130
Tetrachloroethene	20	22	112.0	0.4	20	71 - 125
1,3-Dichloropropane	20	18	87.5	2.9	15	80 - 117
Dibromochloromethane	20	22	112.0	2.7	15	80 - 130
1,2-Dibromoethane	20	20	100.0	4.6	15	75 - 130
Chlorobenzene	20	21	105.0	2.4	15	75 - 120

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) AFCEE

COMMENTS: _____

Form III

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING

289265LCSD

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 3515733

COMPOUND	SPIKE ADDED ug/L	LCS CONCENTRATION ug/L	LCS % REC #	LCS % RPD	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	20	22	110.0	0.9	15	75 - 130
Ethylbenzene	20	20	99.0	1.0	20	75 - 125
m,p-Xylene	40	42	104.0	1.9	20	75 - 125
o-Xylene	20	18	88.0	1.7	20	75 - 125
Styrene	20	18	91.5	1.1	15	75 - 120
Bromoform	20	25	123.0	5.0	15	62 - 130
Isopropylbenzene	20	17	84.5	4.1	15	75 - 120
Bromobenzene	20	17	85.5	1.2	15	81 - 119
1,1,2,2-Tetrachloroethane	20	18	88.5	4.6	15	82 - 120
1,2,3-Trichloropropane	20	20	100.0	6.2	15	80 - 120
n-Propylbenzene	20	18	89.5	7.0	15	80 - 126
2-Chlorotoluene	20	18	90.5	3.8	15	75 - 122
4-Chlorotoluene	20	19	96.0	3.6	15	80 - 120
1,3,5-Trimethylbenzene	20	19	96.0	3.6	15	75 - 116
tert-Butylbenzene	20	17	83.5	3.5	19	80 - 120
1,2,4-Trimethylbenzene	20	19	97.0	3.0	14	75 - 120
sec-Butylbenzene	20	18	88.5	6.0	15	75 - 123
1,3-Dichlorobenzene	20	20	102.0	2.4	15	75 - 120
1,4-Dichlorobenzene	20	19	96.0	3.6	15	75 - 120
4-Isopropyltoluene	20	18	88.0	5.5	15	75 - 119
n-Butylbenzene	20	16	80.0	3.7	16	75 - 130
1,2-Dichlorobenzene	20	21	103.0	3.5	15	75 - 120
1,2-Dibromo-3-chloropropane	20	18	88.0	4.7	15	74 - 130
1,2,4-Trichlorobenzene	20	19	95.5	5.1	15	75 - 120
Hexachlorobutadiene	20	23	115.0	3.4	15	75 - 115
Naphthalene	20	19	94.5	0.5	20	75 - 125
1,2,3-Trichlorobenzene	20	20	102.0	2.4	15	75 - 130
Methyl tert-butyl ether	20	20	100.0	3.0	17	76 - 130

Spike Recovery: 0 out of 60 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) AFCEE

COMMENTS: _____

Form III

SW8260C Standards Data

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No. SAS No: SDG No.: 3515733
 Instrument ID: VMS07 Calibration Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 726 End: 1037
 Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID:		RRF0.2 =200PPT.D	RRF0.5 =500PPT.D			
RRF1 =1PPB.D		RRF2 =2PPB.D	RRF5 =5PPB.D			
COMPOUND		RRF0.2	RRF0.5	RRF1	RRF2	RRF5
Dichlorodifluoromethane				0.16139	0.17377	0.15689
Chloromethane	#			0.27389	0.27805	0.23942 #
Vinyl chloride	*		0.27682	0.20342	0.25793	0.23643 *
Bromomethane				0.1828	0.18158	0.16352
Chloroethane				0.23926	0.22466	0.19836
Trichlorofluoromethane				0.3215	0.391	0.35782
1,1-Dichloroethene	*		0.51165	0.41869	0.42894	0.4188 *
Methylene chloride				0.49642	0.47678	0.4735
trans-1,2-Dichloroethene			0.47978	0.3777	0.38461	0.40919
1,1-Dichloroethane	#			0.49293	0.54062	0.53913 #
2,2-Dichloropropane				0.28727	0.36452	0.38236
cis-1,2-Dichloroethene			0.32518	0.28772	0.30565	0.33356
Bromochloromethane				0.28193	0.308	0.32554
Chloroform	*	0.56346	0.64326	0.53014	0.55743	0.58455 *
1,1,1-Trichloroethane				0.36387	0.413	0.44034
Carbon tetrachloride			0.38955	0.2963	0.32145	0.34728
1,1-Dichloropropene				0.29482	0.35127	0.34594
Benzene		1.216	1.098	1.041	1.115	1.188
1,2-Dichloroethane			0.42823	0.43783	0.44931	0.45935
Trichloroethene			0.39145	0.29794	0.30414	0.297
1,2-Dichloropropane	*		0.29539	0.32302	0.30409	0.34428 *
Dibromomethane				0.20557	0.22011	0.23986
Bromodichloromethane		0.4451	0.44447	0.32751	0.39136	0.41383
cis-1,3-Dichloropropene			0.43123	0.31884	0.39473	0.44515
Toluene	*		0.56541	0.49135	0.584	0.6458 *
trans-1,3-Dichloropropene			0.31556	0.24957	0.33132	0.39557
1,1,2-Trichloroethane			0.31145	0.32223	0.29775	0.3359
Tetrachloroethene			0.31372	0.25657	0.31238	0.28097
1,3-Dichloropropane		0.6875	0.62213	0.59544	0.68153	0.74386
Dibromochloromethane		0.35399	0.39063	0.38082	0.39918	0.45373
1,2-Dibromoethane				0.41492	0.42783	0.47051
Chlorobenzene	#		1.147	1.062	1.097	1.122 #
1,1,1,2-Tetrachloroethane			0.3451	0.32201	0.37739	0.40723

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No. SAS No: SDG No.: 3515733
 Instrument ID: VMS07 Calibration Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 726 End: 1037
 Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

COMPOUND	RRF0.2	RRF0.5	RRF1	RRF2	RRF5
Ethylbenzene	*	0.43851	0.40044	0.41968	0.45867 *
m,p-Xylene	0.56054	0.52182	0.44385	0.50961	0.58712
o-Xylene		1.104	1.004	1.126	1.228
Styrene			0.70471	0.82259	0.90064
Bromoform	#		0.25139	0.2678	0.28953 #
Isopropylbenzene	3.193	3.026	2.703	2.763	2.858
Bromobenzene			1.89	1.772	1.897
1,1,2-Tetrachloroethane	# 1.102	1.552	1.408	1.528	1.572 #
1,2,3-Trichloropropane			0.34115	0.35574	0.43121
n-Propylbenzene			3.069	3.473	3.721
2-Chlorotoluene			2.029	2.222	2.246
4-Chlorotoluene			2.419	2.71	2.771
1,3,5-Trimethylbenzene			1.975	2.004	2.376
tert-Butylbenzene			1.981	2.212	1.838
1,2,4-Trimethylbenzene			2.123	2.213	2.538
sec-Butylbenzene			2.315	2.815	2.789
1,3-Dichlorobenzene		1.846	1.601	1.577	1.676
1,4-Dichlorobenzene		2.224	1.929	2.063	1.869
4-Isopropyltoluene			1.854	2.195	2.35
n-Butylbenzene			2.094	2.256	2.319
1,2-Dichlorobenzene		1.867	1.582	1.83	1.795
1,2-Dibromo-3-chloropropane				0.19816	0.23872
1,2,4-Trichlorobenzene			0.65797	0.72406	0.79279
Hexachlorobutadiene		0.34583	0.35484	0.26106	0.27015
Naphthalene			1.155	1.571	1.686
1,2,3-Trichlorobenzene			0.66742	0.79755	0.79737
Methyl tert-butyl ether			0.76406	0.81027	0.87322
=====					
Dibromofluoromethane(SURR)					0.27599
Toluene-d8(SURR)					0.82535
4-Bromofluorobenzene(SURR)					0.89886
1,2-Dichloroethane-d4(SURR)					0.07106

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No. SAS No: SDG No.: 3515733
 Instrument ID: VMS07 Calibration Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 726 End: 1037
 Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

COMPOUND	RRF10	RRF20	RRF40	RRF60	RRF80
Dichlorodifluoromethane	0.16499	0.18673	0.18502	0.18827	0.19704
Chloromethane	# 0.22105	0.22913	0.22956	0.23132	0.22889 #
Vinyl chloride	* 0.23071	0.26356	0.27237	0.27688	0.2719 *
Bromomethane	0.14156	0.19825	0.22712	0.20729	0.19269
Chloroethane	0.20047	0.20408	0.19396	0.19883	0.19306
Trichlorofluoromethane	0.34126	0.40554	0.40489	0.41176	0.41395
1,1-Dichloroethene	* 0.42314	0.45182	0.44643	0.42746	0.43919 *
Methylene chloride	0.4246	0.42793	0.42838	0.39854	0.41127
trans-1,2-Dichloroethene	0.38976	0.41498	0.41158	0.3988	0.40463
1,1-Dichloroethane	# 0.50998	0.53292	0.52992	0.50999	0.52479 #
2,2-Dichloropropane	0.34937	0.39318	0.3934	0.37661	0.39666
cis-1,2-Dichloroethene	0.30418	0.32316	0.32891	0.32065	0.33033
Bromochloromethane	0.29494	0.30529	0.30551	0.29426	0.30131
Chloroform	* 0.52267	0.57622	0.56632	0.54815	0.56796 *
1,1,1-Trichloroethane	0.41584	0.46752	0.45844	0.44493	0.47227
Carbon tetrachloride	0.34825	0.38457	0.38161	0.36661	0.38792
1,1-Dichloropropene	0.34451	0.39448	0.39009	0.38019	0.4002
Benzene	1.099	1.203	1.205	1.143	1.208
1,2-Dichloroethane	0.40473	0.42676	0.43121	0.41402	0.42958
Trichloroethene	0.27448	0.29047	0.29652	0.27924	0.29383
1,2-Dichloropropane	* 0.31298	0.32976	0.33019	0.31434	0.32862 *
Dibromomethane	0.21641	0.22627	0.22645	0.21218	0.22472
Bromodichloromethane	0.37974	0.42082	0.4219	0.41087	0.43531
cis-1,3-Dichloropropene	0.40105	0.44719	0.46728	0.45739	0.48632
Toluene	* 0.62317	0.69339	0.7094	0.68989	0.71814 *
trans-1,3-Dichloropropene	0.35147	0.40281	0.42457	0.42071	0.44958
1,1,2-Trichloroethane	0.28798	0.31573	0.30963	0.2959	0.31252
Tetrachloroethene	0.28885	0.3039	0.29236	0.27906	0.29711
1,3-Dichloropropane	0.64943	0.68455	0.67137	0.64228	0.66512
Dibromochloromethane	0.39949	0.41464	0.419	0.40198	0.43101
1,2-Dibromoethane	0.41913	0.44001	0.43242	0.41878	0.43199
Chlorobenzene	# 1.061	1.073	1.09	1.047	1.077 #
1,1,1,2-Tetrachloroethane	0.37604	0.37827	0.38376	0.37624	0.39043

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No. SAS No: SDG No.: 3515733
 Instrument ID: VMS07 Calibration Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 726 End: 1037
 Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

COMPOUND	RRF10	RRF20	RRF40	RRF60	RRF80
Ethylbenzene	* 0.46285	0.52048	0.52856	0.51924	0.53476 *
m,p-Xylene	0.5767	0.65288	0.6663	0.65161	0.68527
o-Xylene	1.228	1.329	1.386	1.378	1.438
Styrene	0.92628	1.101	1.148	1.137	1.191
Bromoform	# 0.25979	0.28447	0.30013	0.28721	0.30734 #
Isopropylbenzene	2.777	3.135	3.146	3.17	3.204
Bromobenzene	1.73	1.784	1.773	1.72	1.783
1,1,2,2-Tetrachloroethane	# 1.368	1.361	1.277	1.217	1.269 #
1,2,3-Trichloropropane	0.35197	0.36905	0.33856	0.33198	0.33846
n-Propylbenzene	3.678	4.265	4.268	4.19	4.364
2-Chlorotoluene	2.165	2.36	2.331	2.305	2.36
4-Chlorotoluene	2.682	2.881	2.85	2.81	2.906
1,3,5-Trimethylbenzene	2.336	2.665	2.692	2.66	2.789
tert-Butylbenzene	2.186	2.182	2.217	2.241	2.338
1,2,4-Trimethylbenzene	2.573	2.896	2.98	2.898	3.023
sec-Butylbenzene	2.883	3.267	3.311	3.262	3.437
1,3-Dichlorobenzene	1.527	1.633	1.634	1.577	1.662
1,4-Dichlorobenzene	1.724	1.767	1.711	1.666	1.724
4-Isopropyltoluene	2.406	2.797	2.846	2.818	2.988
n-Butylbenzene	2.327	2.812	2.908	2.826	3.015
1,2-Dichlorobenzene	1.571	1.685	1.652	1.55	1.582
1,2-Dibromo-3-chloropropane	0.1874	0.21639	0.20787	0.20456	0.21309
1,2,4-Trichlorobenzene	0.77808	0.89631	0.89905	0.90482	0.96757
Hexachlorobutadiene	0.25594	0.26706	0.24505	0.2419	0.24965
Naphthalene	1.701	2.149	2.377	2.563	2.761
1,2,3-Trichlorobenzene	0.79041	0.91332	0.89367	0.89968	0.96711
Methyl tert-butyl ether	0.75632	0.79255	0.78583	0.75471	0.77028
=====					
Dibromofluoromethane(SURR)	0.28722	0.28904	0.28788	0.27898	
Toluene-d8(SURR)	0.9042	0.90935	0.93428	0.91002	
4-Bromofluorobenzene(SURR)	0.90989	0.9319	0.89815	0.86158	
1,2-Dichloroethane-d4(SURR)	0.06519	0.06514	0.06728	0.06429	

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No. SAS No: SDG No.: 3515733
 Instrument ID: VMS07 Calibration Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 726 End: 1037
 Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

COMPOUND	CURVE	COEFFICIENTS		%RSD OR R^2
		AO	A1	
Dichlorodifluoromethane	AVRG		0.176763032	8.3
Chloromethane	# AVRG		0.241414172	9.1 #
Vinyl chloride	* AVRG		0.254446879	10 *
Bromomethane	2ORDR	0.0420379	3.55698396	0.9962
Chloroethane	AVRG		0.20658613	8
Trichlorofluoromethane	AVRG		0.380964773	9.4
1,1-Dichloroethene	* AVRG		0.44067913	6.6 *
Methylene chloride	AVRG		0.442175419	8
trans-1,2-Dichloroethene	AVRG		0.407892014	7.3
1,1-Dichloroethane	# AVRG		0.522534347	3.2 #
2,2-Dichloropropane	AVRG		0.367922341	9.9
cis-1,2-Dichloroethene	AVRG		0.317706096	4.8
Bromochloromethane	AVRG		0.302099162	4.2
Chloroform	* AVRG		0.566014132	5.9 *
1,1,1-Trichloroethane	AVRG		0.43452595	8.3
Carbon tetrachloride	AVRG		0.358170563	9.1
1,1-Dichloropropene	AVRG		0.362685352	9.8
Benzene	AVRG		1.15158353	5.3
1,2-Dichloroethane	AVRG		0.431223065	3.8
Trichloroethene	AVRG		0.302784224	11.4
1,2-Dichloropropane	* AVRG		0.320297142	4.7 *
Dibromomethane	AVRG		0.2214451	4.7
Bromodichloromethane	AVRG		0.409091705	8.7
cis-1,3-Dichloropropene	AVRG		0.427686219	11.8
Toluene	* AVRG		0.635616064	12.1 *
trans-1,3-Dichloropropene	2ORDR	0.0058561	2.54975019	0.99953
1,1,2-Trichloroethane	AVRG		0.30989767	4.7
Tetrachloroethene	AVRG		0.291657248	6.2
1,3-Dichloropropane	AVRG		0.664321582	6.1
Dibromochloromethane	AVRG		0.404447294	6.8
1,2-Dibromoethane	AVRG		0.431949642	4.1
Chlorobenzene	# AVRG		1.08646533	2.9 #

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No. SAS No: SDG No.: 3515733
 Instrument ID: VMS07 Calibration Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 726 End: 1037
 Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

COMPOUND	CURVE	COEFFICIENTS		%RSD OR R^2
		AO	A1	
1,1,1,2-Tetrachloroethane	AVRG		0.37294258	6.7
Ethylbenzene	* AVRG		0.475909334	10.7 *
m,p-Xylene	AVRG		0.585570504	13.5
o-Xylene	AVRG		1.24687242	11.9
Styrene	2ORDR	0.0146648	0.90738726	0.99956
Bromoform	# AVRG		0.28095818	7 #
Isopropylbenzene	AVRG		2.99737001	6.7
Bromobenzene	AVRG		1.7934128	3.7
1,1,2,2-Tetrachloroethane	# AVRG		1.36536815	11.3 #
1,2,3-Trichloropropane	AVRG		0.357265423	9
n-Propylbenzene	AVRG		3.87842942	12
2-Chlorotoluene	AVRG		2.25230186	5.1
4-Chlorotoluene	AVRG		2.75354396	5.7
1,3,5-Trimethylbenzene	AVRG		2.43713873	13
tert-Butylbenzene	AVRG		2.14929222	7.5
1,2,4-Trimethylbenzene	AVRG		2.6554058	13.2
sec-Butylbenzene	AVRG		3.00999353	12.5
1,3-Dichlorobenzene	AVRG		1.63691859	5.6
1,4-Dichlorobenzene	AVRG		1.85281356	10.2
4-Isopropyltoluene	2ORDR	0.00907	0.371306616	0.99949
n-Butylbenzene	AVRG		2.56966936	13.8
1,2-Dichlorobenzene	AVRG		1.6793197	7.3
1,2-Dibromo-3-chloropropane	AVRG		0.209453906	7.7
1,2,4-Trichlorobenzene	AVRG		0.827581466	12.8
Hexachlorobutadiene	2ORDR	-0.0111136	4.16228171	0.99935
Naphthalene	2ORDR	0.0231442	0.451384386	0.99956
1,2,3-Trichlorobenzene	AVRG		0.840815043	11.4
Methyl tert-butyl ether	AVRG		0.788405093	5
=====				
Dibromofluoromethane(SURR)	AVRG		0.283822681	2.1
Toluene-d8(SURR)	AVRG		0.896639591	4.6
4-Bromofluorobenzene(SURR)	AVRG		0.90007435	2.8
1,2-Dichloroethane-d4(SURR)	AVRG		0.06659035	4.1

7SSC
VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3515733
 Instrument ID: VMS07 Calibration Date: 05/21/15 Time: 1058
 CCV ID: SSC1379756 Lab File ID: SEC71.D Init. Calib. Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO
 Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Dichlorodifluoromethane	0.17676	0.17104	3.2	AVRG	
Chloromethane	# 0.24141	0.22177	8.1	AVRG#	
Vinyl chloride	* 0.25445	0.25539	0.4	AVRG*	
Bromomethane	40	47.4	18.5	2ORD	
Chloroethane	0.20658	0.20517	0.7	AVRG	
Trichlorofluoromethane	0.38096	0.40897	7.4	AVRG	
1,1-Dichloroethene	* 0.44068	0.43028	2.4	AVRG*	
Methylene chloride	0.44218	0.40517	8.4	AVRG	
trans-1,2-Dichloroethene	0.40789	0.38811	4.8	AVRG	
1,1-Dichloroethane	# 0.52254	0.50955	2.5	AVRG#	
2,2-Dichloropropane	0.36792	0.37401	1.7	AVRG	
cis-1,2-Dichloroethene	0.3177	0.31208	1.8	AVRG	
Bromochloromethane	0.3021	0.29364	2.8	AVRG	
Chloroform	* 0.56602	0.56279	0.6	AVRG*	
1,1,1-Trichloroethane	0.43453	0.45508	4.7	AVRG	
Carbon tetrachloride	0.35817	0.38091	6.3	AVRG	
1,1-Dichloropropene	0.36268	0.3791	4.5	AVRG	
Benzene	1.15158	1.179	2.4	AVRG	
1,2-Dichloroethane	0.43122	0.4237	1.7	AVRG	
Trichloroethene	0.30278	0.28377	6.3	AVRG	
1,2-Dichloropropane	* 0.3203	0.32433	1.3	AVRG*	
Dibromomethane	0.22144	0.21896	1.1	AVRG	
Bromodichloromethane	0.40909	0.4199	2.6	AVRG	
cis-1,3-Dichloropropene	0.42768	0.44623	4.3	AVRG	
Toluene	* 0.63562	0.69133	8.8	AVRG*	
trans-1,3-Dichloropropene	40	39.9	0.3	2ORD	
1,1,2-Trichloroethane	0.3099	0.31294	1.0	AVRG	
Tetrachloroethene	0.29166	0.29126	0.1	AVRG	
1,3-Dichloropropane	0.66432	0.63901	3.8	AVRG	
Dibromochloromethane	0.40445	0.39881	1.4	AVRG	
1,2-Dibromoethane	0.43195	0.42537	1.5	AVRG	
Chlorobenzene	# 1.08646	1.043	4.0	AVRG#	
1,1,1,2-Tetrachloroethane	0.37294	0.37432	0.4	AVRG	
Ethylbenzene	* 0.47591	0.51118	7.4	AVRG*	
m,p-Xylene	0.58557	0.64692	10.5	AVRG	
o-Xylene	1.24687	1.317	5.6	AVRG	

7SSC
VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3515733
 Instrument ID: VMS07 Calibration Date: 05/21/15 Time: 1058
 CCV ID: SSC1379756 Lab File ID: SEC71.D Init. Calib. Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO
 Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Styrene	40	39.5	1.2	2ORD	
Bromoform	# 0.28096	0.2814	0.2	AVRG	#
Isopropylbenzene	2.99737	2.913	2.8	AVRG	
Bromobenzene	1.79341	1.602	10.7	AVRG	
1,1,2,2-Tetrachloroethane	# 1.36537	1.186	13.1	AVRG	#
1,2,3-Trichloropropane	0.35726	0.32435	9.2	AVRG	
n-Propylbenzene	3.87843	3.963	2.2	AVRG	
2-Chlorotoluene	2.2523	2.156	4.3	AVRG	
4-Chlorotoluene	2.75354	2.676	2.8	AVRG	
1,3,5-Trimethylbenzene	2.43714	2.515	3.2	AVRG	
tert-Butylbenzene	2.14929	2.102	2.2	AVRG	
1,2,4-Trimethylbenzene	2.6554	2.766	4.2	AVRG	
sec-Butylbenzene	3.00999	3.056	1.5	AVRG	
1,3-Dichlorobenzene	1.63692	1.539	6.0	AVRG	
1,4-Dichlorobenzene	1.85281	1.611	13.1	AVRG	
4-Isopropyltoluene	40	38.4	4.0	2ORD	
n-Butylbenzene	2.56967	2.702	5.1	AVRG	
1,2-Dichlorobenzene	1.67932	1.576	6.2	AVRG	
1,2-Dibromo-3-chloropropane	0.20945	0.20254	3.3	AVRG	
1,2,4-Trichlorobenzene	0.82758	0.80514	2.7	AVRG	
Hexachlorobutadiene	40	38.2	4.5	2ORD	
Naphthalene	40	34.1	14.7	2ORD	
1,2,3-Trichlorobenzene	0.84082	0.80914	3.8	AVRG	
Methyl tert-butyl ether	0.7884	0.73195	7.2	AVRG	
=====					
Dibromofluoromethane(SURR)	0.28382	0.28847	1.6	AVRG	
Toluene-d8(SURR)	0.89664	0.92942	3.7	AVRG	
4-Bromofluorobenzene(SURR)	0.90007	0.85304	5.2	AVRG	
1,2-Dichloroethane-d4(SURR)	0.06659	0.06523	2.0	AVRG	

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3515733
 Instrument ID: VMS07 Calibration Date: 07/07/15 Time: 0737
 CCV ID: CCV1394349 Lab File ID: 40CCV71.D Init. Calib. Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO
 Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Dichlorodifluoromethane	0.17676	0.20897	18.2	AVRG	
Chloromethane	# 0.24141	0.25585	6.0	AVRG#	
Vinyl chloride	* 0.25445	0.27044	6.3	AVRG*	
Bromomethane	40	33.3	16.8	2ORD	
Chloroethane	0.20658	0.21742	5.2	AVRG	
Trichlorofluoromethane	0.38096	0.44818	17.6	AVRG	
1,1-Dichloroethene	* 0.44068	0.37728	14.4	AVRG*	
Methylene chloride	0.44218	0.373	15.6	AVRG	
trans-1,2-Dichloroethene	0.40789	0.37956	6.9	AVRG	
1,1-Dichloroethane	# 0.52254	0.50514	3.3	AVRG#	
2,2-Dichloropropane	0.36792	0.40793	10.9	AVRG	
cis-1,2-Dichloroethene	0.3177	0.34976	10.1	AVRG	
Bromochloromethane	0.3021	0.26745	11.5	AVRG	
Chloroform	* 0.56602	0.59532	5.2	AVRG*	
1,1,1-Trichloroethane	0.43453	0.48268	11.1	AVRG	
Carbon tetrachloride	0.35817	0.42392	18.4	AVRG	
1,1-Dichloropropene	0.36268	0.35354	2.5	AVRG	
Benzene	1.15158	1.202	4.4	AVRG	
1,2-Dichloroethane	0.43122	0.40024	7.2	AVRG	
Trichloroethene	0.30278	0.32503	7.3	AVRG	
1,2-Dichloropropane	* 0.3203	0.31438	1.8	AVRG*	
Dibromomethane	0.22144	0.23222	4.9	AVRG	
Bromodichloromethane	0.40909	0.44509	8.8	AVRG	
cis-1,3-Dichloropropene	0.42768	0.42462	0.7	AVRG	
Toluene	* 0.63562	0.7506	18.1	AVRG*	
trans-1,3-Dichloropropene	40	38.8	3.0	2ORD	
1,1,2-Trichloroethane	0.3099	0.34039	9.8	AVRG	
Tetrachloroethene	0.29166	0.32538	11.6	AVRG	
1,3-Dichloropropane	0.66432	0.56017	15.7	AVRG	
Dibromochloromethane	0.40445	0.43259	7.0	AVRG	
1,2-Dibromoethane	0.43195	0.41846	3.1	AVRG	
Chlorobenzene	# 1.08646	1.099	1.2	AVRG#	
1,1,1,2-Tetrachloroethane	0.37294	0.39809	6.7	AVRG	
Ethylbenzene	* 0.47591	0.49435	3.9	AVRG*	
m,p-Xylene	0.58557	0.64768	10.6	AVRG	
o-Xylene	1.24687	1.232	1.2	AVRG	

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3515733
 Instrument ID: VMS07 CalibrationDate: 07/07/15 Time: 0737
 CCV ID: CCV1394349 Lab File ID: 40CCV71.D Init. Calib. Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO
 Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Styrene	40	38.9	2.8	2ORD	
Bromoform	# 0.28096	0.32663	16.3	AVRG	#
Isopropylbenzene	2.99737	2.894	3.4	AVRG	
Bromobenzene	1.79341	1.532	14.6	AVRG	
1,1,2,2-Tetrachloroethane	# 1.36537	1.181	13.5	AVRG	#
1,2,3-Trichloropropane	0.35726	0.32447	9.2	AVRG	
n-Propylbenzene	3.87843	3.893	0.4	AVRG	
2-Chlorotoluene	2.2523	2.176	3.4	AVRG	
4-Chlorotoluene	2.75354	2.793	1.4	AVRG	
1,3,5-Trimethylbenzene	2.43714	2.597	6.6	AVRG	
tert-Butylbenzene	2.14929	2.052	4.5	AVRG	
1,2,4-Trimethylbenzene	2.6554	2.879	8.4	AVRG	
sec-Butylbenzene	3.00999	2.995	0.5	AVRG	
1,3-Dichlorobenzene	1.63692	1.712	4.6	AVRG	
1,4-Dichlorobenzene	1.85281	1.799	2.9	AVRG	
4-Isopropyltoluene	40	38.9	2.8	2ORD	
n-Butylbenzene	2.56967	2.373	7.7	AVRG	
1,2-Dichlorobenzene	1.67932	1.661	1.1	AVRG	
1,2-Dibromo-3-chloropropane	0.20945	0.16882	19.4	AVRG	
1,2,4-Trichlorobenzene	0.82758	0.89694	8.4	AVRG	
Hexachlorobutadiene	40	47	17.5	2ORD	
Naphthalene	40	40	0.0	2ORD	
1,2,3-Trichlorobenzene	0.84082	0.9147	8.8	AVRG	
Methyl tert-butyl ether	0.7884	0.77925	1.2	AVRG	
=====					
Dibromofluoromethane(SURR)	0.28382	0.29974	5.6	AVRG	
Toluene-d8(SURR)	0.89664	0.9445	5.3	AVRG	
4-Bromofluorobenzene(SURR)	0.90007	0.8392	6.8	AVRG	
1,2-Dichloroethane-d4(SURR)	0.06659	0.06752	1.4	AVRG	

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3515733
 Instrument ID: VMS07 Calibration Date: 07/07/15 Time: 1725
 CCV ID: CCV1394353 Lab File ID: 40CCV72.D Init. Calib. Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO
 Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Dichlorodifluoromethane	0.17676	0.18811	6.4	AVRG	
Chloromethane	# 0.24141	0.2443	1.2	AVRG	#
Vinyl chloride	* 0.25445	0.23926	6.0	AVRG	*
Bromomethane	40	34	15.0	2ORD	
Chloroethane	0.20658	0.18483	10.5	AVRG	
Trichlorofluoromethane	0.38096	0.41882	9.9	AVRG	
1,1-Dichloroethene	* 0.44068	0.40589	7.9	AVRG	*
Methylene chloride	0.44218	0.39174	11.4	AVRG	
trans-1,2-Dichloroethene	0.40789	0.41192	1.0	AVRG	
1,1-Dichloroethane	# 0.52254	0.54381	4.1	AVRG	#
2,2-Dichloropropane	0.36792	0.4181	13.6	AVRG	
cis-1,2-Dichloroethene	0.3177	0.37112	16.8	AVRG	
Bromochloromethane	0.3021	0.28435	5.9	AVRG	
Chloroform	* 0.56602	0.63701	12.5	AVRG	*
1,1,1-Trichloroethane	0.43453	0.52658	21.2	AVRG	
Carbon tetrachloride	0.35817	0.46071	28.6	AVRG	
1,1-Dichloropropene	0.36268	0.37744	4.1	AVRG	
Benzene	1.15158	1.268	10.1	AVRG	
1,2-Dichloroethane	0.43122	0.43437	0.7	AVRG	
Trichloroethene	0.30278	0.3387	11.9	AVRG	
1,2-Dichloropropane	* 0.3203	0.33435	4.4	AVRG	*
Dibromomethane	0.22144	0.25093	13.3	AVRG	
Bromodichloromethane	0.40909	0.47746	16.7	AVRG	
cis-1,3-Dichloropropene	0.42768	0.44038	3.0	AVRG	
Toluene	* 0.63562	0.81293	27.9	AVRG	*
trans-1,3-Dichloropropene	40	41	2.5	2ORD	
1,1,2-Trichloroethane	0.3099	0.37281	20.3	AVRG	
Tetrachloroethene	0.29166	0.26953	7.6	AVRG	
1,3-Dichloropropane	0.66432	0.48336	27.2	AVRG	
Dibromochloromethane	0.40445	0.37252	7.9	AVRG	
1,2-Dibromoethane	0.43195	0.35813	17.1	AVRG	
Chlorobenzene	# 1.08646	0.93886	13.6	AVRG	#
1,1,1,2-Tetrachloroethane	0.37294	0.347	7.0	AVRG	
Ethylbenzene	* 0.47591	0.43306	9.0	AVRG	*
m,p-Xylene	0.58557	0.55966	4.4	AVRG	
o-Xylene	1.24687	1.044	16.3	AVRG	

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: Spectrum Analytical, Inc. Contract: NORTON GW MONITORING Q22015
 Lab Code: PEL Case No.: _____ SAS No: _____ SDG No.: 3515733
 Instrument ID: VMS07 Calibration Date: 07/07/15 Time: 1725
 CCV ID: CCV1394353 Lab File ID: 40CCV72.D Init. Calib. Date Begin: 05/21/15 End: 05/21/15
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO
 Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type	RRF
Styrene	40	33.5	16.2	2ORD	
Bromoform	# 0.28096	0.27494	2.1	AVRG	#
Isopropylbenzene	2.99737	2.964	1.1	AVRG	
Bromobenzene	1.79341	1.631	9.1	AVRG	
1,1,2,2-Tetrachloroethane	# 1.36537	1.19	12.8	AVRG	#
1,2,3-Trichloropropane	0.35726	0.3438	3.8	AVRG	
n-Propylbenzene	3.87843	4.023	3.7	AVRG	
2-Chlorotoluene	2.2523	2.272	0.9	AVRG	
4-Chlorotoluene	2.75354	2.897	5.2	AVRG	
1,3,5-Trimethylbenzene	2.43714	2.695	10.6	AVRG	
tert-Butylbenzene	2.14929	2.123	1.2	AVRG	
1,2,4-Trimethylbenzene	2.6554	2.971	11.9	AVRG	
sec-Butylbenzene	3.00999	3.105	3.2	AVRG	
1,3-Dichlorobenzene	1.63692	1.793	9.5	AVRG	
1,4-Dichlorobenzene	1.85281	1.879	1.4	AVRG	
4-Isopropyltoluene	40	40.4	1.0	2ORD	
n-Butylbenzene	2.56967	2.343	8.8	AVRG	
1,2-Dichlorobenzene	1.67932	1.633	2.8	AVRG	
1,2-Dibromo-3-chloropropane	0.20945	0.17736	15.3	AVRG	
1,2,4-Trichlorobenzene	0.82758	0.84591	2.2	AVRG	
Hexachlorobutadiene	40	45.8	14.5	2ORD	
Naphthalene	40	39	2.5	2ORD	
1,2,3-Trichlorobenzene	0.84082	0.9335	11.0	AVRG	
Methyl tert-butyl ether	0.7884	0.8338	5.8	AVRG	
=====					
Dibromofluoromethane(SURR)	0.28382	0.29024	2.3	AVRG	
Toluene-d8(SURR)	0.89664	0.91476	2.0	AVRG	
4-Bromofluorobenzene(SURR)	0.90007	0.76548	15.0	AVRG	
1,2-Dichloroethane-d4(SURR)	0.06659	0.0657	1.3	AVRG	

Chain of Custody Documentation

15 3515733

CHAIN OF CUSTODY RECORD

Project Name Former Norton AFB Former Norton AFB Former Nor	Container: Preservatives:	1L Poly 4°C	1L Poly 4°C	1L Poly 4°C	1L Amber 4°C	250-mL Poly HNO3, 4°C	1L Amber 4°C	1L Amber 4°C	1L Amber 4°C	40 mL VOA HCl, pH<2, 4°C	40 mL VOA HCl, pH<2, 4°C	1L Amber 4°C	Number of Containers	COMMENTS	
															1L Poly 4°C
Project Number 393091.NO.97.15.05	Filtered:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3		
Sample Manager Andy Cramer	Holding Time:	14	14	14	14	180	7	7	7	14	14	7	3		
Sample Manager Mike Ladeau (714) 227-3324		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3		
Task Order		150.1 (pH)	300.1 (Anions)	E160.1 (TDS)	method varies (extra 1L Ambers)	SW6010B/SW6020A (Total Metals)	SW8081A (Pesticides)	SW8082A (PCBs)	SW8151A (Herbicides)	SW8260B (VOCs)	SW8260B (VOCs) Trip Blank	SW8270C (SVOCs)	3		
Project NORTON GW MONITORING Q22015													3		
Turnaround Time 21 Days													3		
Shipping Date:													3		
COC Number: PEL-Q22015													3		
MW-113-GW-Q22015	Water									X			3		
MW-113-GW-Q22015B	Water									X			3		
MW184-GW-Q22015	Water									X			3		
MW261-GW-Q22015	Water									X			3		
MW274-GW-Q22015	Water									X			3		
MW289-GW-Q22015	Water									X			3		
MW401-GW-Q22015	Water									X			3		
MW402-GW-Q22015	Water									X			3		
MW403-GW-Q22015	Water	X	X	X	X	X	X	X	X	X	X	X	11		
MW404-GW-Q22015	Water	X	X	X	X	X	X	X	X	X	X	X	11		
MW97-GW-Q22015	Water									X			3	-01	
TBNO-Q22015-01	Water										X		3		
													TOTAL NUMBER OF CONTAINERS	60	

Approved by _____ Date/Time _____

Sampled by W.D.Hill 7/1/15 0900

Relinquished by _____

Received by Jeanne Harris 7.3.15 0929

Relinquished by _____

Received by _____

Shipping Details

Method of Shipment: FedEx

On Ice: Yes no

Airbill No. _____

Lab Name: Spectrum Analytical

Lab Phone: (813) 888-9507

Temp: 5.8°C

pH: 8.60

ATTN: Sample Custody and John Heyman

Special Instructions: Please e-mail COC copy to Jeannette Harris/SAC at jharris4@ch2m.com

Report Copy to Mark Fesler (530) 229-3273

AS 3515733

CHAIN OF CUSTODY RECORD

CH2MHILL

Project Name: Former Norton AFB Location: Former Norton AFB Project Number: 393091.N0.97.15.05 Project Manager: Andy Cramer Sample Manager: Mike Ladeau (714) 227-3324 Task Order: Project: NORTON GW MONITORING Q22015 Turnaround Time: 21 Days Shipping Date: COC Number: PEL-TBQ22015-02	Container: 40 mL VOA HCl Preservatives: pH=2, 4°C Filtered: NA Holding Time: 14 SW8260B (VOCs) Trip Blank	DATE: 7/1/15 TIME: 0800 Matrix: Water	COMMENTS:
TBNO-Q22015-02		X	Number of Containers: 3
		TOTAL NUMBER OF CONTAINERS: 3	-02

3515733

Approved by: <u>MP BL</u> Sampled by: Relinquished by: Received by: Relinquished by: Received by:	Signatures: <u>Jamal Smith</u> Date/Time: 7.3.15 0929	Shipping Details: Method of Shipment: FedEx On Ice: <input checked="" type="radio"/> yes <input type="radio"/> no Airbill No: Lab Name: Spectrum Analytical Lab Phone: (813) 888-9507	ATTN: Sample Custody and John Heyman	Special Instructions: Please e-mail COC copy to Jeannette Harris/SAC at jharris4@ch2m.com Report Copy to Mark Fesler (530) 229-3273
--	--	--	---	--

ORIGIN ID: RALA (714) 227-3324
MIKE LADEAU
CH2M HILL
21361 WREN DR
NUEVO, CA 92567
UNITED STATES US

SHIP DATE: 01JUL15
ACTWGT: 25.7 LB
CAD: 6992085/SSF01601
DIMS: 25x13x13 IN
BILL-THIRD PARTY

TO SA LOGIN
SPECTRUM ANALYTICAL
8405 BENJAMIN RD

TAMPA FL 33634

(813) 888-9607
INV: REF: PO: DEPT:



RT 179
FZ B13
1 10:30
A 8546
07.03
SSR
E
15121512191

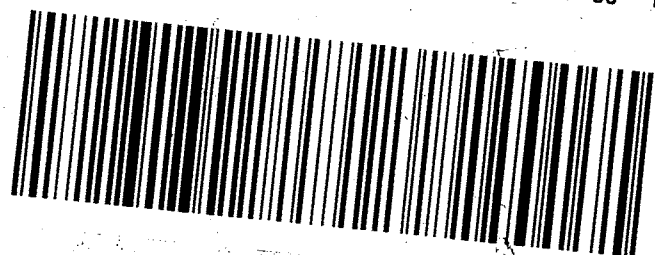
Part # 156297-435
REF: 15121512191

TRK# 7809 1242 8546
0201

THU - 02 JUL 10:30A
PRIORITY OVERNIGHT

XJ TPFA

AHS
33634
FL-US TPA



PH LOG SHEET

WO#: 3515733

Client/Project Norton

Sample Number	Method	Matrix	pH	Containers	Temp	Acid
351573301	8260AFC	W	< 2	(3)		HCl jsmith 03-Jul-15
351573302	8260AFC	W	< 2	(3)		HCl jsmith 03-Jul-15

Sample Receipt Confirmation Sheet

Client Information			
SDG:	3515733	Level:	3
Client:	CH2M Hill	Date Rec'd:	7/3/2015 9:29:00 AM
Profile:	90011		
Project:	Norton AFB	Profile Name:	Norton

Sample Verification			
Samples/Cooler Secure?	Yes	COC Present?	Yes
Temperature of Samples:	5.8	All Samples on COC accounted For?	Yes
Number of Coolers Received:	1	All Samples Rec'd Intact?	Yes
Temp Gun ID:	130544071	Sample Vol. Sufficient For Analysis	Yes
pH Verified?	Yes	Samples Rec'd W/I Hold Time?	Yes
pH WNL?	Yes	Are All Samples to be Analyzed?	Yes
Samples Received By:	Fed-Ex	Correct Sample Containers?	Yes
Tracking Number:	780912428546	COC Comments written on COC?	Yes
Profile Picked By:	JH	Samplers Initials on COC?	Yes
Soil Origin (Domestic/Foreign):		Sample Date/Time Indicated?	Yes
Site Location/Project on COC?	Yes	TAT Requested:	STD
Client Project # on COC?	Yes	Client Requests Verbal Results?	No
Project Mgr. Indicated on COC?	Yes	Client Requests Faxed Results?	No
COC relinquished/Dated by Client?	Yes	Specific Subcontract Indicated?	No
COC Received/Dated by SA?	Yes	Written on Outside Lab Board?	No
Written on Internal COC?	Yes	Radioactivity Check?	No
Lab to Conduct ALL Analyses?	Yes		

Comments

Specific tests noted on COC.

LABEL REVIEW _____

JS

PEER REVIEW: _____

W.H.

Client: CH2M Hill

WONo: 3515733

Profile Name: Norton

Profile #: 90011

MATRIX W

Sample #	Bottle	Parameter	Check	Received	Date
01	001	8260AFC Volatile Organic Compounds	In	jsmith	7/3/2015 11:24:13 AM
01	002	8260AFC Volatile Organic Compounds	In	jsmith	7/3/2015 11:24:13 AM
01	003	8260AFC Volatile Organic Compounds	In	jsmith	7/3/2015 11:24:13 AM
01	003	8260AFC Volatile Organic Compounds	Consumed	Marcell Stephens	7/7/2015 8:37:34 AM
02	001	8260AFC Volatile Organic Compounds	In	jsmith	7/3/2015 11:24:13 AM
02	002	8260AFC Volatile Organic Compounds	In	jsmith	7/3/2015 11:24:13 AM
02	003	8260AFC Volatile Organic Compounds	In	jsmith	7/3/2015 11:24:13 AM
02	003	8260AFC Volatile Organic Compounds	Consumed	Marcell Stephens	7/7/2015 8:37:38 AM

Addendum

Letter of Acceptance

Customer Name: CH2M Hill
Date and Time Received: 07/03/2015 9:29
Date to be Reported: 7/27/2015
Laboratory Submission Number/SDG: 3515733

Project: NORTON GW MONITORING Q22015

Samples: The submission consisted of 2 samples, including QC, with sample identification shown in the attached data tables.

Tests: The Samples will be analyzed for EPA methods: 8260AFC.

Sample Custody/COC discrepancies:

None.

Notes:

None.

Distribution of Report to:

CH2M Hill
Attn: Mark Fesler
(W): 530-229-3273

Note: Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis. Spectrum Analytical letters and reports are for the exclusive use of the client to whom they are addressed. Our letters and reports apply to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar materials.

1

Log-in Report

Level: 3

Total of: 2 analyses on 2 samples (including QC)

07-Jul-15

Report/SDG #: 3515733

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
MW97-GW-Q22015	351573301		W	07/01/2015 8:30	07/03/2015 9:29

Method

8260AFC

Volatile Organic Compounds

8260AFC

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
TBNO-Q22015-02	351573302		W	07/01/2015 8:00	07/03/2015 9:29

Method

8260AFC

Volatile Organic Compounds

8260AFC

End Of Report



Analytical Report for Former Norton AFB - GW MONITORING Q42015

ASL Report #: P3678

Project ID: 393091.NO.97.15.05

Attn: Nick Sjaarda

cc:

Mark Fesler/mark.fesler@ch2m.com

Andy Cramer/SAC

Daniel Chern/SAC

Edata@ch2m.com

Authorized and Released By:

Laboratory Project Manager

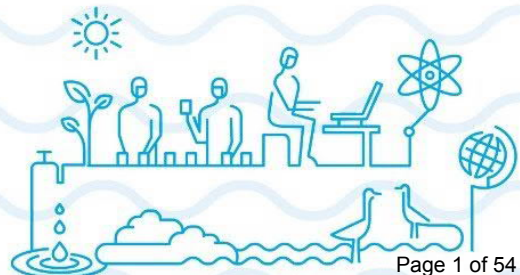
Emily Biboux

(541) 758-0235 ext.23118

December 04, 2015

All analyses performed by CH2M HILL are clearly indicated. Any subcontracted analyses are included as appended reports as received from the subcontracted laboratory. The results included in this report only relate to the samples listed on the following Sample Cross-Reference page. This report shall not be reproduced except in full, without the written approval of the laboratory.

Any unusual difficulties encountered during the analysis of your samples are discussed in the attached case narratives.



ASL Report #: P3678

Sample Receipt Comments

We certify that the test results meet all DoD ELAP requirements.

Sample Cross-Reference

ASL Sample ID	Client Sample ID	Date/Time Collected	Date Received
P367801	MW261-GW-Q42015	11/19/15 12:55	11/20/15
P367802	MW401-GW-Q42015	11/19/15 11:10	11/20/15
P367803	TBNO-Q42015-01	11/19/15 08:00	11/20/15

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Chain of Custody/Shipping Documents.....	52



CH2M HILL
Applied Sciences Laboratory (ASL)
1100 NE Circle Blvd
Suite 300
Corvallis, OR 97330
Tel 541.768.3120
Fax 541.752.0276

DOD Data Qualifiers

- U The analyte was analyzed for, but not detected. The associated numerical value is at or below the LOD.
- J The analyte was positively identified but the associated numerical value is below the LOQ.
- J The analyte was positively identified, the quantitation is an estimation.
- Q The data must be evaluated for usability due to deficiencies in the ability to analyze the sample and meet QC criteria.
- B The analyte was found in an associated blank, as well as in the sample.
- M A matrix effect was present.
- S To be applied to all field screening data.
- T Tentatively identified compounds (using GC/MS).
- UJ The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

ANALYSIS METHOD

SW8260C

CASE NARRATIVE GC/MS VOLATILES ANALYSIS

Lab Name: CH2M HILL ASL

ASL SDG#: P3678

Project: Former Norton AFB

Project #: 393091.NO.97.15.05

With the exceptions noted as flags, footnotes, or detailed in the section below; standard operating procedures were followed in the analysis of the samples and no problems were encountered or anomalies observed.

All laboratory quality control samples were within established control limits, with any exceptions noted below, or in the associated QC summary forms.

Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. For diluted samples, the reporting limits are adjusted for the dilution required.

Calculations are performed before rounding to minimize errors in calculated values.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the section below, or in the sample receipt documentation.

Method(s):
SW8260C: SW5030

Manual Integration(s):
See attached.

Manual Integration Summary Table

<u>Sample Name</u>	<u>Compound</u>	<u>Reason</u>
LEVEL_0.3	Bromomethane	R37
	1,1-Dichloroethene	R37
	1,2-Dibromo-3-chloropropane	R38
	Hexachlorobutadiene	R38
LEVEL_1.0	1,1-Dichloroethene	R37
	trans-1,4-Dichloro-2-butene	R38
LEVEL_5.0	Acrolein	R39
	2-Hexanone	R38
LEVEL_10.0	Acrolein	R38
LEVEL_20.0	Acrolein	R38
LEVEL_100.0	Chlorobenzene-d5	R38

Manual Integration Summary Table

<u>Sample Name</u>	<u>Compound</u>	<u>Reason</u>
P367803	Methylene Chloride	R38

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Base/Command: CASTLE AFB

Prime Contractor: CH2M HILL

Project: Former Norton AFB

Field Sample ID

Lab Sample ID

MW261-GW-Q42015

P367801

MW401-GW-Q42015

P367802

TBNO-Q42015-01

P367803

Comments:

See attached narrative

SAMPLE DATA SUMMARY

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: SW8260C Preparatory Method: SW5030 SDG #: P3678
 Lab Name: CH2M HILL ASL Contract #: FA4890-06-D-0007
 Field Sample ID: MW261-GW-Q42015 Lab Sample ID: P367801 Matrix: WATER
 % Solids: 0 Sample Description: MW261-GW-Q42015
 Date Received: 20 Nov 15 Date Prepared: 23 Nov 15 Date Analyzed: 23 Nov 15
 Concentration Units: ug/L Sample Volume: 5 ML

Analyte	DL	RL	Result	Dilution	Confirm	Qualifier
Dichlorodifluoromethane	0.15	0.5	0.15	1		U
Chloromethane	0.15	2.0	0.15	1		U
Vinyl Chloride	0.15	0.5	0.15	1		U
Bromomethane	0.20	1.0	0.20	1		U
Chloroethane	0.15	0.5	0.15	1		U
Trichlorofluoromethane	0.15	1.0	0.15	1		U
1,1-DCE	0.15	1.0	0.15	1		U
Methylene Chloride	0.15	2.0	0.15	1		U
trans-1,2-DCE	0.15	0.5	0.15	1		U
MTBE (Methyl tert-Butyl Ether)	0.15	0.5	0.15	1		U
1,1-DCA	0.15	0.5	0.15	1		U
cis-1,2-DCE	0.15	0.5	0.15	1		U
Bromochloromethane	0.15	1.0	0.15	1		U
Chloroform	0.15	0.5	0.15	1		U
2,2-Dichloropropane	0.15	1.0	0.15	1		U
1,2-DCA	0.15	0.5	0.15	1		U
1,1,1-TCA	0.15	1.0	0.15	1		U
1,1-Dichloropropene	0.15	1.0	0.15	1		U
Carbon Tetrachloride	0.15	0.5	0.15	1		U
Benzene	0.15	0.5	0.15	1		U
Dibromomethane	0.15	1.0	0.15	1		U
1,2-Dichloropropane	0.15	0.5	0.15	1		U
TCE	0.15	0.5	0.15	1		U
Bromodichloromethane	0.15	1.0	0.15	1		U
cis-1,3-Dichloropropene	0.15	0.5	0.15	1		U
trans-1,3-Dichloropropene	0.15	0.5	0.15	1		U
1,1,2-TCA	0.15	1.0	0.15	1		U
Toluene	0.15	0.5	0.15	1		U
1,3-Dichloropropane	0.15	1.0	0.15	1		U
Dibromochloromethane	0.15	1.0	0.15	1		U
1,2-EDB	0.15	1.0	0.15	1		U
Tetrachloroethylene	0.15	0.5	0.15	1		U
1,1,1,2-Tetrachloroethane	0.15	1.0	0.15	1		U
Chlorobenzene	0.15	0.5	0.15	1		U

*Surrogate Recoveries are reported in Appendix O-A
 Internal Standards are reported in Appendix O-C*

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: SW8260C Preparatory Method: SW5030 SDG #: P3678
 Lab Name: CH2M HILL ASL Contract #: FA4890-06-D-0007
 Field Sample ID: MW261-GW-Q42015 Lab Sample ID: P367801 Matrix: WATER
 % Solids: 0 Sample Description: MW261-GW-Q42015
 Date Received: 20 Nov 15 Date Prepared: 23 Nov 15 Date Analyzed: 23 Nov 15
 Concentration Units: ug/L Sample Volume: 5 ML

Analyte	DL	RL	Result	Dilution	Confirm	Qualifier
Ethylbenzene	0.15	0.5	0.15	1		U
m,p-Xylene	0.30	1.0	0.30	1		U
Bromoform	0.15	1.0	0.15	1		U
Styrene	0.15	1.0	0.15	1		U
o-Xylene	0.15	0.5	0.15	1		U
1,1,2,2-Tetrachloroethane	0.15	1.0	0.15	1		U
1,2,3-Trichloropropane	0.15	1.0	0.15	1		U
Isopropylbenzene	0.15	1.0	0.15	1		U
Bromobenzene	0.15	1.0	0.15	1		U
n-Propylbenzene	0.15	1.0	0.15	1		U
2-Chlorotoluene	0.15	1.0	0.15	1		U
4-Chlorotoluene	0.15	1.0	0.15	1		U
1,3,5-Trimethylbenzene	0.15	1.0	0.15	1		U
tert-Butylbenzene	0.15	1.0	0.15	1		U
1,2,4-Trimethylbenzene	0.15	1.0	0.15	1		U
sec-Butylbenzene	0.15	1.0	0.15	1		U
1,3-DCB	0.15	1.0	0.15	1		U
1,4-DCB	0.15	1.0	0.15	1		U
p-Isopropyltoluene	0.15	1.0	0.15	1		U
1,2-DCB	0.15	1.0	0.15	1		U
n-Butylbenzene	0.15	1.0	0.15	1		U
1,2-Dibromo-3-chloropropane	0.15	0.5	0.15	1		U
1,2,4-Trichlorobenzene	0.15	0.5	0.15	1		U
Naphthalene	0.15	1.0	0.15	1		U
Hexachlorobutadiene	0.15	1.0	0.15	1		U
1,2,3-Trichlorobenzene	0.15	1.0	0.15	1		U

*Surrogate Recoveries are reported in Appendix O-A
Internal Standards are reported in Appendix O-C*

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: SW8260C Preparatory Method: SW5030 SDG #: P3678
 Lab Name: CH2M HILL ASL Contract #: FA4890-06-D-0007
 Field Sample ID: MW261-GW-Q42015 Lab Sample ID: P367801 Matrix: WATER
 % Solids: 0 Sample Description: MW261-GW-Q42015
 Date Received: 20 Nov 15 Date Prepared: 23 Nov 15 Date Analyzed: 23 Nov 15
 Concentration Units: ug/L Sample Volume: 5 ML

Analyte	DL	RL	Result	Dilution	Confirm	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
Dibromofluoromethane	102	83-128	
1,2-DCA-d4	117	80-123	
Toluene-d8	91	85-116	
4-Bromofluorobenzene	93	82-121	

Internal Standard	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

*Surrogate Recoveries are reported in Appendix O-A
Internal Standards are reported in Appendix O-C*

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: SW8260C Preparatory Method: SW5030 SDG #: P3678
 Lab Name: CH2M HILL ASL Contract #: FA4890-06-D-0007
 Field Sample ID: MW401-GW-Q42015 Lab Sample ID: P367802 Matrix: WATER
 % Solids: 0 Sample Description: MW401-GW-Q42015
 Date Received: 20 Nov 15 Date Prepared: 23 Nov 15 Date Analyzed: 23 Nov 15
 Concentration Units: ug/L Sample Volume: 5 ML

Analyte	DL	RL	Result	Dilution	Confirm	Qualifier
Dichlorodifluoromethane	0.15	0.5	0.15	1		U
Chloromethane	0.15	2.0	0.84	1		J
Vinyl Chloride	0.15	0.5	0.15	1		U
Bromomethane	0.20	1.0	0.20	1		U
Chloroethane	0.15	0.5	0.15	1		U
Trichlorofluoromethane	0.15	1.0	0.15	1		U
1,1-DCE	0.15	1.0	0.15	1		U
Methylene Chloride	0.15	2.0	0.15	1		U
trans-1,2-DCE	0.15	0.5	0.15	1		U
MTBE (Methyl tert-Butyl Ether)	0.15	0.5	0.15	1		U
1,1-DCA	0.15	0.5	0.15	1		U
cis-1,2-DCE	0.15	0.5	0.15	1		U
Bromochloromethane	0.15	1.0	0.15	1		U
Chloroform	0.15	0.5	0.15	1		U
2,2-Dichloropropane	0.15	1.0	0.15	1		U
1,2-DCA	0.15	0.5	0.15	1		U
1,1,1-TCA	0.15	1.0	0.15	1		U
1,1-Dichloropropene	0.15	1.0	0.15	1		U
Carbon Tetrachloride	0.15	0.5	0.15	1		U
Benzene	0.15	0.5	0.15	1		U
Dibromomethane	0.15	1.0	0.15	1		U
1,2-Dichloropropane	0.15	0.5	0.15	1		U
TCE	0.15	0.5	0.95	1		
Bromodichloromethane	0.15	1.0	0.15	1		U
cis-1,3-Dichloropropene	0.15	0.5	0.15	1		U
trans-1,3-Dichloropropene	0.15	0.5	0.15	1		U
1,1,2-TCA	0.15	1.0	0.15	1		U
Toluene	0.15	0.5	0.15	1		U
1,3-Dichloropropane	0.15	1.0	0.15	1		U
Dibromochloromethane	0.15	1.0	0.15	1		U
1,2-EDB	0.15	1.0	0.15	1		U
Tetrachloroethylene	0.15	0.5	0.15	1		U
1,1,1,2-Tetrachloroethane	0.15	1.0	0.15	1		U
Chlorobenzene	0.15	0.5	0.15	1		U

*Surrogate Recoveries are reported in Appendix O-A
Internal Standards are reported in Appendix O-C*

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: SW8260C Preparatory Method: SW5030 SDG #: P3678
 Lab Name: CH2M HILL ASL Contract #: FA4890-06-D-0007
 Field Sample ID: MW401-GW-Q42015 Lab Sample ID: P367802 Matrix: WATER
 % Solids: 0 Sample Description: MW401-GW-Q42015
 Date Received: 20 Nov 15 Date Prepared: 23 Nov 15 Date Analyzed: 23 Nov 15
 Concentration Units: ug/L Sample Volume: 5 ML

Analyte	DL	RL	Result	Dilution	Confirm	Qualifier
Ethylbenzene	0.15	0.5	0.15	1		U
m,p-Xylene	0.30	1.0	0.30	1		U
Bromoform	0.15	1.0	0.15	1		U
Styrene	0.15	1.0	0.15	1		U
o-Xylene	0.15	0.5	0.15	1		U
1,1,2,2-Tetrachloroethane	0.15	1.0	0.15	1		U
1,2,3-Trichloropropane	0.15	1.0	0.15	1		U
Isopropylbenzene	0.15	1.0	0.15	1		U
Bromobenzene	0.15	1.0	0.15	1		U
n-Propylbenzene	0.15	1.0	0.15	1		U
2-Chlorotoluene	0.15	1.0	0.15	1		U
4-Chlorotoluene	0.15	1.0	0.15	1		U
1,3,5-Trimethylbenzene	0.15	1.0	0.15	1		U
tert-Butylbenzene	0.15	1.0	0.15	1		U
1,2,4-Trimethylbenzene	0.15	1.0	0.15	1		U
sec-Butylbenzene	0.15	1.0	0.15	1		U
1,3-DCB	0.15	1.0	0.15	1		U
1,4-DCB	0.15	1.0	0.15	1		U
p-Isopropyltoluene	0.15	1.0	0.15	1		U
1,2-DCB	0.15	1.0	0.15	1		U
n-Butylbenzene	0.15	1.0	0.15	1		U
1,2-Dibromo-3-chloropropane	0.15	0.5	0.15	1		U
1,2,4-Trichlorobenzene	0.15	0.5	0.15	1		U
Naphthalene	0.15	1.0	0.15	1		U
Hexachlorobutadiene	0.15	1.0	0.15	1		U
1,2,3-Trichlorobenzene	0.15	1.0	0.15	1		U

*Surrogate Recoveries are reported in Appendix O-A
Internal Standards are reported in Appendix O-C*

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: SW8260C Preparatory Method: SW5030 SDG #: P3678
 Lab Name: CH2M HILL ASL Contract #: FA4890-06-D-0007
 Field Sample ID: MW401-GW-Q42015 Lab Sample ID: P367802 Matrix: WATER
 % Solids: 0 Sample Description: MW401-GW-Q42015
 Date Received: 20 Nov 15 Date Prepared: 23 Nov 15 Date Analyzed: 23 Nov 15
 Concentration Units: ug/L Sample Volume: 5 ML

Analyte	DL	RL	Result	Dilution	Confirm	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
Dibromofluoromethane	101	83-128	
1,2-DCA-d4	116	80-123	
Toluene-d8	90	85-116	
4-Bromofluorobenzene	93	82-121	

Internal Standard	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

*Surrogate Recoveries are reported in Appendix O-A
 Internal Standards are reported in Appendix O-C*

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: SW8260C

Preparatory Method: SW5030

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Field Sample ID: TBNO-Q42015-01

Lab Sample ID: P367803

Matrix: WATER

% Solids: 0

Sample Description: TBNO-Q42015-01

Date Received: 20 Nov 15

Date Prepared: 23 Nov 15

Date Analyzed: 23 Nov 15

Concentration Units: ug/L

Sample Volume: 5 ML

Analyte	DL	RL	Result	Dilution	Confirm	Qualifier
Dichlorodifluoromethane	0.15	0.5	0.15	1		U
Chloromethane	0.15	2.0	0.15	1		U
Vinyl Chloride	0.15	0.5	0.15	1		U
Bromomethane	0.20	1.0	0.20	1		U
Chloroethane	0.15	0.5	0.15	1		U
Trichlorofluoromethane	0.15	1.0	0.15	1		U
1,1-DCE	0.15	1.0	0.15	1		U
Methylene Chloride	0.15	2.0	0.25	1		J
trans-1,2-DCE	0.15	0.5	0.15	1		U
MTBE (Methyl tert-Butyl Ether)	0.15	0.5	0.15	1		U
1,1-DCA	0.15	0.5	0.15	1		U
cis-1,2-DCE	0.15	0.5	0.15	1		U
Bromochloromethane	0.15	1.0	0.15	1		U
Chloroform	0.15	0.5	0.15	1		U
2,2-Dichloropropane	0.15	1.0	0.15	1		U
1,2-DCA	0.15	0.5	0.15	1		U
1,1,1-TCA	0.15	1.0	0.15	1		U
1,1-Dichloropropene	0.15	1.0	0.15	1		U
Carbon Tetrachloride	0.15	0.5	0.15	1		U
Benzene	0.15	0.5	0.15	1		U
Dibromomethane	0.15	1.0	0.15	1		U
1,2-Dichloropropane	0.15	0.5	0.15	1		U
TCE	0.15	0.5	0.15	1		U
Bromodichloromethane	0.15	1.0	0.15	1		U
cis-1,3-Dichloropropene	0.15	0.5	0.15	1		U
trans-1,3-Dichloropropene	0.15	0.5	0.15	1		U
1,1,2-TCA	0.15	1.0	0.15	1		U
Toluene	0.15	0.5	0.15	1		U
1,3-Dichloropropane	0.15	1.0	0.15	1		U
Dibromochloromethane	0.15	1.0	0.15	1		U
1,2-EDB	0.15	1.0	0.15	1		U
Tetrachloroethylene	0.15	0.5	0.15	1		U
1,1,1,2-Tetrachloroethane	0.15	1.0	0.15	1		U
Chlorobenzene	0.15	0.5	0.15	1		U

*Surrogate Recoveries are reported in Appendix O-A
Internal Standards are reported in Appendix O-C*

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: SW8260C Preparatory Method: SW5030 SDG #: P3678
 Lab Name: CH2M HILL ASL Contract #: FA4890-06-D-0007
 Field Sample ID: TBNO-Q42015-01 Lab Sample ID: P367803 Matrix: WATER
 % Solids: 0 Sample Description: TBNO-Q42015-01
 Date Received: 20 Nov 15 Date Prepared: 23 Nov 15 Date Analyzed: 23 Nov 15
 Concentration Units: ug/L Sample Volume: 5 ML

Analyte	DL	RL	Result	Dilution	Confirm	Qualifier
Ethylbenzene	0.15	0.5	0.15	1		U
m,p-Xylene	0.30	1.0	0.30	1		U
Bromoform	0.15	1.0	0.15	1		U
Styrene	0.15	1.0	0.15	1		U
o-Xylene	0.15	0.5	0.15	1		U
1,1,2,2-Tetrachloroethane	0.15	1.0	0.15	1		U
1,2,3-Trichloropropane	0.15	1.0	0.15	1		U
Isopropylbenzene	0.15	1.0	0.15	1		U
Bromobenzene	0.15	1.0	0.15	1		U
n-Propylbenzene	0.15	1.0	0.15	1		U
2-Chlorotoluene	0.15	1.0	0.15	1		U
4-Chlorotoluene	0.15	1.0	0.15	1		U
1,3,5-Trimethylbenzene	0.15	1.0	0.15	1		U
tert-Butylbenzene	0.15	1.0	0.15	1		U
1,2,4-Trimethylbenzene	0.15	1.0	0.15	1		U
sec-Butylbenzene	0.15	1.0	0.15	1		U
1,3-DCB	0.15	1.0	0.15	1		U
1,4-DCB	0.15	1.0	0.15	1		U
p-Isopropyltoluene	0.15	1.0	0.15	1		U
1,2-DCB	0.15	1.0	0.15	1		U
n-Butylbenzene	0.15	1.0	0.15	1		U
1,2-Dibromo-3-chloropropane	0.15	0.5	0.15	1		U
1,2,4-Trichlorobenzene	0.15	0.5	0.15	1		U
Naphthalene	0.15	1.0	0.15	1		U
Hexachlorobutadiene	0.15	1.0	0.15	1		U
1,2,3-Trichlorobenzene	0.15	1.0	0.15	1		U

*Surrogate Recoveries are reported in Appendix O-A
Internal Standards are reported in Appendix O-C*

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: SW8260C Preparatory Method: SW5030 SDG #: P3678
 Lab Name: CH2M HILL ASL Contract #: FA4890-06-D-0007
 Field Sample ID: TBNO-Q42015-01 Lab Sample ID: P367803 Matrix: WATER
 % Solids: 0 Sample Description: TBNO-Q42015-01
 Date Received: 20 Nov 15 Date Prepared: 23 Nov 15 Date Analyzed: 23 Nov 15
 Concentration Units: ug/L Sample Volume: 5 ML

Analyte	DL	RL	Result	Dilution	Confirm	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
Dibromofluoromethane	98	83-128	
1,2-DCA-d4	113	80-123	
Toluene-d8	92	85-116	
4-Bromofluorobenzene	93	82-121	

Internal Standard	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

*Surrogate Recoveries are reported in Appendix O-A
 Internal Standards are reported in Appendix O-C*

QC SUMMARY

AFCEE
ORGANIC ANALYSES DATA SHEET 3 (Part 1)
INITIAL MULTIPOINT CALIBRATION-GC/MS

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Date of Initial Calibration: 11 Nov 15

Initial Calibration ID: 111115E1

Concentration Units: ug/L

GC Column ID: DB-VRX

Initial Calibration Sample IDs:	LEVEL-1	LEVEL-2	LEVEL-3	LEVEL-4	LEVEL-5	LEVEL-6
Initial Calibration File IDs:	LEVEL_1.D	LEVEL_2.D	LEVEL_3.D	LEVEL_4.D	LEVEL_5.D	LEVEL_6.D

Analyte	Std	RF	Std	RF	Std	RF	Std	RF	Std	RF	Std	RF
	1	1	2	2	3	3	4	4	5	5	6	6
Fluorobenzene	10	1.000	10	1.000	10	1.000	10	1.000	10	1.000	10	1.000
Dichlorodifluoromethane	.3	0.446	1	0.433	5	0.534	10	0.500	20	0.497	50	0.522
Chloromethane*	.3	0.382	1	0.363	5	0.317	10	0.296	20	0.304	50	0.311
Vinyl Chloride#	.3	0.339	1	0.346	5	0.318	10	0.298	20	0.297	50	0.320
Bromomethane	.3	0.238	1	0.233	5	0.203	10	0.193	20	0.200	50	0.230
Chloroethane	.3	0.194	1	0.186	5	0.206	10	0.187	20	0.191	50	0.156
Trichlorofluoromethane	.3	0.691	1	0.626	5	0.607	10	0.585	20	0.587	50	0.621
1,1-DCE#	.3	0.312	1	0.262	5	0.275	10	0.269	20	0.265	50	0.245
Methylene Chloride	.3	0.396	1	0.370	5	0.366	10	0.357	20	0.358	50	0.348
trans-1,2-DCE	.3	0.416	1	0.417	5	0.410	10	0.400	20	0.394	50	0.386
MTBE (Methyl tert-Butyl Ether)	.3	0.793	1	0.737	5	0.755	10	0.773	20	0.786	50	0.823
1,1-DCA*	.3	0.503	1	0.481	5	0.502	10	0.481	20	0.478	50	0.476
cis-1,2-DCE	.3	0.418	1	0.386	5	0.401	10	0.384	20	0.379	50	0.384
Bromochloromethane	.3	0.211	1	0.211	5	0.211	10	0.202	20	0.198	50	0.203
Chloroform#	.3	0.581	1	0.549	5	0.542	10	0.526	20	0.520	50	0.531
2,2-Dichloropropane	.3	0.434	1	0.447	5	0.478	10	0.453	20	0.455	50	0.482
Dibromofluoromethane			1	0.335	5	0.290	10	0.294	20	0.287	50	0.304
1,2-DCA-d4			1	0.400	5	0.334	10	0.341	20	0.337	50	0.355
1,2-DCA	.3	0.416	1	0.433	5	0.418	10	0.405	20	0.403	50	0.412
1,1,1-TCA	.3	0.501	1	0.492	5	0.523	10	0.505	20	0.511	50	0.528
1,1-Dichloropropene	.3	0.409	1	0.391	5	0.396	10	0.387	20	0.393	50	0.394
Carbon Tetrachloride	.3	0.461	1	0.451	5	0.462	10	0.450	20	0.457	50	0.472
Benzene	.3	1.086	1	1.078	5	1.082	10	1.053	20	1.030	50	1.024
Dibromomethane	.3	0.224	1	0.198	5	0.190	10	0.184	20	0.181	50	0.186
1,2-Dichloropropane#	.3	0.268	1	0.259	5	0.255	10	0.246	20	0.245	50	0.248
TCE	.3	0.316	1	0.300	5	0.309	10	0.296	20	0.286	50	0.290
Bromodichloromethane	.3	0.431	1	0.416	5	0.410	10	0.397	20	0.400	50	0.414
cis-1,3-Dichloropropene	.3	0.416	1	0.391	5	0.426	10	0.431	20	0.436	50	0.459
trans-1,3-Dichloropropene	.3	0.418	1	0.403	5	0.416	10	0.416	20	0.434	50	0.458
1,1,2-TCA	.3	0.224	1	0.224	5	0.212	10	0.208	20	0.205	50	0.212

* SPCCs # CCCs

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 3 (Part 1)
INITIAL MULTIPOINT CALIBRATION-GC/MS

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Date of Initial Calibration: 11 Nov 15

Initial Calibration ID: 111115E1

Concentration Units: ug/L

GC Column ID: DB-VRX

Initial Calibration Sample IDs:	LEVEL-1	LEVEL-2	LEVEL-3	LEVEL-4	LEVEL-5	LEVEL-6
Initial Calibration File IDs:	LEVEL_1.D	LEVEL_2.D	LEVEL_3.D	LEVEL_4.D	LEVEL_5.D	LEVEL_6.D

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6
Toluene-d8			1	1.074	5	0.941	10	0.973	20	0.974	50	1.014
Toluene#	.3	1.110	1	1.144	5	1.167	10	1.153	20	1.138	50	1.151
Chlorobenzene-d5	10	1.000	10	1.000	10	1.000	10	1.000	10	1.000	10	1.000
1,3-Dichloropropane	.3	0.522	1	0.563	5	0.562	10	0.547	20	0.550	50	0.561
Dibromochloromethane	.3	0.354	1	0.394	5	0.409	10	0.407	20	0.423	50	0.448
1,2-EDB	.3	0.392	1	0.361	5	0.361	10	0.356	20	0.368	50	0.377
Tetrachloroethylene	.3	0.360	1	0.373	5	0.384	10	0.372	20	0.382	50	0.384
1,1,1,2-Tetrachloroethane	.3	0.387	1	0.394	5	0.392	10	0.382	20	0.391	50	0.411
Chlorobenzene*	.3	1.089	1	1.069	5	1.069	10	1.037	20	1.043	50	1.061
Ethylbenzene#	.3	1.587	1	1.568	5	1.672	10	1.647	20	1.690	50	1.747
m,p-Xylene	.6	1.161	2	1.212	10	1.348	20	1.290	40	1.331	100	1.346
Bromoform*	.3	0.223	1	0.233	5	0.252	10	0.249	20	0.268	50	0.286
Styrene	.3	0.843	1	0.876	5	1.010	10	1.032	20	1.084	50	1.116
o-Xylene	.3	1.295	1	1.347	5	1.418	10	1.373	20	1.400	50	1.434
1,1,1,2-Tetrachloroethane*	.3	0.479	1	0.462	5	0.475	10	0.445	20	0.449	50	0.460
1,4-Dichlorobenzene-d4	10	1.000	10	1.000	10	1.000	10	1.000	10	1.000	10	1.000
1,2,3-Trichloropropane	.3	0.276	1	0.314	5	0.296	10	0.293	20	0.278	50	0.289
Isopropylbenzene	.3	2.729	1	2.849	5	3.079	10	3.056	20	3.049	50	3.073
4-Bromofluorobenzene			1	0.839	5	0.769	10	0.779	20	0.774	50	0.797
Bromobenzene	.3	1.335	1	1.302	5	1.361	10	1.304	20	1.285	50	1.326
n-Propylbenzene	.3	3.206	1	3.002	5	3.364	10	3.289	20	3.264	50	3.312
2-Chlorotoluene	.3	2.318	1	2.159	5	2.405	10	2.314	20	2.296	50	2.315
4-Chlorotoluene	.3	2.310	1	2.244	5	2.463	10	2.405	20	2.361	50	2.417
1,3,5-Trimethylbenzene	.3	2.239	1	2.221	5	2.564	10	2.519	20	2.511	50	2.575
tert-Butylbenzene	.3	1.809	1	1.708	5	1.940	10	1.891	20	1.913	50	1.959
1,2,4-Trimethylbenzene	.3	2.390	1	2.355	5	2.688	10	2.619	20	2.621	50	2.693
sec-Butylbenzene	.3	2.509	1	2.398	5	2.737	10	2.669	20	2.625	50	2.687
1,3-DCB	.3	1.581	1	1.576	5	1.627	10	1.570	20	1.531	50	1.576
1,4-DCB	.3	1.685	1	1.639	5	1.694	10	1.595	20	1.578	50	1.574
p-Isopropyltoluene	.3	2.437	1	2.185	5	2.424	10	2.328	20	2.338	50	2.371

* SPCCs # CCCs

Comments:

AFCEE
 ORGANIC ANALYSES DATA SHEET 3 (Part 1)
 INITIAL MULTIPOINT CALIBRATION-GC/MS

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Date of Initial Calibration: 11 Nov 15

Initial Calibration ID: 111115E1

Concentration Units: ug/L

GC Column ID: DB-VRX

Initial Calibration Sample IDs:	LEVEL-1	LEVEL-2	LEVEL-3	LEVEL-4	LEVEL-5	LEVEL-6
Initial Calibration File IDs:	LEVEL_1.D	LEVEL_2.D	LEVEL_3.D	LEVEL_4.D	LEVEL_5.D	LEVEL_6.D

Analyte	LEVEL-1		LEVEL-2		LEVEL-3		LEVEL-4		LEVEL-5		LEVEL-6	
	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6
1,2-DCB	.3	1.448	1	1.511	5	1.602	10	1.542	20	1.523	50	1.550
n-Butylbenzene	.3	1.689	1	1.790	5	1.955	10	1.928	20	1.897	50	1.972
1,2-Dibromo-3-chloropropane	.3	0.291	1	0.213	5	0.207	10	0.204	20	0.207	50	0.219
1,2,4-Trichlorobenzene	.3	1.055	1	0.975	5	0.997	10	0.940	20	0.950	50	0.945
Naphthalene	.3	3.134	1	3.192	5	3.381	10	3.264	20	3.253	50	3.288
Hexachlorobutadiene	.3	0.396	1	0.347	5	0.359	10	0.338	20	0.325	50	0.330
1,2,3-Trichlorobenzene	.3	0.945	1	0.941	5	0.963	10	0.929	20	0.912	50	0.893

* SPCCs # CCCs

Comments: _____

AFCEE
ORGANIC ANALYSES DATA SHEET 3 (Part 1)
INITIAL MULTIPOINT CALIBRATION-GC/MS

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Date of Initial Calibration: 11 Nov 15

Initial Calibration ID: 111115E1

Concentration Units: ug/L

GC Column ID: DB-VRX

Initial Calibration Sample IDs: LEVEL-7

Initial Calibration File IDs: LEVEL_7.D

Analyte	Std 7	RF 7	Std 8	RF 8	Std 9	RF 9							
Fluorobenzene	10	1.000											
Dichlorodifluoromethane	100	0.471											
Chloromethane*	100	0.289											
Vinyl Chloride#	100	0.302											
Bromomethane	100	0.217											
Chloroethane	100	0.176											
Trichlorofluoromethane	100	0.589											
1,1-DCE#	100	0.231											
Methylene Chloride	100	0.331											
trans-1,2-DCE	100	0.371											
MTBE (Methyl tert-Butyl Ether)	100	0.767											
1,1-DCA*	100	0.453											
cis-1,2-DCE	100	0.371											
Bromochloromethane	100	0.192											
Chloroform#	100	0.510											
2,2-Dichloropropane	100	0.464											
Dibromofluoromethane													
1,2-DCA-d4													
1,2-DCA	100	0.397											
1,1,1-TCA	100	0.504											
1,1-Dichloropropene	100	0.383											
Carbon Tetrachloride	100	0.454											
Benzene	100	0.968											
Dibromomethane	100	0.179											
1,2-Dichloropropane#	100	0.239											
TCE	100	0.281											
Bromodichloromethane	100	0.410											
cis-1,3-Dichloropropene	100	0.444											
trans-1,3-Dichloropropene	100	0.449											
1,1,2-TCA	100	0.204											

* SPCCs # CCCs

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 3 (Part 1)
INITIAL MULTIPOINT CALIBRATION-GC/MS

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Date of Initial Calibration: 11 Nov 15

Initial Calibration ID: 111115E1

Concentration Units: ug/L

GC Column ID: DB-VRX

Initial Calibration Sample IDs: LEVEL-7

Initial Calibration File IDs: LEVEL_7.D

Analyte	Std 7	RF 7	Std 8	RF 8	Std 9	RF 9						
Toluene-d8												
Toluene#	100	1.082										
Chlorobenzene-d5	10	1.000										
1,3-Dichloropropane	100	0.553										
Dibromochloromethane	100	0.447										
1,2-EDB	100	0.373										
Tetrachloroethylene	100	0.378										
1,1,1,2-Tetrachloroethane	100	0.406										
Chlorobenzene*	100	1.022										
Ethylbenzene#	100	1.708										
m,p-Xylene	200	1.304										
Bromoform*	100	0.294										
Styrene	100	1.109										
o-Xylene	100	1.395										
1,1,1,2,2-Tetrachloroethane*	100	0.444										
1,4-Dichlorobenzene-d4	10	1.000										
1,2,3-Trichloropropane	100	0.282										
Isopropylbenzene	100	3.024										
4-Bromofluorobenzene												
Bromobenzene	100	1.307										
n-Propylbenzene	100	3.258										
2-Chlorotoluene	100	2.297										
4-Chlorotoluene	100	2.399										
1,3,5-Trimethylbenzene	100	2.550										
tert-Butylbenzene	100	1.974										
1,2,4-Trimethylbenzene	100	2.659										
sec-Butylbenzene	100	2.660										
1,3-DCB	100	1.543										
1,4-DCB	100	1.537										
p-Isopropyltoluene	100	2.313										

* SPCCs # CCCs

Comments:

AFCEE
 ORGANIC ANALYSES DATA SHEET 3 (Part 1)
 INITIAL MULTIPPOINT CALIBRATION-GC/MS

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Date of Initial Calibration: 11 Nov 15

Initial Calibration ID: 111115E1

Concentration Units: ug/L

GC Column ID: DB-VRX

Initial Calibration Sample IDs: LEVEL-7

Initial Calibration File IDs: LEVEL_7.D

Analyte	Std 7	RF 7	Std 8	RF 8	Std 9	RF 9							
1,2-DCB	100	1.530											
n-Butylbenzene	100	1.967											
1,2-Dibromo-3-chloropropane	100	0.221											
1,2,4-Trichlorobenzene	100	0.936											
Naphthalene	100	3.201											
Hexachlorobutadiene	100	0.331											
1,2,3-Trichlorobenzene	100	0.881											

* SPCCs # CCCs

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 3 (Part 2)
INITIAL MULTIPOINT CALIBRATION-GC/MS

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Date of Initial Calibration: 11 Nov 15

Initial Calibration ID: 111115E1

Concentration Units: ug/L

GC Column ID: DB-VRX

Analyte	Curve Type	Ave. RF	%RSD	r	COD	Q
Fluorobenzene	AVG	1.000	0.00			
Dichlorodifluoromethane	AVG	0.486	7.74			
Chloromethane*	AVG	0.323	11.0			
Vinyl Chloride#	AVG	0.317	6.22			
Bromomethane	AVG	0.216	8.28			
Chloroethane	AVG	0.185	8.50			
Trichlorofluoromethane	AVG	0.615	6.10			
1,1-DCE#	AVG	0.266	9.59			
Methylene Chloride	LINR	0.361		0.999		
trans-1,2-DCE	AVG	0.399	4.22			
MTBE (Methyl tert-Butyl Ether)	AVG	0.776	3.58			
1,1-DCA*	AVG	0.482	3.53			
cis-1,2-DCE	AVG	0.389	4.09			
Bromochloromethane	AVG	0.204	3.70			
Chloroform#	AVG	0.537	4.35			
2,2-Dichloropropane	AVG	0.459	3.72			
Dibromofluoromethane	AVG	0.302	6.40			
1,2-DCA-d4	AVG	0.353	7.70			
1,2-DCA	AVG	0.412	2.83			
1,1,1-TCA	AVG	0.509	2.47			
1,1-Dichloropropene	AVG	0.393	2.10			
Carbon Tetrachloride	AVG	0.458	1.63			
Benzene	AVG	1.046	4.05			
Dibromomethane	AVG	0.192	8.02			
1,2-Dichloropropane#	AVG	0.251	3.93			
TCE	AVG	0.297	4.18			
Bromodichloromethane	AVG	0.411	2.73			
cis-1,3-Dichloropropene	AVG	0.429	5.05			
trans-1,3-Dichloropropene	AVG	0.428	4.71			
1,1,2-TCA	AVG	0.213	3.85			

* SPCCs # CCCs

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 3 (Part 2)
INITIAL MULTIPOINT CALIBRATION-GC/MS

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Date of Initial Calibration: 11 Nov 15

Initial Calibration ID: 111115E1

Concentration Units: ug/L

GC Column ID: DB-VRX

Analyte	Curve Type	Ave. RF	%RSD	r	COD	Q
Toluene-d8	AVG	0.995	5.14			
Toluene#	AVG	1.135	2.57			
Chlorobenzene-d5	AVG	1.000	0.00			
1,3-Dichloropropane	AVG	0.551	2.59			
Dibromochloromethane	AVG	0.412	7.92			
1,2-EDB	AVG	0.370	3.38			
Tetrachloroethylene	AVG	0.376	2.30			
1,1,1,2-Tetrachloroethane	AVG	0.395	2.60			
Chlorobenzene*	AVG	1.056	2.18			
Ethylbenzene#	AVG	1.660	3.88			
m,p-Xylene	AVG	1.285	5.58			
Bromoform*	AVG	0.258	10.3			
Styrene	AVG	1.010	10.9			
o-Xylene	AVG	1.380	3.42			
1,1,2,2-Tetrachloroethane*	AVG	0.459	3.06			
1,4-Dichlorobenzene-d4	AVG	1.000	0.00			
1,2,3-Trichloropropane	AVG	0.290	4.49			
Isopropylbenzene	AVG	2.980	4.57			
4-Bromofluorobenzene	AVG	0.792	3.58			
Bromobenzene	AVG	1.317	1.93			
n-Propylbenzene	AVG	3.242	3.59			
2-Chlorotoluene	AVG	2.301	3.17			
4-Chlorotoluene	AVG	2.371	3.11			
1,3,5-Trimethylbenzene	AVG	2.454	6.32			
tert-Butylbenzene	AVG	1.885	5.05			
1,2,4-Trimethylbenzene	AVG	2.575	5.50			
sec-Butylbenzene	AVG	2.612	4.51			
1,3-DCB	AVG	1.572	1.96			
1,4-DCB	AVG	1.615	3.68			
p-Isopropyltoluene	AVG	2.342	3.59			

* SPCCs # CCCs

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 3 (Part 2)
INITIAL MULTIPOINT CALIBRATION-GC/MS

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Date of Initial Calibration: 11 Nov 15

Initial Calibration ID: 111115E1

Concentration Units: ug/L

GC Column ID: DB-VRX

Analyte	Curve Type	Ave. RF	%RSD	r	COD	Q
1,2-DCB	AVG	1.529	3.03			
n-Butylbenzene	AVG	1.885	5.68			
1,2-Dibromo-3-chloropropane	AVG	0.223	13.8			
1,2,4-Trichlorobenzene	AVG	0.971	4.41			
Naphthalene	AVG	3.245	2.45			
Hexachlorobutadiene	AVG	0.346	7.14			
1,2,3-Trichlorobenzene	AVG	0.923	3.22			

* SPCCs # CCCs

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Initial Calibration ID: 111115E1

2nd Source ID: ICVW1111

Concentration Units: ug/L

GC Column ID: DB-VRX

Analyte	Expected	Found	%D	Q
Dichlorodifluoromethane	20.0	19.2	-4	
Chloromethane*	20.0	18.6	-7	
Vinyl Chloride#	20.0	19.3	-3	
Bromomethane	20.0	19.7	-1	
Chloroethane	20.0	22.2	11	
Trichlorofluoromethane	20.0	20.8	4	
1,1-DCE#	20.0	18.7	-7	
Methylene Chloride	20.0	20.0	-0.2	
trans-1,2-DCE	20.0	19.8	-0.9	
MTBE (Methyl tert-Butyl Ether)	20.0	19.7	-1	
1,1-DCA*	20.0	19.4	-3	
cis-1,2-DCE	20.0	19.4	-3	
Bromochloromethane	20.0	19.0	-5	
Chloroform#	20.0	19.4	-3	
2,2-Dichloropropane	20.0	20.3	1	
1,2-DCA	20.0	19.9	-0.6	
1,1,1-TCA	20.0	19.9	-0.3	
1,1-Dichloropropene	20.0	19.3	-3	
Carbon Tetrachloride	20.0	19.7	-2	
Benzene	20.0	19.9	-0.8	
Dibromomethane	20.0	18.8	-6	
1,2-Dichloropropane#	20.0	19.9	-0.5	
TCE	20.0	19.4	-3	
Bromodichloromethane	20.0	19.3	-3	
cis-1,3-Dichloropropene	20.0	21.4	7	
trans-1,3-Dichloropropene	20.0	19.3	-4	
1,1,2-TCA	20.0	19.5	-2	

* SPCCs # CCCs

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Initial Calibration ID: 11115E1

2nd Source ID: ICVW1111

Concentration Units: ug/L

GC Column ID: DB-VRX

Analyte	Expected	Found	%D	Q
Toluene#	20.0	20.3	2	
1,3-Dichloropropane	20.0	19.3	-3	
Dibromochloromethane	20.0	19.5	-2	
1,2-EDB	20.0	18.5	-8	
Tetrachloroethylene	20.0	19.2	-4	
1,1,1,2-Tetrachloroethane	20.0	19.1	-4	
Chlorobenzene*	20.0	18.1	-10	
Ethylbenzene#	20.0	19.9	-0.5	
m,p-Xylene	40.0	38.7	-3	
Bromoform*	20.0	19.9	-0.8	
Styrene	20.0	20.8	4	
o-Xylene	20.0	18.6	-7	
1,1,2,2-Tetrachloroethane*	20.0	18.5	-8	
1,2,3-Trichloropropane	20.0	18.3	-8	
Isopropylbenzene	20.0	18.8	-6	
Bromobenzene	20.0	19.4	-3	
n-Propylbenzene	20.0	18.8	-6	
2-Chlorotoluene	20.0	18.7	-6	
4-Chlorotoluene	20.0	18.7	-7	
1,3,5-Trimethylbenzene	20.0	21.0	5	
tert-Butylbenzene	20.0	19.5	-3	
1,2,4-Trimethylbenzene	20.0	20.6	3	
sec-Butylbenzene	20.0	18.7	-6	
1,3-DCB	20.0	18.1	-10	
1,4-DCB	20.0	19.7	-1	
p-Isopropyltoluene	20.0	18.4	-8	
1,2-DCB	20.0	18.7	-7	

* SPCCs # CCCs

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 5
CALIBRATION VERIFICATION-GC/MS ANALYSIS

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Initial Calibration ID: 11115E1

CCV #1 ID: CV1-1123

CCV #2 ID:

CCV #3 ID:

CCV #1 File ID: CV1_1123.D

CCV #2 File ID:

CCV #3 File ID:

GC Column ID: DB-VRX

Concentration Units: ug/L

Analyte	CCV #1			CCV #2			CCV #3			Q
	Expected	Found	%D / Drift	Expected	Found	%D / Drift	Expected	Found	%D / Drift	
Dichlorodifluoromethane	20.0	21.7	8							
Chloromethane*	20.0	17.9	-10							
Vinyl Chloride#	20.0	20.2	0.8							
Bromomethane	20.0	21.1	5							
Chloroethane	20.0	18.3	-8							
Trichlorofluoromethane	20.0	23.1	16							
1,1-DCE#	20.0	18.6	-7							
Methylene Chloride	20.0	18.6	-7							
trans-1,2-DCE	20.0	19.3	-3							
MTBE (Methyl tert-Butyl Ether)	20.0	23.7	18							
1,1-DCA*	20.0	19.4	-3							
cis-1,2-DCE	20.0	19.7	-1							
Bromochloromethane	20.0	19.5	-3							
Chloroform#	20.0	21.0	5							
2,2-Dichloropropane	20.0	23.6	18							
Dibromofluoromethane	10.0	9.80	-2							
1,2-DCA-d4	10.0	10.9	9							
1,2-DCA	20.0	22.8	14							
1,1,1-TCA	20.0	23.2	16							
1,1-Dichloropropene	20.0	20.5	2							
Carbon Tetrachloride	20.0	22.8	14							
Benzene	20.0	18.7	-7							
Dibromomethane	20.0	19.6	-2							
1,2-Dichloropropane#	20.0	17.6	-12							
TCE	20.0	20.0	-0.1							
Bromodichloromethane	20.0	21.7	9							
cis-1,3-Dichloropropene	20.0	20.6	3							

* SPCCs # CCCs

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 5
CALIBRATION VERIFICATION-GC/MS ANALYSIS

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Initial Calibration ID: 111115E1

CCV #1 ID: CV1-1123

CCV #2 ID:

CCV #3 ID:

CCV #1 File ID: CV1_1123.D

CCV #2 File ID:

CCV #3 File ID:

GC Column ID: DB-VRX

Concentration Units: ug/L

Analyte	CCV #1			CCV #2			CCV #3			Q
	Expected	Found	%D / Drift	Expected	Found	%D / Drift	Expected	Found	%D / Drift	
trans-1,3-Dichloropropene	20.0	21.9	9							
1,1,2-TCA	20.0	18.5	-8							
Toluene-d8	10.0	9.45	-5							
Toluene#	20.0	19.3	-3							
1,3-Dichloropropane	20.0	18.9	-5							
Dibromochloromethane	20.0	21.6	8							
1,2-EDB	20.0	19.5	-3							
Tetrachloroethylene	20.0	20.4	2							
1,1,1,2-Tetrachloroethane	20.0	20.7	3							
Chlorobenzene*	20.0	18.1	-9							
Ethylbenzene#	20.0	19.6	-2							
m,p-Xylene	40.0	41.0	3							
Bromoform*	20.0	22.8	14							
Styrene	20.0	20.1	0.4							
o-Xylene	20.0	20.1	0.7							
1,1,2,2-Tetrachloroethane*	20.0	17.8	-11							
1,2,3-Trichloropropane	20.0	19.8	-0.8							
Isopropylbenzene	20.0	19.3	-4							
4-Bromofluorobenzene	10.0	9.90	-1.0							
Bromobenzene	20.0	18.3	-8							
n-Propylbenzene	20.0	18.0	-10							
2-Chlorotoluene	20.0	18.6	-7							
4-Chlorotoluene	20.0	19.3	-4							
1,3,5-Trimethylbenzene	20.0	19.6	-2							
tert-Butylbenzene	20.0	19.5	-3							
1,2,4-Trimethylbenzene	20.0	19.5	-3							
sec-Butylbenzene	20.0	18.3	-9							

* SPCCs # CCCs

Comments:

AFCEE
 ORGANIC ANALYSES DATA SHEET 5
 CALIBRATION VERIFICATION-GC/MS ANALYSIS

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Initial Calibration ID: 111115E1

CCV #1 ID: CV1-1123

CCV #2 ID:

CCV #3 ID:

CCV #1 File ID: CV1_1123.D

CCV #2 File ID:

CCV #3 File ID:

GC Column ID: DB-VRX

Concentration Units: ug/L

Analyte	CCV #1			CCV #2			CCV #3			Q
	Expected	Found	%D / Drift	Expected	Found	%D / Drift	Expected	Found	%D / Drift	
1,3-DCB	20.0	18.9	-5							
1,4-DCB	20.0	19.0	-5							
p-Isopropyltoluene	20.0	19.0	-5							
1,2-DCB	20.0	19.2	-4							
n-Butylbenzene	20.0	18.7	-6							
1,2-Dibromo-3-chloropropane	20.0	18.6	-7							
1,2,4-Trichlorobenzene	20.0	19.1	-5							
Naphthalene	20.0	19.2	-4							
Hexachlorobutadiene	20.0	21.8	9							
1,2,3-Trichlorobenzene	20.0	19.5	-2							

* SPCCs # CCCs

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 5A
CALIBRATION VERIFICATION-GC/MS ANALYSIS

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Initial Calibration ID: 111115E1

CCV #1 ID: CV1-1123

CCV #2 ID:

CCV #3 ID:

CCV #1 File ID: CV1_1123.D

CCV #2 File ID:

CCV #3 File ID:

GC Column ID: DB-VRX

Concentration Units: ug/L

Analyte	CCV #1				CCV #2				CCV #3				Q
	RF	Expected	Found	%D	RF	Expected	Found	%D	RF	Expected	Found	%D	
Chloromethane*	0.290	20.0	17.9	-10									
Vinyl Chloride#	0.320	20.0	20.2	0.8									
1,1-DCE#	0.248	20.0	18.6	-7									
1,1-DCA*	0.467	20.0	19.4	-3									
Chloroform#	0.564	20.0	21.0	5									
1,2-Dichloropropane#	0.221	20.0	17.6	-12									
Toluene#	1.096	20.0	19.3	-3									
Chlorobenzene*	0.958	20.0	18.1	-9									
Ethylbenzene#	1.629	20.0	19.6	-2									
Bromoform*	0.293	20.0	22.8	14									
1,1,2,2-Tetrachloroethane*	0.408	20.0	17.8	-11									

* SPCCs # CCCs

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 6
BLANKS

Analytical Method: SW8260C

Preparatory Method: SW5030

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Method Blank ID: WB1-1123

Matrix: WATER

Instrument ID: MSE

Date Prepared: 23 Nov 15

Date Analyzed: 23 Nov 15

Concentration Units: ug/L

Analyte	DL	RL	Result	Dilution	Confirm	Qualifier
Dichlorodifluoromethane	0.15	0.5	0.15	1		U
Chloromethane	0.15	2.0	0.15	1		U
Vinyl Chloride	0.15	0.5	0.15	1		U
Bromomethane	0.20	1.0	0.20	1		U
Chloroethane	0.15	0.5	0.15	1		U
Trichlorofluoromethane	0.15	1.0	0.15	1		U
1,1-DCE	0.15	1.0	0.15	1		U
Methylene Chloride	0.15	2.0	0.15	1		U
trans-1,2-DCE	0.15	0.5	0.15	1		U
MTBE (Methyl tert-Butyl Ether)	0.15	0.5	0.15	1		U
1,1-DCA	0.15	0.5	0.15	1		U
cis-1,2-DCE	0.15	0.5	0.15	1		U
Bromochloromethane	0.15	1.0	0.15	1		U
Chloroform	0.15	0.5	0.15	1		U
2,2-Dichloropropane	0.15	1.0	0.15	1		U
1,2-DCA	0.15	0.5	0.15	1		U
1,1,1-TCA	0.15	1.0	0.15	1		U
1,1-Dichloropropene	0.15	1.0	0.15	1		U
Carbon Tetrachloride	0.15	0.5	0.15	1		U
Benzene	0.15	0.5	0.15	1		U
Dibromomethane	0.15	1.0	0.15	1		U
1,2-Dichloropropane	0.15	0.5	0.15	1		U
TCE	0.15	0.5	0.15	1		U
Bromodichloromethane	0.15	1.0	0.15	1		U
cis-1,3-Dichloropropene	0.15	0.5	0.15	1		U
trans-1,3-Dichloropropene	0.15	0.5	0.15	1		U
1,1,2-TCA	0.15	1.0	0.15	1		U
Toluene	0.15	0.5	0.15	1		U
1,3-Dichloropropane	0.15	1.0	0.15	1		U
Dibromochloromethane	0.15	1.0	0.15	1		U
1,2-EDB	0.15	1.0	0.15	1		U
Tetrachloroethylene	0.15	0.5	0.15	1		U
1,1,1,2-Tetrachloroethane	0.15	1.0	0.15	1		U
Chlorobenzene	0.15	0.5	0.15	1		U

*Surrogate Recoveries are reported in Appendix O-A
Internal Standards are reported in Appendix O-C*

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 6
BLANKS

Analytical Method: SW8260C

Preparatory Method: SW5030

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Method Blank ID: WB1-1123

Matrix: WATER

Instrument ID: MSE

Date Prepared: 23 Nov 15

Date Analyzed: 23 Nov 15

Concentration Units: ug/L

Analyte	DL	RL	Result	Dilution	Confirm	Qualifier
Ethylbenzene	0.15	0.5	0.15	1		U
m,p-Xylene	0.30	1.0	0.30	1		U
Bromoform	0.15	1.0	0.15	1		U
Styrene	0.15	1.0	0.15	1		U
o-Xylene	0.15	0.5	0.15	1		U
1,1,2,2-Tetrachloroethane	0.15	1.0	0.15	1		U
1,2,3-Trichloropropane	0.15	1.0	0.15	1		U
Isopropylbenzene	0.15	1.0	0.15	1		U
Bromobenzene	0.15	1.0	0.15	1		U
n-Propylbenzene	0.15	1.0	0.15	1		U
2-Chlorotoluene	0.15	1.0	0.15	1		U
4-Chlorotoluene	0.15	1.0	0.15	1		U
1,3,5-Trimethylbenzene	0.15	1.0	0.15	1		U
tert-Butylbenzene	0.15	1.0	0.15	1		U
1,2,4-Trimethylbenzene	0.15	1.0	0.15	1		U
sec-Butylbenzene	0.15	1.0	0.15	1		U
1,3-DCB	0.15	1.0	0.15	1		U
1,4-DCB	0.15	1.0	0.15	1		U
p-Isopropyltoluene	0.15	1.0	0.15	1		U
1,2-DCB	0.15	1.0	0.15	1		U
n-Butylbenzene	0.15	1.0	0.15	1		U
1,2-Dibromo-3-chloropropane	0.15	0.5	0.15	1		U
1,2,4-Trichlorobenzene	0.15	0.5	0.15	1		U
Naphthalene	0.15	1.0	0.15	1		U
Hexachlorobutadiene	0.15	1.0	0.18	1		J
1,2,3-Trichlorobenzene	0.15	1.0	0.15	1		U

*Surrogate Recoveries are reported in Appendix O-A
Internal Standards are reported in Appendix O-C*

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 6
BLANKS

Analytical Method: SW8260C

Preparatory Method: SW5030

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Method Blank ID: WB1-1123

Matrix: WATER

Instrument ID: MSE

Date Prepared: 23 Nov 15

Date Analyzed: 23 Nov 15

Concentration Units: ug/L

Analyte	DL	RL	Result	Dilution	Confirm	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
Dibromofluoromethane	101	83-128	
1,2-DCA-d4	113	80-123	
Toluene-d8	91	85-116	
4-Bromofluorobenzene	95	82-121	

Internal Standard	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

*Surrogate Recoveries are reported in Appendix O-A
Internal Standards are reported in Appendix O-C*

AFCEE
ORGANIC ANALYSES DATA SHEET 7
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

LCS ID: BS1W1123

Concentration Units: ug/L

Instrument ID: MSE

Date Extracted: 23 Nov 15

Date Analyzed: 23 Nov 15

Analyte	Expected	Found	%R	Control Limits	Q
Dichlorodifluoromethane	20.0	16.4	82	70-130	
Chloromethane	20.0	20.1	100	49-129	
Vinyl Chloride	20.0	19.5	98	46-134	
Bromomethane	20.0	23.7	119	32-121	
Chloroethane	20.0	18.9	95	70-130	
Trichlorofluoromethane	20.0	21.6	108	67-152	
1,1-Dichloroethene	20.0	17.4	87	61-135	
Methylene chloride	20.0	18.1	90	79-133	
trans-1,2-Dichloroethene	20.0	19.0	95	70-122	
Methyl tert-Butyl Ether (MTBE)	20.0	20.2	101	65-123	
1,1-Dichloroethane	20.0	18.6	93	76-119	
cis-1,2-Dichloroethene	20.0	19.5	98	75-126	
Bromochloromethane	20.0	19.0	95	65-129	
Chloroform	20.0	20.4	102	79-120	
2,2-Dichloropropane	20.0	22.5	113	69-137	
1,2-Dichloroethane	20.0	23.0	115	75-132	
1,1,1-Trichloroethane	20.0	22.2	111	76-114	
1,1-Dichloropropene	20.0	18.2	91	73-132	
Carbon tetrachloride	20.0	21.5	108	58-135	
Benzene	20.0	18.2	91	81-122	
Dibromomethane	20.0	18.3	91	76-125	
1,2-Dichloropropane	20.0	17.6	88	81-119	
Trichloroethene (TCE)	20.0	19.9	100	74-121	
Bromodichloromethane	20.0	20.9	105	79-123	
cis-1,3-Dichloropropene	20.0	22.1	110	70-130	
trans-1,3-Dichloropropene	20.0	21.2	106	70-130	
1,1,2-Trichloroethane	20.0	18.3	91	81-126	
Toluene	20.0	19.1	95	77-122	
1,3-Dichloropropane	20.0	19.8	99	73-126	
Dibromochloromethane	20.0	21.4	107	70-130	
1,2-Dibromoethane (EDB)	20.0	19.2	96	80-121	
Tetrachloroethene (PCE)	20.0	20.1	101	56-128	
1,1,1,2-Tetrachloroethane	20.0	20.9	105	81-129	
Chlorobenzene	20.0	18.8	94	75-120	
Ethylbenzene	20.0	19.4	97	73-127	
m,p-Xylene	40.0	41.1	103	76-128	

Comments:

AFCEE
 ORGANIC ANALYSES DATA SHEET 7
 LABORATORY CONTROL SAMPLE

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

LCS ID: BS1W1123

Concentration Units: ug/L

Instrument ID: MSE

Date Extracted: 23 Nov 15

Date Analyzed: 23 Nov 15

Analyte	Expected	Found	%R	Control Limits	Q

Surrogate	Recovery	Control Limits	Qualifier
Dibromofluoromethane	95	83-128	
1,2-DCA-d4	106	80-123	
Toluene-d8	91	85-116	
4-Bromofluorobenzene	97	82-121	

Internal Standard	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 10
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Field Sample ID/Std ID/ Blank ID/QC Sample ID	Laboratory File ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
LEVEL-1	LEVEL_1.D	11 Nov 15	1249	11 Nov 15	1315
LEVEL-2	LEVEL_2.D	11 Nov 15	1342	11 Nov 15	1408
LEVEL-3	LEVEL_3.D	11 Nov 15	1409	11 Nov 15	1435
LEVEL-4	LEVEL_4.D	11 Nov 15	1436	11 Nov 15	1502
LEVEL-5	LEVEL_5.D	11 Nov 15	1503	11 Nov 15	1529
LEVEL-6	LEVEL_6.D	11 Nov 15	1530	11 Nov 15	1556
LEVEL-7	LEVEL_7.D	11 Nov 15	1557	11 Nov 15	1623
ICVW1111	ICVW1111.D	11 Nov 15	1722	11 Nov 15	1748

Comments:

AFCEE
 ORGANIC ANALYSES DATA SHEET 10
 INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Field Sample ID/Std ID/ Blank ID/QC Sample ID	Laboratory File ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
CV1-1123	CV1_1123.D	23 Nov 15	0835	23 Nov 15	0901
BS1W1123	BS1W1123.D	23 Nov 15	0903	23 Nov 15	0929
WB1-1123	WB1_1123.D	23 Nov 15	0958	23 Nov 15	1024
TBNO-Q42015-01	367803.D	23 Nov 15	1532	23 Nov 15	1558
MW261-GW-Q42015	367801.D	23 Nov 15	1559	23 Nov 15	1625
MW401-GW-Q42015	367802.D	23 Nov 15	1627	23 Nov 15	1653

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 11
INSTRUMENT PERFORMANCE CHECK

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Compound: BFB

Injection Date/Time: 11 Nov 15 1222

Mass	Ion Abundance Criteria	% Relative Abundance	Q
50	15% to 40% of mass 95	17.5	
75	30% to 60% of mass 95	45.4	
95	base peak, 100% relative abundance	100.0	
96	5% to 9% of mass 95	8.0	
173	0% to less than 2% of mass 174	0.4	(0.5)
174	greater than 50% of mass 95	77.4	
175	5% to 9% of mass 174	4.7	(6.1)
176	>95%, but <101% of mass 174	74.9	(96.8)
177	5% to 9% of mass 176	5.7	(7.6)

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, STANDARDS, BLANKS AND SPIKES:

Field Sample#/Std ID/ Blank ID/QC Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed
LEVEL-1	LEVEL-1	11 Nov 15	1249
LEVEL-2	LEVEL-2	11 Nov 15	1342
LEVEL-3	LEVEL-3	11 Nov 15	1409
LEVEL-4	LEVEL-4	11 Nov 15	1436
LEVEL-5	LEVEL-5	11 Nov 15	1503
LEVEL-6	LEVEL-6	11 Nov 15	1530
LEVEL-7	LEVEL-7	11 Nov 15	1557
ICVW1111	ICVW1111	11 Nov 15	1722

AFCEE
 ORGANIC ANALYSES DATA SHEET 11
 INSTRUMENT PERFORMANCE CHECK

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Compound: BFB

Injection Date/Time: 23 Nov 15 0835

Mass	Ion Abundance Criteria	% Relative Abundance	Q
50	15% to 40% of mass 95	18.1	
75	30% to 60% of mass 95	50.8	
95	base peak, 100% relative abundance	100.0	
96	5% to 9% of mass 95	7.2	
173	0% to less than 2% of mass 174	0.3	(0.3)
174	greater than 50% of mass 95	81.0	
175	5% to 9% of mass 174	6.4	(7.9)
176	>95%, but <101% of mass 174	78.0	(96.3)
177	5% to 9% of mass 176	5.3	(6.8)

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, STANDARDS, BLANKS AND SPIKES:

Field Sample#/Std ID/ Blank ID/QC Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed
CV1-1123	CV1-1123	23 Nov 15	0835
BS1W1123	BS1W1123	23 Nov 15	0903
WB1-1123	WB1-1123	23 Nov 15	0958
TBNO-Q42015-01	P367803	23 Nov 15	1532
MW261-GW-Q42015	P367801	23 Nov 15	1559
MW401-GW-Q42015	P367802	23 Nov 15	1627

AFCEE
ORGANIC ANALYSES DATA SHEET APPENDIX A
SURROGATE RESULTS

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Matrix: Water

Field/QC Sample ID	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	Q
BS1W1123	95	106	91	97									
WB1-1123	101	113	91	95									
TBNO-Q42015-01	98	113	92	93									
MW261-GW-Q42015	102	117	91	93									
MW401-GW-Q42015	101	116	90	93									

- S1: Dibromofluoromethane 83-128
- S2: 1,2-DCA-d4 80-123
- S3: Toluene-d8 85-116
- S4: 4-Bromofluorobenzene 82-121

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET APPENDIX C
INTERNAL STANDARD AREA AND RT SUMMARY

Analytical Method: SW8260C

SDG #: P3678

Lab Name: CH2M HILL ASL

Contract #: FA4890-06-D-0007

Instrument ID: MSE

Date Analyzed: 11 Nov 15 Time Analyzed: 1436

	IS1		IS2		IS3	
	AREA (#)	TIME (#)	AREA (#)	TIME (#)	AREA (#)	TIME (#)
MID POINT ICAL	434533	11.9	337275	15.49	170108	18.46
UPPER LIMIT	869066	12.4	674550	15.99	340216	18.96
LOWER LIMIT	217267	11.4	168638	14.99	85054	17.96
SAMPLE ID						
ICVW1111	413169	11.89	325149	15.49	164967	18.46
CV1-1123	236942	11.9	187409	15.49	100307	18.46
BS1W1123	250081	11.9	193988	15.49	106616	18.46
WB1-1123	225047	11.9	179526	15.49	96264	18.46
TBNO-Q42015-01	230465	11.89	184969	15.49	98835	18.46
MW261-GW-Q42015	245843	11.9	200773	15.49	106535	18.47
MW401-GW-Q42015	249721	11.9	203253	15.49	109236	18.46

IS1: Fluorobenzene	IS4:
IS2: Chlorobenzene-d5	IS5:
IS3: 1,4-Dichlorobenzene-d4	IS6:

Column used to flag values outside of QC limits with an asterisk

Comments:

DL Study Report

Analytical Method: SW8260C
 Matrix: Water

Instrument ID: MSE
 Concentration Units: ug/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	DL
			1	2	3	4	5	6	7	8		
Dichlorodifluoromethane	03/12/2014	0.30	0.30	0.27	0.24	0.26	0.31	0.26	0.32		0.03	0.15
Chloromethane	03/12/2014	0.30	0.29	0.34	0.28	0.35	0.33	0.31	0.36		0.03	0.15
Vinyl Chloride	03/12/2014	0.30	0.37	0.33	0.31	0.33	0.37	0.35	0.38		0.03	0.15
Bromomethane	03/12/2014	0.50	0.50	0.54	0.57	0.59	0.57	0.44	0.57		0.05	0.20
Chloroethane	03/12/2014	0.30	0.39	0.37	0.33	0.37	0.38	0.33	0.45		0.04	0.15
Trichlorofluoromethane	03/12/2014	0.30	0.33	0.32	0.28	0.28	0.34	0.33	0.34		0.03	0.15
1,1-DCE	03/12/2014	0.30	0.33	0.34	0.37	0.38	0.35	0.42	0.41		0.03	0.15
Methylene Chloride	03/12/2014	0.30	0.30	0.35	0.32	0.35	0.32	0.36	0.34		0.02	0.15
trans-1,2-DCE	03/12/2014	0.30	0.33	0.34	0.35	0.34	0.32	0.35	0.37		0.02	0.15
MTBE (Methyl tert-Butyl Ether)	03/12/2014	0.30	0.35	0.30	0.31	0.29	0.30	0.32	0.33		0.02	0.15
1,1-DCA	03/12/2014	0.30	0.33	0.36	0.34	0.33	0.34	0.36	0.36		0.01	0.15
cis-1,2-DCE	03/12/2014	0.30	0.35	0.38	0.31	0.32	0.32	0.35	0.39		0.03	0.15
Bromochloromethane	03/12/2014	0.30	0.33	0.36	0.34	0.36	0.33	0.34	0.40		0.02	0.15
Chloroform	03/12/2014	0.30	0.34	0.35	0.36	0.38	0.36	0.37	0.37		0.01	0.15
2,2-Dichloropropane	03/12/2014	0.30	0.30	0.30	0.31	0.32	0.32	0.34	0.36		0.02	0.15
1,2-DCA	03/12/2014	0.30	0.33	0.35	0.34	0.32	0.34	0.35	0.39		0.02	0.15
1,1,1-TCA	03/12/2014	0.30	0.30	0.32	0.30	0.33	0.34	0.37	0.37		0.03	0.15
1,1-Dichloropropene	03/12/2014	0.30	0.33	0.36	0.32	0.33	0.34	0.38	0.38		0.02	0.15
Carbon Tetrachloride	03/12/2014	0.30	0.31	0.31	0.32	0.31	0.31	0.34	0.32		0.01	0.15
Benzene	03/12/2014	0.30	0.32	0.34	0.33	0.34	0.34	0.37	0.38		0.02	0.15
Dibromomethane	03/12/2014	0.30	0.34	0.37	0.34	0.36	0.35	0.41	0.39		0.03	0.15
1,2-Dichloropropane	03/12/2014	0.30	0.34	0.36	0.33	0.34	0.34	0.34	0.38		0.02	0.15
TCE	03/12/2014	0.30	0.34	0.35	0.31	0.34	0.37	0.37	0.38		0.02	0.15
Bromodichloromethane	03/12/2014	0.30	0.32	0.34	0.31	0.32	0.31	0.32	0.35		0.02	0.15
cis-1,3-Dichloropropene	03/12/2014	0.30	0.29	0.33	0.31	0.34	0.34	0.32	0.33		0.02	0.15
trans-1,3-Dichloropropene	03/12/2014	0.30	0.31	0.31	0.29	0.31	0.29	0.34	0.34		0.02	0.15
1,1,2-TCA	03/12/2014	0.30	0.34	0.35	0.36	0.37	0.37	0.33	0.38		0.02	0.15
Toluene	03/12/2014	0.30	0.32	0.33	0.31	0.34	0.35	0.35	0.36		0.02	0.15
1,3-Dichloropropane	03/12/2014	0.30	0.32	0.33	0.31	0.33	0.31	0.36	0.38		0.03	0.15
Dibromochloromethane	03/12/2014	0.30	0.29	0.30	0.29	0.32	0.30	0.35	0.31		0.02	0.15
1,2-EDB	03/12/2014	0.30	0.30	0.29	0.30	0.33	0.31	0.34	0.33		0.02	0.15
Tetrachloroethylene	03/12/2014	0.30	0.32	0.31	0.32	0.32	0.33	0.33	0.35		0.01	0.15
1,1,1,2-Tetrachloroethane	03/12/2014	0.30	0.31	0.31	0.29	0.31	0.26	0.30	0.32		0.02	0.15
Chlorobenzene	03/12/2014	0.30	0.32	0.34	0.33	0.32	0.33	0.36	0.37		0.02	0.15
Ethylbenzene	03/12/2014	0.30	0.32	0.32	0.30	0.34	0.32	0.34	0.34		0.02	0.15
m,p-Xylene	03/12/2014	0.30	0.62	0.63	0.59	0.64	0.65	0.67	0.66		0.03	0.30
Bromoform	03/12/2014	0.30	0.33	0.31	0.29	0.27	0.29	0.32	0.30		0.02	0.15
Styrene	03/12/2014	0.25	0.22	0.24	0.19	0.28	0.20	0.21	0.23		0.03	0.15
o-Xylene	03/12/2014	0.30	0.31	0.31	0.30	0.32	0.31	0.32	0.36		0.02	0.15
1,1,2,2-Tetrachloroethane	03/12/2014	0.30	0.29	0.32	0.30	0.32	0.30	0.34	0.33		0.02	0.15
1,2,3-Trichloropropane	03/12/2014	0.30	0.38	0.32	0.32	0.34	0.32	0.33	0.40		0.03	0.15

MDL FORM

DL Study Report

Analytical Method: SW8260C
 Matrix: Water

Instrument ID: MSE
 Concentration Units: ug/L

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	DL
			1	2	3	4	5	6	7	8		
Isopropylbenzene	03/12/2014	0.30	0.32	0.31	0.31	0.30	0.33	0.33	0.35		0.02	0.15
Bromobenzene	03/12/2014	0.30	0.35	0.36	0.31	0.35	0.34	0.38	0.38		0.02	0.15
n-Propylbenzene	03/12/2014	0.30	0.33	0.32	0.30	0.33	0.33	0.36	0.35		0.02	0.15
2-Chlorotoluene	03/12/2014	0.30	0.34	0.34	0.32	0.32	0.32	0.37	0.35		0.02	0.15
4-Chlorotoluene	03/12/2014	0.30	0.33	0.33	0.33	0.33	0.33	0.35	0.36		0.01	0.15
1,3,5-Trimethylbenzene	03/12/2014	0.25	0.23	0.27	0.21	0.30	0.22	0.22	0.25		0.03	0.15
tert-Butylbenzene	03/12/2014	0.25	0.23	0.26	0.20	0.28	0.22	0.23	0.26		0.03	0.15
1,2,4-Trimethylbenzene	03/12/2014	0.30	0.33	0.31	0.28	0.31	0.31	0.33	0.34		0.02	0.15
sec-Butylbenzene	03/12/2014	0.30	0.23	0.25	0.22	0.30	0.22	0.23	0.24		0.03	0.15
1,3-DCB	03/12/2014	0.30	0.35	0.34	0.31	0.33	0.35	0.35	0.36		0.02	0.15
1,4-DCB	03/12/2014	0.30	0.36	0.36	0.34	0.34	0.35	0.36	0.38		0.01	0.15
p-Isopropyltoluene	03/12/2014	0.30	0.33	0.31	0.32	0.33	0.32	0.35	0.34		0.01	0.15
1,2-DCB	03/12/2014	0.30	0.32	0.34	0.31	0.33	0.32	0.36	0.36		0.02	0.15
n-Butylbenzene	03/12/2014	0.25	0.24	0.26	0.21	0.30	0.23	0.22	0.27		0.03	0.15
1,2-Dibromo-3-chloropropane	03/12/2014	0.30	0.29	0.27	0.26	0.27	0.26	0.25	0.31		0.02	0.15
1,2,4-Trichlorobenzene	03/12/2014	0.30	0.37	0.33	0.33	0.32	0.35	0.35	0.38		0.02	0.15
Naphthalene	03/12/2014	0.30	0.33	0.32	0.30	0.30	0.31	0.35	0.31		0.02	0.15
Hexachlorobutadiene	03/12/2014	0.30	0.26	0.19	0.17	0.20	0.22	0.31	0.21		0.05	0.15
1,2,3-Trichlorobenzene	03/12/2014	0.30	0.34	0.32	0.30	0.35	0.35	0.34	0.37		0.02	0.15

CHAIN OF CUSTODY/SHIPPING DOCUMENTS

CH2MHILL

CHAIN OF CUSTODY RECORD

Project Name Former Norton AFB Location Former Norton AFB Project Number 393091.NO.97.15.05 Project Manager Andy Cramer Sample Manager Mike Ladeau (714) 227-3324 Task Order Project NORTON GW MONITORING Q42015 Turnaround Time 21 Days Shipping Date: COC Number: CHMC-Q42015			Container: 40 mL VOA 40 mL VOA Preservatives: HCl, HCl pH<2, 4°C pH<2, 4°C Filtered: NA NA Holding Time: 14 14	SW8260C (VOCs) Trip Blank SW8260C (VOCs)	Number of Containers	COMMENTS
DATE TIME Matrix						
MW113-GW-Q42015		Water				
MW261-GW-Q42015	11/19/15	1255	Water	X		
MW401-GW-Q42015	↓	111D	Water	X		
TBNO-Q42015-01	↓	080D	Water		X	
TOTAL NUMBER OF CONTAINERS					8	

Signatures		Date/Time	Shipping Details		ATTN: Sample Custody and Kathy McKinley	Special Instructions: Please e-mail COC copy to Jeannette Harris/SAC at jharris4@ch2m.com Report Copy to Mark Fesler (530) 229-3273
Approved by [Signature]			Method of Shipment: FedEx On Ice: <input checked="" type="checkbox"/> yes <input type="checkbox"/> no 0.1°C Airbill No: 7750 1166 6531 Lab Name: CH2M HILL Applied Sciences Lab Lab Phone: (541) 768-3144			
Sampled by [Signature]		11/19/15 1300				
Relinquished by [Signature]		11/19/15 1600				
Received by [Signature]						
Relinquished by [Signature]						
Received by [Signature]		11/20/15 1635				



SDG ID: P3678

Date Received: 11/20/15

Client/Project: Former Norton AFB

Received By: JVP

Were custody seals intact and on the outside of the cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Shipping Record:	<input type="checkbox"/> Hand Delivered	<input checked="" type="checkbox"/> On File	<input type="checkbox"/> COC
Radiological Screening for DoD	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Packing Material:	<input type="checkbox"/> Hand Delivered	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice <input type="checkbox"/> Box
Temp OK? (<6C) Therm ID: TH173 Exp. 01/16	0.1 °C	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A
Was a Chain of Custody (CoC) Provided?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was the CoC correctly filled out (If No, document below)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did sample labels agree with COC? (If No, document below)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did the CoC list a correct bottle count and the preservative types (No=Correct on CoC)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Were the sample containers in good condition (broken or leaking)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was enough sample volume provided for analysis? (If No, document below)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Containers supplied by ASL?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Any sample with < 1/2 holding time remaining? If so contact LPM	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Samples have multi-phase? If yes, document on SRER	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
All water VOCs free of air bubbles? No, document on SRER	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
pH of all samples met criteria on receipt? If "No", preserve and document below.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Dissolved/Soluble metals filtered in the field?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Dissolved/Soluble metals have sediment in bottom of container? If so document below.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A

Preservation Adjustment

Sample ID	Reagent	Reagent Lot Number	Volume Added	Initials/Time	24 hour pH check Initials/Time

Did pH of all metals samples preserved upon receipt meet criteria 24 hours after preservation? Yes No

Sample Exception Report (The following exceptions were noted)

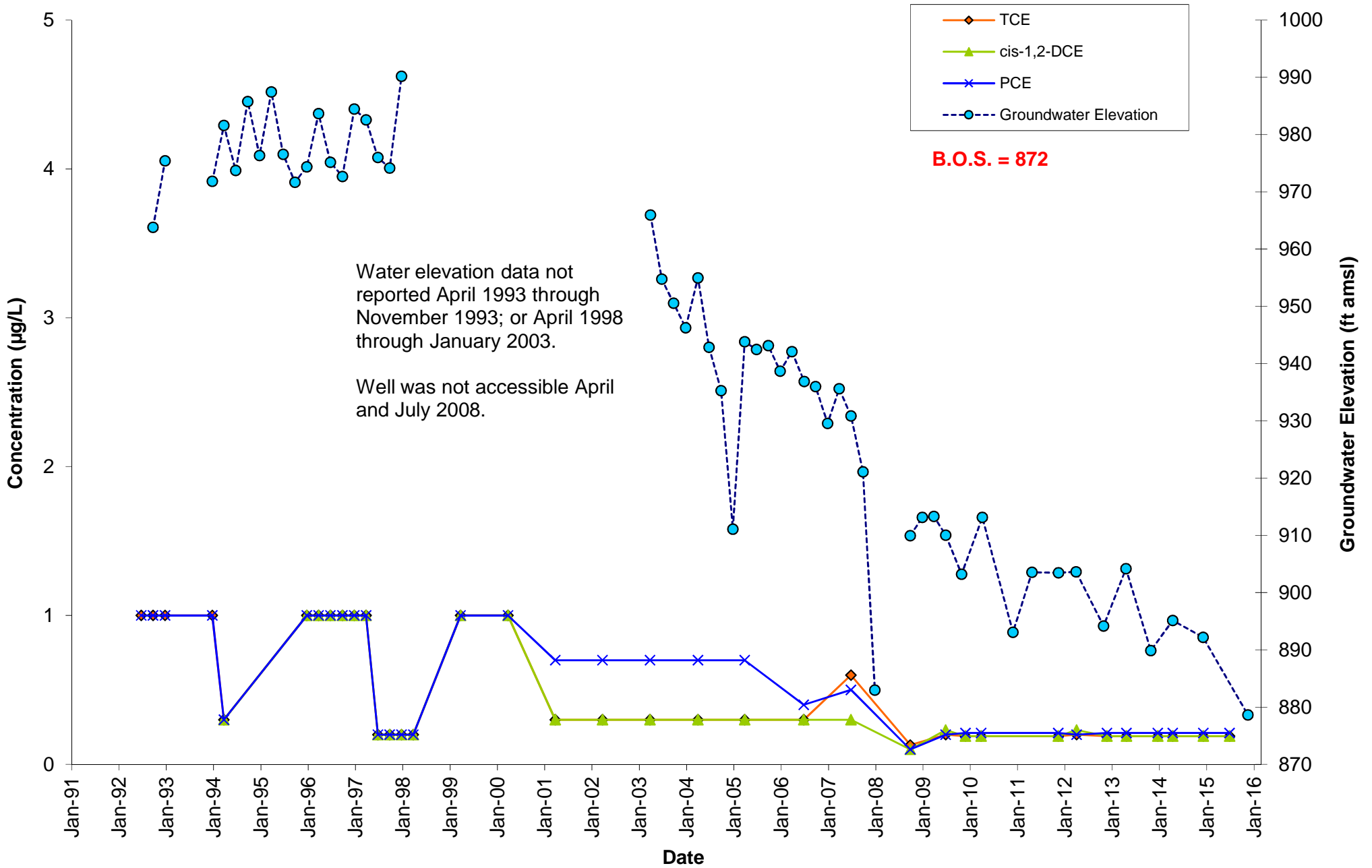
Client was notified on: _____ Client contact: _____
<u>Resolution to Exception:</u>

Appendix C
Well Hydrographs/VOC Concentration Graphs

Groundwater Elevation and Contaminant Concentration vs. Time

CBA/Site 17 C-Level Well MW97

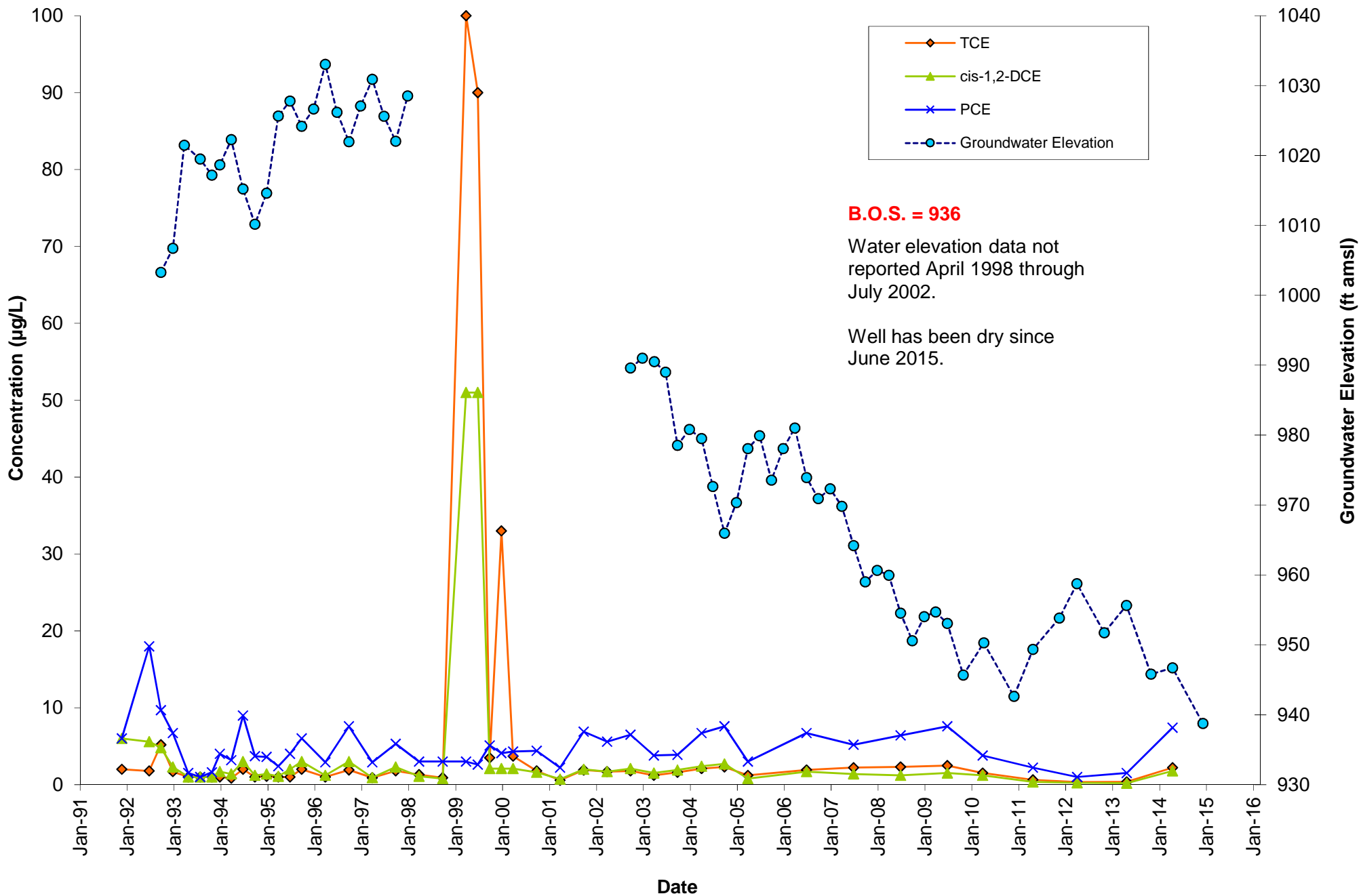
Former Norton Air Force Base



Groundwater Elevation and Contaminant Concentration vs. Time

NBA B-Level Well MW113

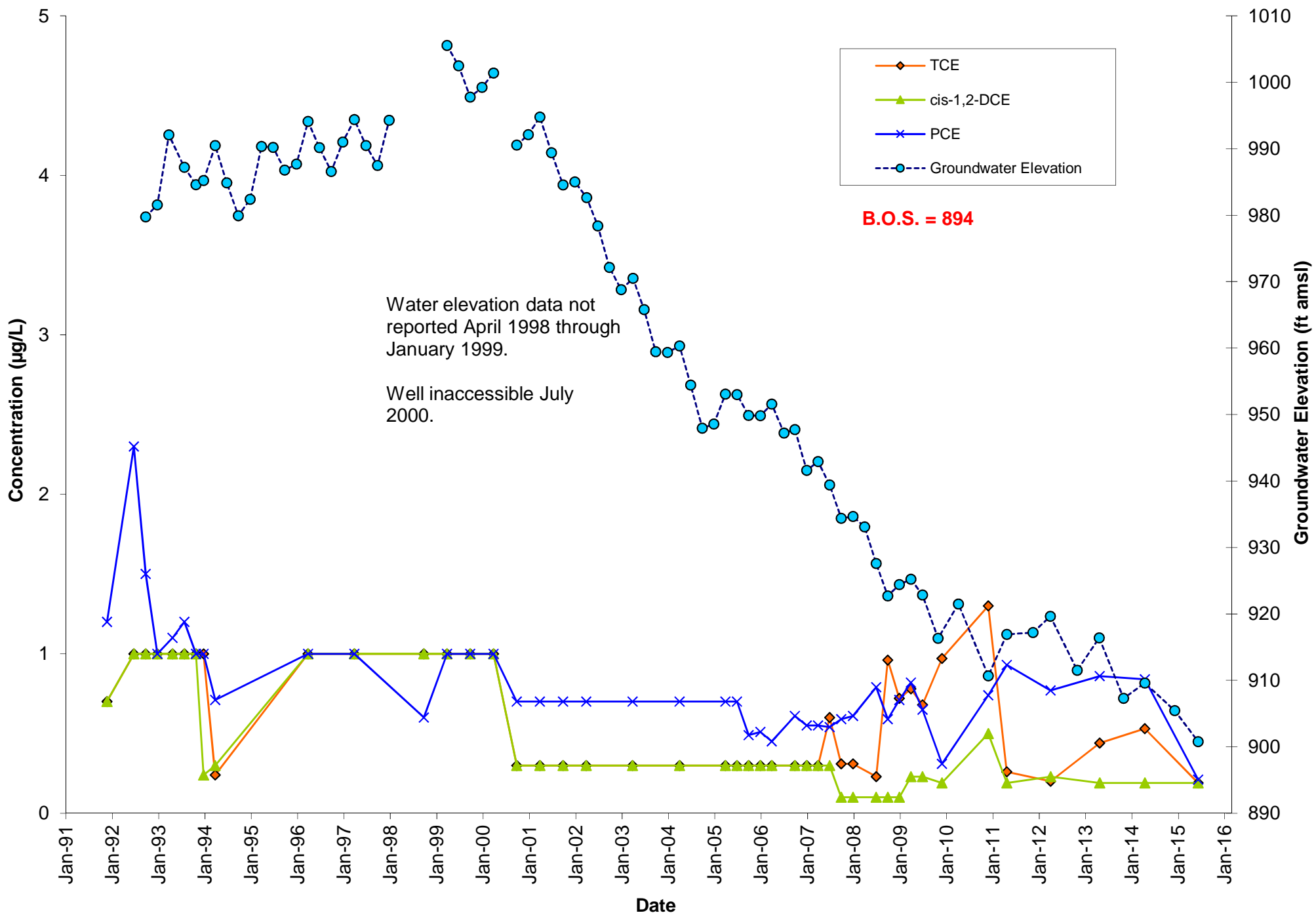
Former Norton Air Force Base



Groundwater Elevation and Contaminant Concentration vs. Time

CBA C-Level Well MW184

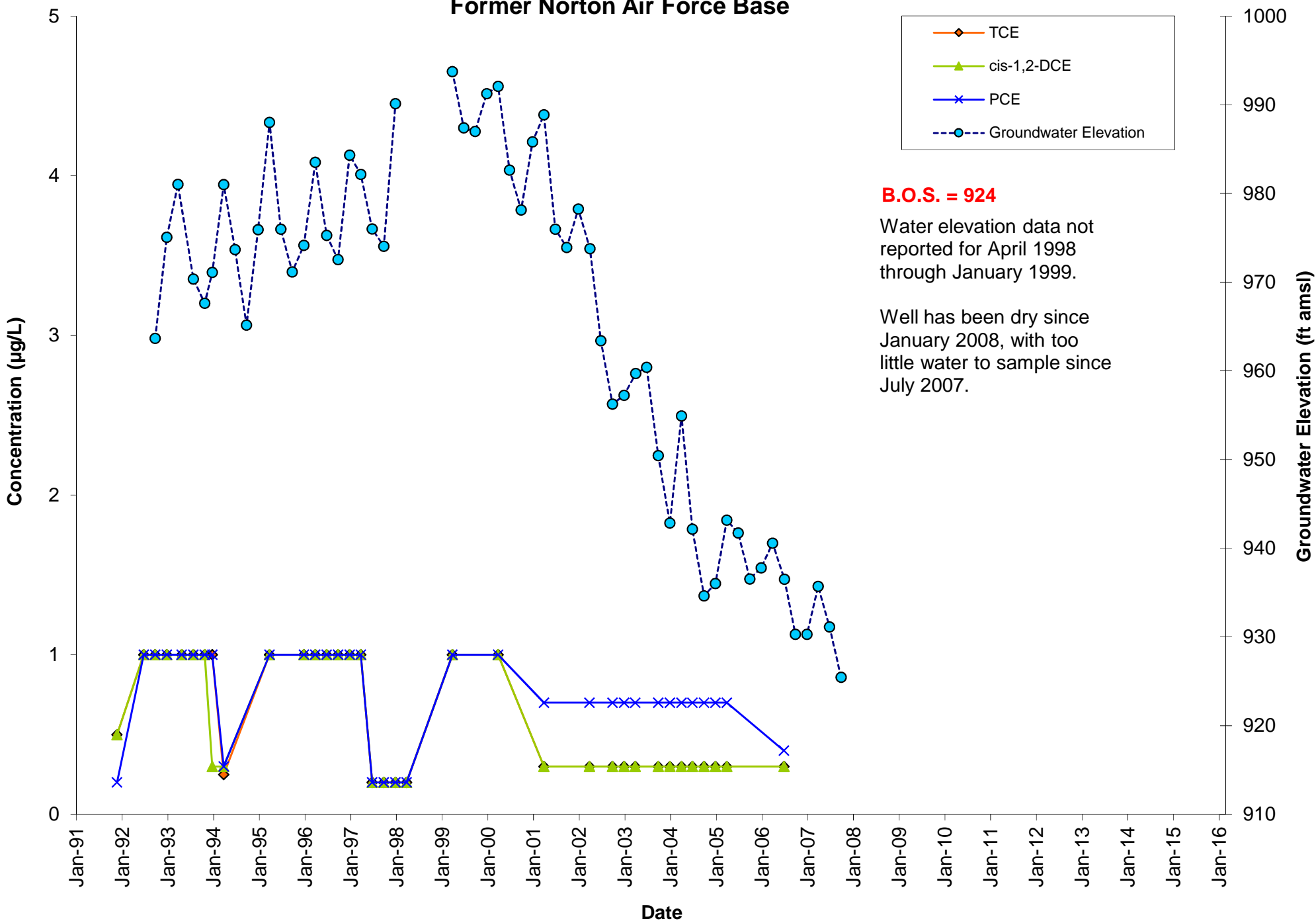
Former Norton Air Force Base



Groundwater Elevation and Contaminant Concentration vs. Time

IWTP/Site 17 B-Level Well MW207

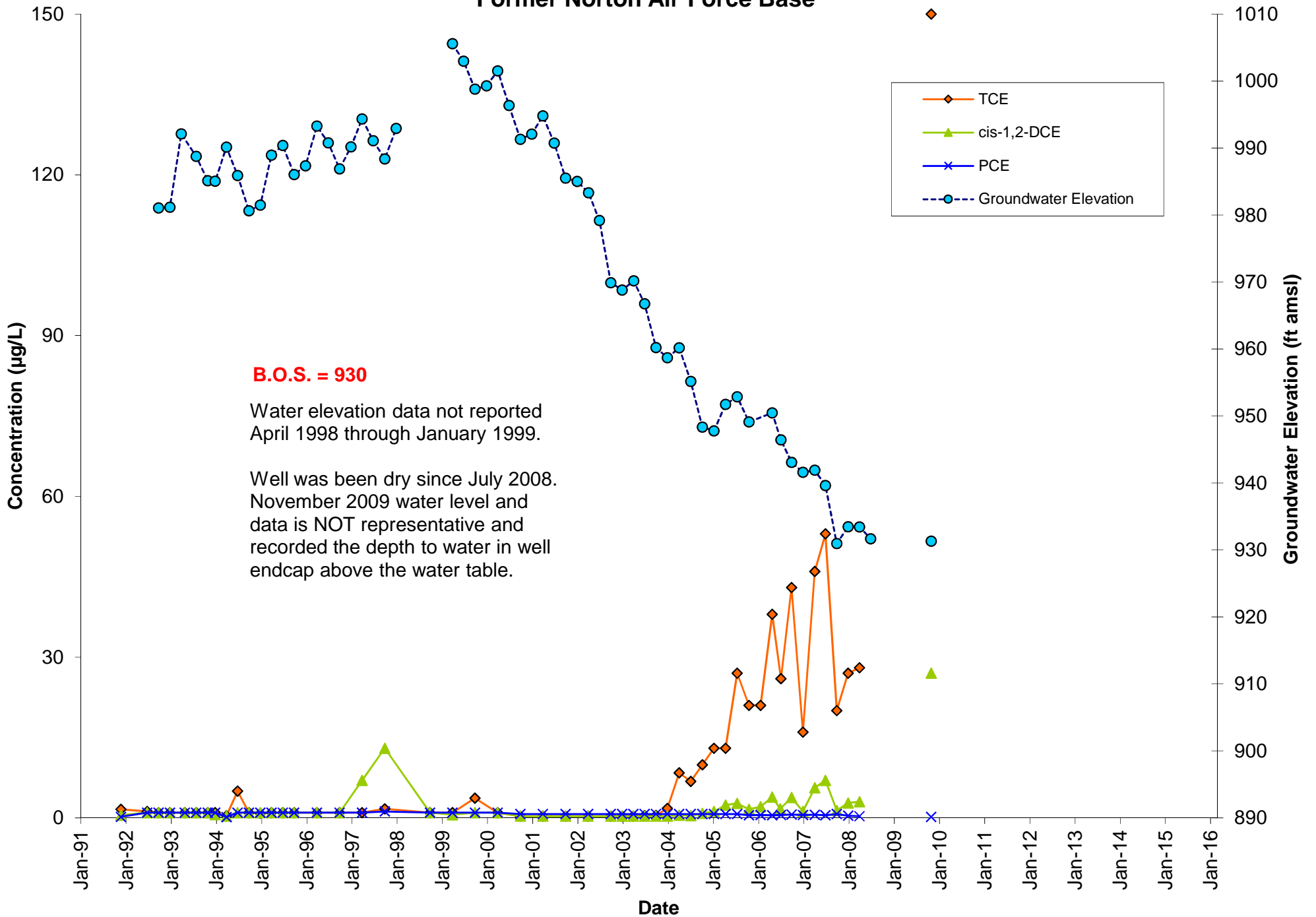
Former Norton Air Force Base



Groundwater Elevation and Contaminant Concentration vs. Time

CBA B-Level Well MW215

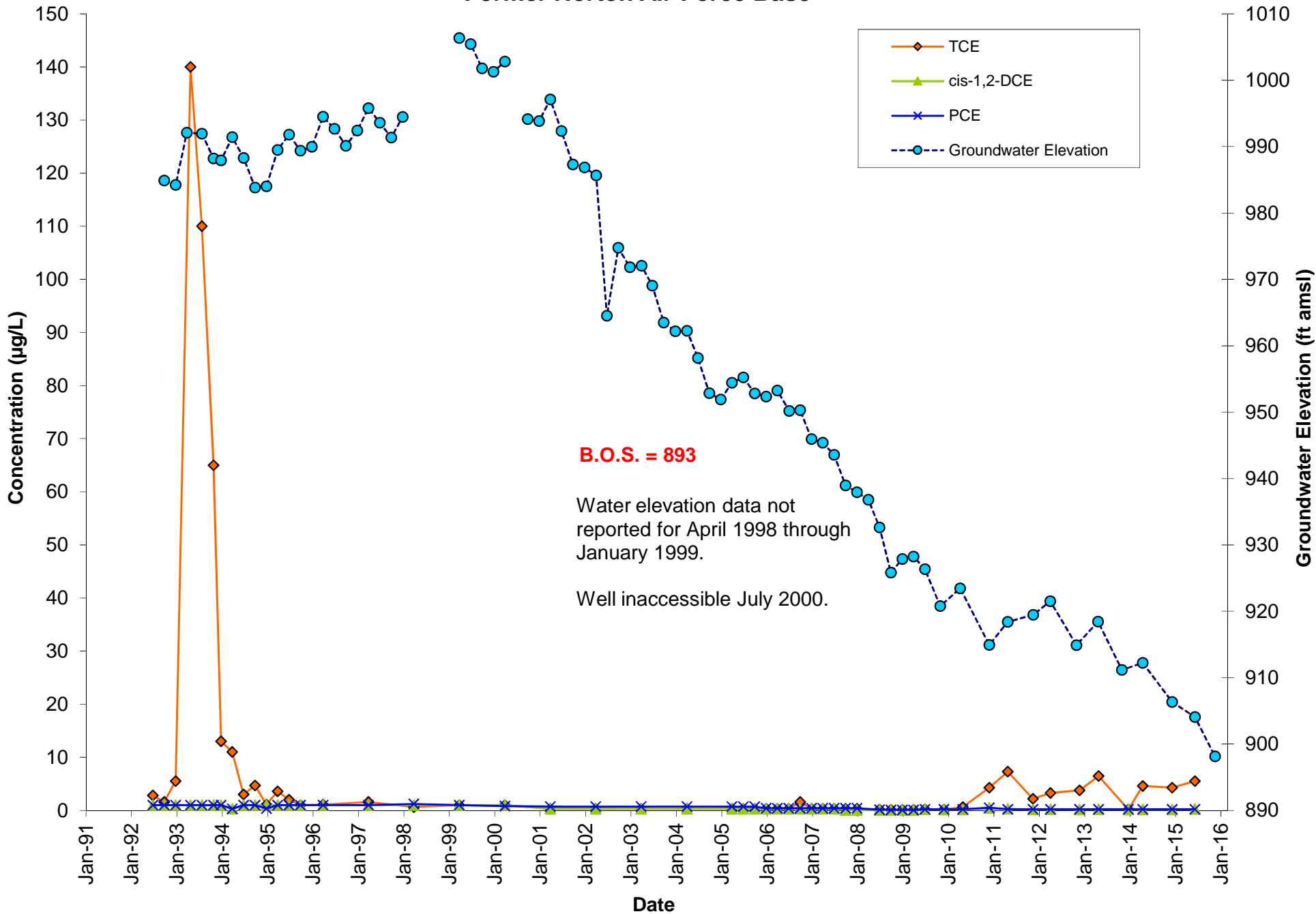
Former Norton Air Force Base



Groundwater Elevation and Contaminant Concentration vs. Time

CBA C-Level Well MW261

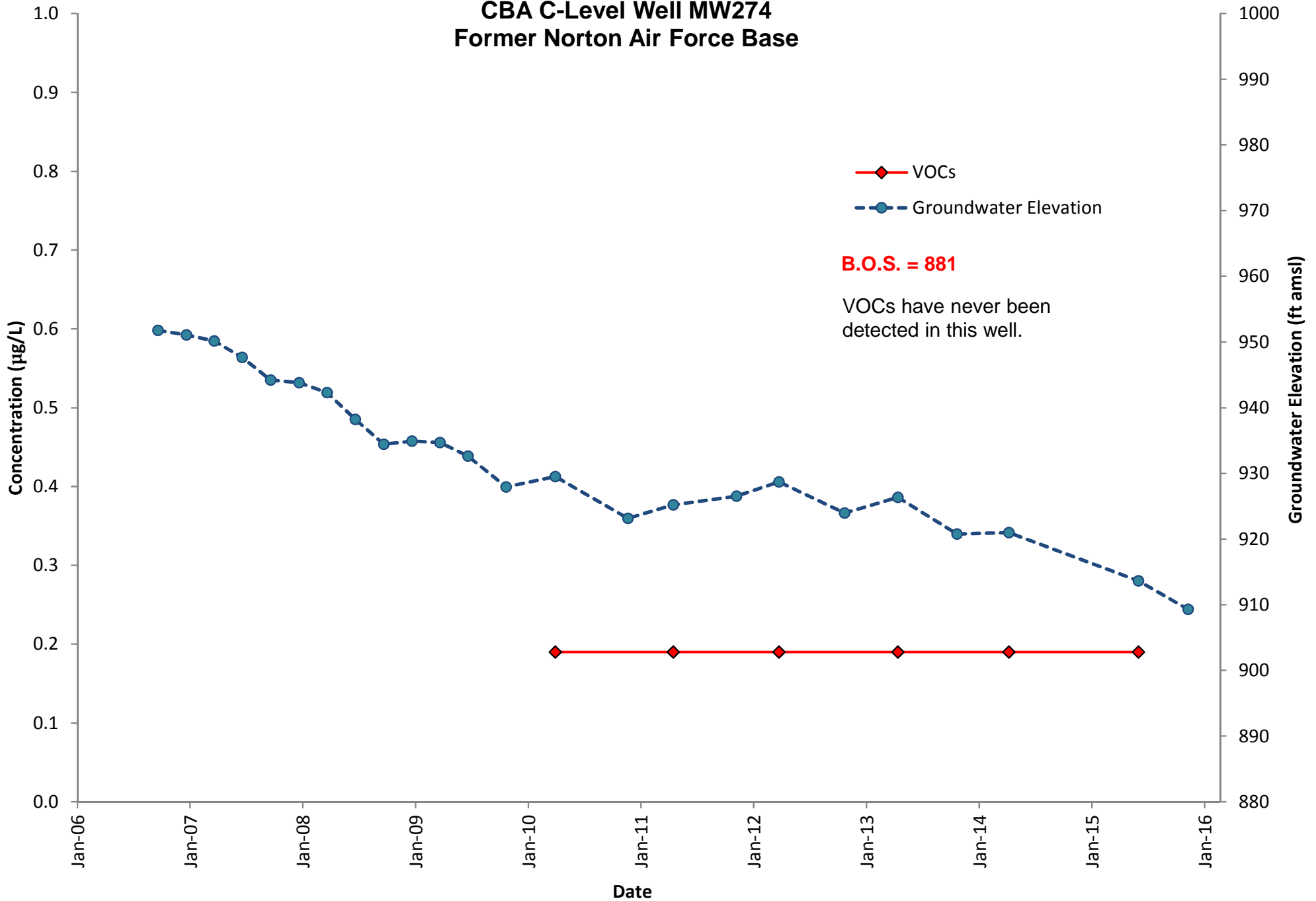
Former Norton Air Force Base



Groundwater Elevation and Contaminant Concentration vs. Time

CBA C-Level Well MW274

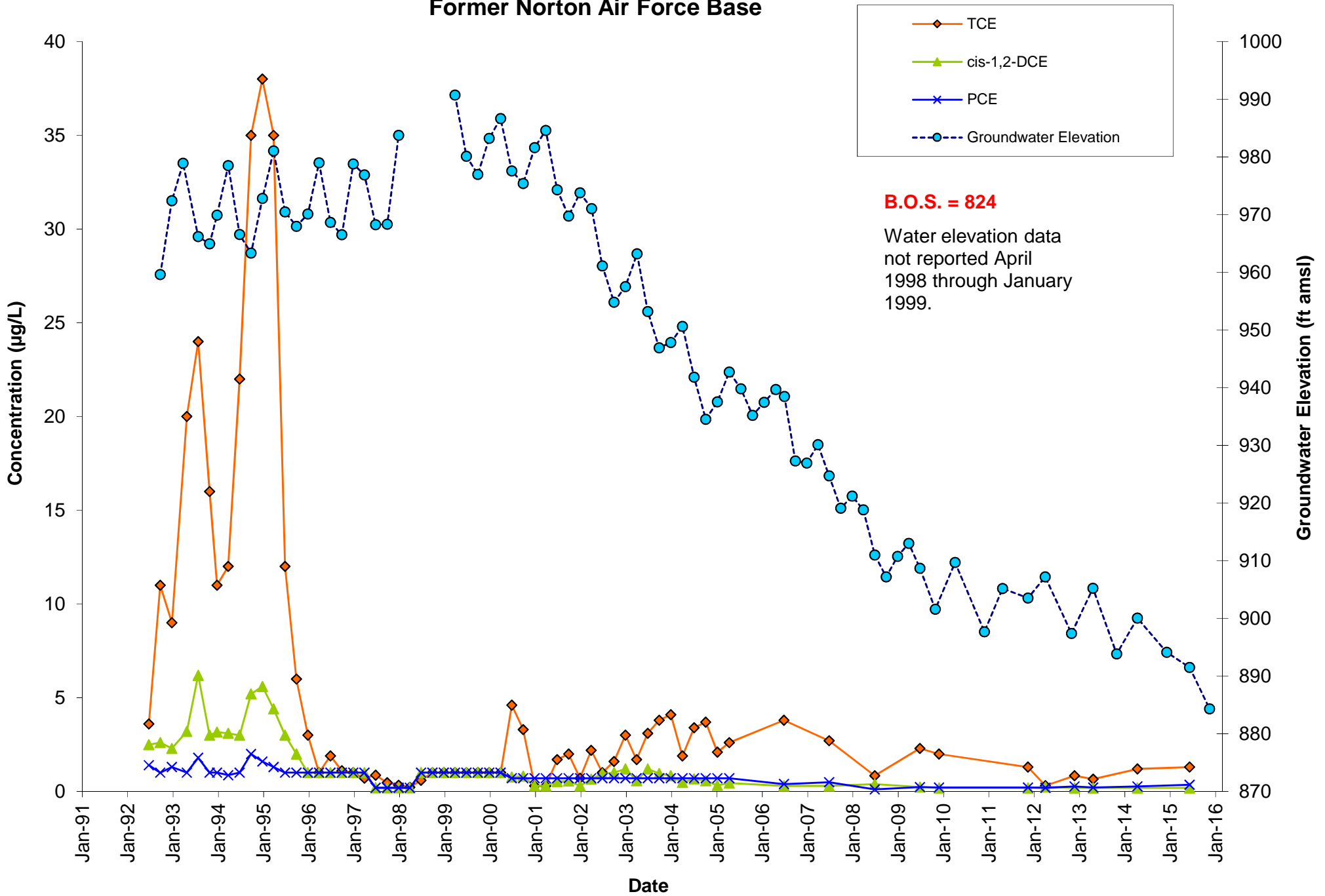
Former Norton Air Force Base



Groundwater Elevation and Contaminant Concentration vs. Time

CBA D-Level Well MW289

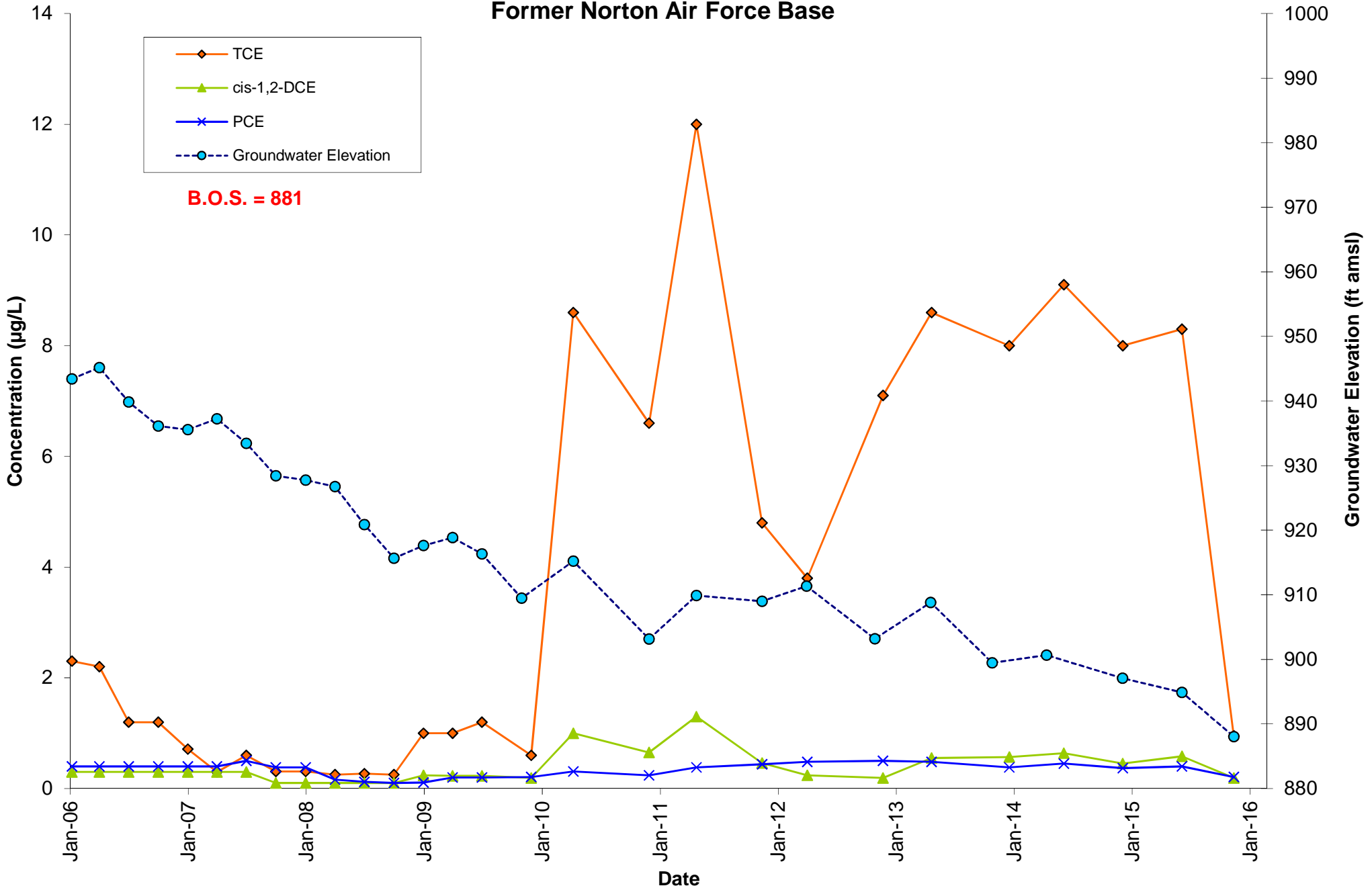
Former Norton Air Force Base



Groundwater Elevation and Contaminant Concentration vs. Time

CBA C-Level Well MW401

Former Norton Air Force Base



**Former Norton Air Force Base
San Bernardino, California**



**IRP Site 2 Landfill Operations, Maintenance, and Monitoring
2015 Annual Report**

Final

Contract No. FA4890-06-D-0007

Task Order No. 0006

**Prepared for
Air Force Civil Engineer Center
Joint Base San Antonio, Lackland, TX 78236-9853**

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February 2016

Final

**IRP Site 2 Landfill
Operations, Maintenance,
and Monitoring**

2015 Annual Report

**Former Norton Air Force Base
San Bernardino, California**

Prepared for
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Acronyms and Abbreviations

ACP	<i>Rule 1150.1 Alternative Compliance Plan for IRP Site 2 Former Landfill Closure, Norton Air Force Base, California</i>
AFB	Air Force Base
CCR	California Code of Regulations
CDM	Camp Dresser & McKee Federal Programs Corporation
CPCMP	<i>Final IRP Site 2 Landfill Closure and Postclosure Plan, Norton Air Force Base, California</i>
CPCMP Addendum 2	<i>IRP Site 2 Landfill Closure/Post-Closure Maintenance Plan Addendum 2, Former Norton Air Force Base, San Bernardino, California</i>
CPCMP Addendum	<i>Closure Plan/Post-Closure Maintenance Plan Addendum, IRP Site 2 Landfill, Former Norton Air Force Base, San Bernardino, California</i>
EPA	U.S. Environmental Protection Agency
FID	flame ionization detector
FSP	field sampling plan
IC	institutional control
IRP	Installation Restoration Program
IT	IT Corporation
LF-2	IRP Site 2 Landfill
LFG	landfill gas
OM&M Plan	<i>Final Operating, Monitoring, and Maintenance Plan, IRP Site 2 Landfill Closure, Former Norton AFB Landfill</i>
ppmv	part(s) per million by volume
RWQCB	Regional Water Quality Control Board
SBIAA	San Bernardino International Airport Authority
SCAQMD	South Coast Air Quality Management District
scfm	standard cubic feet per minute
TAC	toxic air contaminant
TGNMOC	total gaseous non-methane organic compounds as methane
TOC	total organic compound
VOC	volatile organic compound
WW	Weather Warehouse

SECTION 1

Introduction

1.1 Introduction

This report documents the results of inspections, monitoring, maintenance, and operations of the Installation Restoration Program (IRP) Site 2 Landfill (LF-2) from January to December 2015. During 2015, tasks were performed to address post-closure requirements at LF-2 in accordance with applicable regulations and the following documents:

- *Final IRP Site 2 Landfill Closure and Postclosure Plan, Norton Air Force Base, California (CPCMP) (IT, 1998)*
- *Final Closure Report for Installation Restoration Program Site 2 Landfill Closure (Bechtel Environmental, Inc. 1999)*
- *Final Operating, Monitoring, and Maintenance Plan, IRP Site 2 Landfill Closure, Former Norton AFB Landfill (OM&M Plan, which includes the Field Sampling Plan [FSP]) (IT, 1999)*
- *Closure Plan/Post-Closure Maintenance Plan Addendum, IRP Site 2 Landfill, Former Norton Air Force Base, San Bernardino, California (GeoLogic, 2007)*
- *Rule 1150.1 Alternative Compliance Plan for IRP Site 2 Former Landfill Closure, Norton Air Force Base, California (ACP) (Earth Tech, 2001; SCAQMD, 2011)*
- *IRP Site 2 Landfill Closure/Post-Closure Maintenance Plan Addendum 2, Former Norton Air Force Base, San Bernardino, California (CPCMP Addendum 2) (CH2M HILL, 2014)*

This section provides a brief overview of the site background and organization of this report.

1.2 Background

The former Norton Air Force Base (AFB) is situated near the eastern end of the San Bernardino Valley in San Bernardino County, California (Figure 1-1) and includes approximately 2,200 acres of contiguous property. The former base is approximately 65 miles east of Los Angeles, 50 miles west of Palm Springs, and 5 miles north of the San Bernardino–Riverside county line. The Santa Ana wash forms the southern boundary of the former base.

LF-2 is a closed landfill located in the northeastern portion of the former base, as shown on Figure 1-2. LF-2 operated as the main landfill for the base from 1958 to 1980. The landfill accepted general refuse, demolition debris, and industrial waste that may have included spent solvent, acid, refrigerant, paint stripper, paint thinner, waste oil, and sludge. The site operated as a trench-and-fill-type landfill, with waste placed in trenches dug into the preexisting surface to approximately 20 feet. The landfill contains an estimated 640,000 cubic

yards of waste. Previous investigations indicated that approximately 1 to 3 feet of native material was placed over the waste in the filled trenches (CDM, 1994).

LF-2 was closed in accordance with California Code of Regulations (CCR) Title 27 requirements as documented in the IRP Site 2 Landfill Closure Report (Bechtel Environmental, Inc., 1999). Consolidation into a smaller footprint (approximately 22.4 acres) and construction of the natural soil landfill cover, surface drainage, and gas collection/control systems were completed as a Removal Action in December 1998. The original landfill cover comprised a 2-foot-thick foundation layer and a 4-foot-thick vegetative cover. The landfill gas (LFG) collection and control system consists of 45 vertical and horizontal extraction wells, lateral and header pipes, blower system, and an enclosed ground flare. An LFG perimeter monitoring system consisting of monitoring probes at shallow, medium, and deep levels along the northern and western edges of the landfill perimeter were installed to monitor subsurface LFG lateral migration. Groundwater monitoring wells were also installed as part of the landfill post-closure monitoring systems. Figure 1-3 shows the groundwater and LFG monitoring points. Based on the completed landfill closure, the Basewide Record of Decision (Earth Tech, 2005) established a selected remedy for LF-2 of institutional controls (ICs) and continued operations, maintenance, and monitoring as specified in the existing, regulator-approved OM&M Plan (IT, 1999). The Record of Decision-specified ICs were implemented as deed restrictions that run with the land when the property was transferred to the San Bernardino International Airport Authority (SBIAA) in 2007.

An addendum to the LF-2 CPCMP dated October 2007 (GeoLogic, 2007) was prepared and finalized to address operations and maintenance requirements accompanying a change in the cover to an asphaltic concrete parking lot. In March 2010, the SBIAA completed construction of the asphalt parking lot on top of LF-2 (Figure 1-3). With the completion of the parking lot, the elements of the CPCMP addendum have been implemented. The SBIAA is responsible for parking lot inspection and upkeep and would address any effects that the parking lot may have on the landfill. The parking lot is currently used for truck parking and container storage. As part of the parking lot construction effort, all neutron probes were removed. The neutron probes had not been used for neutron probe moisture monitoring since the Santa Ana Regional Water Quality Control Board (RWQCB) eliminated the requirement on October 11, 2005.

In December 2011, a mobile blower unit was brought onsite and plumbed into the existing system. The original blower was malfunctioning and was no longer cost effective to repair. In 2012, the mobile unit became a permanent addition to the existing LFG collection system.

A second addendum to the LF-2 CPCMP was prepared in May 2014 (CH2M HILL, 2014) and adopted in June 2014. The addendum recommended reducing the monitoring frequency and shutting off the LFG collection system during the cold winter months when methane generation was generally low. Between April and November 2015, the collection system was operational for approximately 83 percent of the time and maintained methane concentrations in compliance with regulatory limits.

1.3 Report Organization

This report is organized in the following sections:

- **Section 1: Introduction** provides a brief overview of the site background and organization of this report.
- **Section 2: Landfill Compliance Monitoring** provides data presentation and discussion of groundwater monitoring, LFG monitoring, and weather data collected in 2015.
- **Section 3: Landfill Inspections and Maintenance** provides a summary of the landfill area inspection results, maintenance of the LFG collection system, and water system.
- **Section 4: Landfill Gas Production** provides a discussion of LFG production during 2015.
- **Section 5: Conclusions and Recommendations** presents the conclusions of this report and summarizes proposed operations, monitoring, and maintenance activities.
- **Section 6: References** provides information regarding the references that were used to prepare this report.
- **Appendix A: Instantaneous and Integrated Landfill Surface Monitoring Field Records**
- **Appendix B: Integrated Landfill Surface Monitoring and Ambient Air Analytical Results**
- **Appendix C: Perimeter Probe Monitoring Field Records**
- **Appendix D: Perimeter Probe and Header Analytical Results**
- **Appendix E: County of San Bernardino Local Enforcement Agency Inspection Reports**
- **Appendix F: CH2M HILL Semiannual Inspection Reports**
- **Appendix G: San Bernardino International Airport Authority (SBIAA) Semiannual Inspection Reports**
- **Appendix H: Landfill Gas Collection System Field Records**
- **Appendix I: Backflow Preventer Test Report**

Landfill Compliance Monitoring

2.1 Groundwater Monitoring

The requirements for LF-2 groundwater monitoring are described in the CPCMP (IT, 1998). Figure 1-3 shows the groundwater point of compliance wells. The original six landfill compliance monitoring wells (MW-235, MW-244, MW-246, MW-252, MW-259, and MW-294) had gone dry by January 2003 and were decommissioned in October 2008. Replacement compliance monitoring wells (MW-402 and MW-403) and an upgradient well (MW-404) were installed in 2005. In the *Fourteenth Annual Groundwater Data Trends Report* (Earth Tech, 2007), the Air Force recommended that LF-2 compliance groundwater monitoring be terminated. The RWQCB approved the Air Force's recommendation in October 2007, and no further sampling of the point of compliance network took place after the January 2008 sampling round. However, RWQCB requested that the three wells be retained in case they are needed to monitor for potential impacts from the paved landfill cover.

During the second and fourth quarter 2015 basewide groundwater monitoring events, MW-402 and MW-404 were dry. The MW-403 water levels have increased slightly over the last three monitoring events. It is possible there is an isolated source of water near MW-403 such as recharge from the stormwater basin or a leaking water line. However, the amount of water within MW-403 has been insufficient to collect a sample. MW-402, MW-403, and MW-404 will continue to be measured semiannually for water levels as part of the groundwater monitoring program. If sufficient water is present, representative samples will be collected and analyzed for those constituents identified for the CPCMP (IT, 1998) 5-year event. The constituents to be analyzed include volatile organic compounds (VOCs), semivolatile organic compounds, metals, anions, pesticides, herbicides, polychlorinated biphenyls, pH, and total dissolved solids.

2.2 Landfill Gas Compliance Monitoring

The requirements for an LFG monitoring program, as specified in Rule 1150.1 (SCAQMD, 2011), the FSP (a component of the OM&M Plan [IT, 1999] that was updated with the ACP), the ACP (Earth Tech, 2001), and the recently updated CPCMP Addendum 2 (CH2M HILL, 2014) include the following elements:

- Annual instantaneous air sampling over 50,000-square-foot-grid areas using a flame ionization detector (FID)
- Annual integrated air sampling over the same grid pattern as for instantaneous air sampling for potential fixed-laboratory analyses
- Semiannual perimeter probe field monitoring
- Annual perimeter probe sampling and analysis

- Annual header sampling and analysis
- Annual ambient air sampling over two 12-hour periods for laboratory analysis

Figure 1-3 shows the locations of the perimeter probes and header sample points.

2.2.1 Integrated Landfill Surface Gas Monitoring

In accordance with the CPCMP Addendum 2 (CH2M HILL, 2014), the annual integrated landfill surface emissions monitoring was conducted on June 10, 2015. During the monitoring event, the landfill cap was staked along the fence line and marked with spray paint to identify 29 grid squares representing up to 50,000 square feet each (Figure 2-1). The landfill cap is currently being used for truck parking and container storage. Sampling technicians traversed the 29 grid squares, where accessible, and collected air samples in 10-liter Tedlar bags over a 25-minute period using the stainless steel funnel-and-pump system suggested by Rule 1150.1 (SCAQMD, 2011). The pumps are set with flow meters to collect 0.333 liter of vapor per minute. Once filled, the Tedlar bags are placed in boxes to protect them from sunlight. In accordance with the FSP, all of the Tedlar bags were analyzed with a Thermo TVA1000B toxic vapor analyzer photoionization detector/FID calibrated to methane for total organic vapors. Figure 2-1 presents the FID readings. Wind direction and speed were recorded during integrated sampling on a strip chart. In accordance with Rule 1150.1 (SCAQMD, 2011), two samples were collected for fixed-laboratory analysis for total organic compounds (TOCs), total gaseous non-methane organic compounds as methane (TGNMOC), and toxic air contaminants (TACs) listed in Table 1 of Rule 1150.1, Attachment A. Typically, the two samples with highest FID readings are submitted for fixed-laboratory analysis; when multiple grids contain the same higher FID readings, a random sample is selected. Appendixes A and B present the field records and analytical results. Table 2-1 presents the laboratory analytical results for integrated LFG samples from Grids 13 and 18.

Grid 13 is located on the upwind west side of the landfill cap. The integrated air sample analytical results for Grid 13 show methane and VOC concentrations of the same magnitude as the ambient air samples (see Section 2.2.5). This indicates that the Grid 13 integrated sampling likely detected background gases, not LFG emanating from the cap.

Grid 18 is located on the downwind east side of the landfill cap. The integrated air sample analytical results for Grid 18 show methane and VOC concentrations at approximately one magnitude greater than the ambient air samples. This indicates that some LFG is likely emanating from the cap within Grid 18; however, methane and TGNMOC concentrations are low.

2.2.2 Instantaneous Landfill Surface Gas Monitoring

In accordance with the CPCMP Addendum 2 (CH2M HILL, 2014), annual instantaneous landfill surface emissions monitoring was conducted on June 10, 2015. Sampling technicians traversed the same 29 grid squares using the same pattern as that used for the integrated sampling, in accordance with Rule 1150.1 (SCAQMD, 2011), with an FID calibrated to methane. FID readings were consistently at or less than 3.6 parts per million by volume (ppmv) total organic vapors for all grids. No instantaneous readings over the 500-ppmv

sampling threshold level of Rule 1150.1 were observed. FID readings are presented on Figure 2-2 as well as in a table in Appendix A.

2.2.3 Perimeter Probe Gas Monitoring

On June 10, 2015, and January 12, 2016, perimeter monitoring wells SW-1, SW-2, SW-3, SW-11, SW-12, SW-13, and SW-14 (Figure 2-1) were monitored on a semiannual basis in accordance with Rule 1150.1 (SCAQMD, 2011) and the CPCMP Addendum 2 (CH2M HILL, 2014) that recommended June/July and December/January monitoring periods. The June 2015 monitoring event was collected at the peak of the methane generation. The January 2016 monitoring event was collected when methane generation was at its lowest and while the LFG collection system was offline. The perimeter wells were monitored using a Landtec GEM-2000, which is a field instrument designed and calibrated specifically for monitoring the LFG compounds methane, carbon dioxide, oxygen, and balance air. Each monitoring well consists of three nested probes screened at the following intervals: 8 to 13 feet below grade, 20 to 25 feet below grade, and 44 to 49 feet below ground surface. Methane was not detected in any of the perimeter well samples; therefore, the perimeter LFG monitoring well locations met the compliance level of 5 percent by volume. Table C-1 in Appendix C presents the perimeter probe monitoring results.

The annual perimeter probe sampling was collected on June 10, 2015, for fixed-laboratory analysis of TOCs, TGNMOC, and TACs listed in Table 1 of Rule 1150.1, Attachment A (SCAQMD, 2011). Because methane concentrations from field readings were non-detect in the perimeter probes, SW-11c was selected to be sampled. In addition, a field duplicate sample was collected from perimeter probe SW-11c. Methane was not detected in any of the analytical samples. Laboratory analytical results are presented in Appendix D. The analytical results for the 2015 perimeter probe monitoring are summarized in Table 2-2.

On June 10 and October 28, 2015, inspections of LF-2 were conducted by the County of San Bernardino Department of Public Health as the local enforcement agency. Methane levels in all perimeter LFG monitoring wells measured during the June inspection were less than compliance levels. The inspection reports are presented in Appendix E.

2.2.4 Landfill Gas Sampling from Collection System

In accordance with the ACP (Earth Tech, 2001), annual header sampling was conducted on June 10, 2015. An LFG sample was collected from the influent header (pre-dilution valve) of the LFG collection system over a 6-minute period in a 6-liter summa canister. The samples were sent to a certified laboratory for analysis of the TOCs, TGNMOC, and TACs listed in Table 1 of Rule 1150.1, Attachment A (SCAQMD, 2011). Table 2-3 and Appendix D present the analytical results. The analytical data collected is used to evaluate the emissions from the landfill.

As shown in Table 2-3, methane was detected at a concentration of 2.04 percent. The TGNMOC concentration was reported at 9.8 ppmv. The annual header sample results indicate compliance with the 20 ppmv TGNMOC as hexane emission limitation of Rule 1150.1 (SCAQMD, 2011) (see Section 2.3).

2.2.5 Ambient Air at Landfill Perimeter Monitoring

In accordance with the ACP (Earth Tech, 2001), ambient air sampling is conducted annually at LF-2. Ambient air sampling is performed by simultaneously collecting sets of cumulative

air samples from designated sampling points located at upwind and downwind points of the landfill (Figure 2-2), based on the historic predominant wind directions in the area. Two sets of ambient air samples were collected over two 12-hour periods, in accordance with Rule 1150.1 (SCAQMD, 2011): two samples at the west perimeter of the landfill (Location AA-1) and the other two samples at the east perimeter (Location AA-2). One sample set was collected from 9:00 a.m. to 9:00 p.m. on June 9, 2015, and another set was collected from 9:00 p.m. on June 9 to 9:00 a.m. on June 10, 2015. Wind speed and direction recorded during ambient sampling met the criteria specified in the ACP (Earth Tech, 2001). All ambient samples were collected in 10-liter Tedlar bags and sent to a fixed laboratory for analysis of the TOCs, TGNMOC, and TACs listed in Table 1 of Rule 1150.1, Attachment A (SCAQMD, 2011).

The predominant wind direction for the 24-hour period (9:00 a.m. on June 9 to 9:00 a.m. on June 10) was from the west-northwest or west-southwest at an average speed of 2.3 miles per hour, with the maximum wind speed of 3 miles per hour. The wind direction shifted slightly, blowing from the north-northwest for less than 20 percent of the time. As shown on Table 2-4, the analytical results from the AA-1 (west) and AA-2 (east) sets of ambient air samples show equivalent concentrations that are independent of the wind direction and represent background levels, not emissions from the cap. TGNMOC was detected in three of the four samples with concentrations ranging from 3.4 J ppmv to 4.8 J ppmv. Field records of wind speed and direction are presented in Appendix A, and ambient air analytical results are presented in Appendix B.

2.3 Combustion Efficiency and Gas Treatment Monitoring

Between January 2000 and December 2007, methane concentrations measured in deep perimeter probe SW-11c, located at the southwestern corner of the landfill, were frequently greater than the 5 percent compliance threshold limit despite well field tuning efforts. In January 2008, the flare burner was deactivated as part of a remedial action test to determine whether maximizing vapor draw from the extraction wells could successfully reduce the methane concentration in perimeter probe SW-11c to less than the 5 percent threshold limit. As part of the evaluation of this test, a risk assessment was performed to establish whether the untreated emissions represented an insignificant health risk as defined by Rule 1150.1 (SCAQMD, 2011). Based on the risk assessment presented in the *10th Annual 2008 Report of Operations, Monitoring, and Maintenance for IRP Site 2* (Earth Tech, 2009), the discharge of uncombusted LFG into the atmosphere from the LF-2 gas collection and control system using 2008 data was found to be an insignificant health risk.

In 2015, the LFG collection system was scheduled to be restarted in March, per the CPCMP Addendum 2 (CH2M HILL, 2014); however, because of an electrical issue, the system was not restarted until April 22. The methane concentrations and the LFG flow rate were less than those used for the 2008 risk assessment. The methane concentration at the system header ranged from 1.1 to 3.2 percent between April and November, and the LFG flow rate ranged from 88 to 93 standard cubic feet per minute (scfm). Based on 2015 data, the continued discharge of uncombusted LFG into the atmosphere remains an insignificant health risk.

In November 2015, the methane concentration at the system header decreased to 1.1 percent. This decrease follows the historical cycle where methane generation decreases during the cooler winter season. In accordance with the CPCMP Addendum 2 (CH2M HILL, 2014), the LFG control system was shut down on November 20, 2015. In January 2016, field readings were collected from the perimeter wells and no methane was detected. An additional round of field readings will be collected from the perimeter wells in February 2016 to ensure that no methane is migrating to the perimeter wells. If methane concentrations remain low in the perimeter wells, the LFG collection system will remain offline through February 2016 and restart in March 2016, when temperatures and methane generation are expected to begin to increase.

Rule 1150.1 (SCAQMD, 2011) specifies that LFG control systems either reduce TGNMOC by at least 98 percent destruction removal efficiency by weight or reduce TGNMOC concentration to less than 20 ppmv dry basis as hexane at 3 percent oxygen. This TGNMOC value is calculated to compensate for the effect of supplemental air added to an LFG control system that uses flare combustion as a control method. At present, the flare is not operating; therefore, no supplemental air and no supplemental fuel gas are being used. Therefore, the use of the 3 percent oxygen correction factor is not appropriate for meeting the 20 ppmv as hexane requirement of Rule 1150.1, Section (d) I (i) (SCAQMD, 2011). Instead, a direct conversion from ppmv as methane to ppmv as hexane is used to determine whether the criteria of SCAQMD Rule 1150.1, Section (d) I (i), is being met.

The TGNMOC for LFG samples collected at LF-2 is determined by U.S. Environmental Protection Agency (EPA) Method 25C-modified. Per Code of Federal Regulations, Title 40, Section 60.754 Test Methods and Procedures, TGNMOC reported as carbon (methane) in ppmv determined by Method 25C is converted to TGNMOC as hexane ppmv by dividing the carbon ratio between methane and hexane, which is 6. The LFG stack sample collected on June 10, 2015, was used to determine whether the 20-ppmv TGNMOC criterion is being met. The fixed-laboratory results for the header sample reported TGNMOC at a concentration of 9.8 ppmv, which converts to TGNMOC as hexane at a concentration of 1.6 ppmv. The current operation of the collection system meets the 20 ppmv TGNMOC as hexane emission requirements of Rule 1150.1, Section (d) I (i) (SCAQMD, 2011).

2.4 Weather Records

The OM&M Plan (IT, 1999) requires that special inspections and measurements be performed whenever a significant rainfall event occurs (defined as 2 or more inches of rainfall during a 24-hour period). According to Weather Warehouse (WW), which compiles data from the National Weather Service, the weather station located at the Ontario International Airport (COOP ID 046457) and the Redlands meteorological station (COOP ID 047306) did not receive more than 2 inches of rainfall during any single 24-hour period in 2015. The maximum rainfall in Redlands during any 24-hour period was 0.82 inches in September 2015 (WW, 2016). The Ontario International Airport weather station is located approximately 20 miles west of the former Norton AFB, while the Redlands meteorological station is located approximately 4 miles to the southeast of the former Norton AFB.

Landfill Inspections and Maintenance

3.1 Landfill Inspection Results

In accordance with the CPCMP (IT, 1998), semiannual landfill inspections were performed by CH2M HILL (July and November 2015) and SBIAA (April and October 2015) that included drainage system monitoring, vegetation maintenance, and security controls maintenance. Inspections included maintenance of groundwater monitoring wells and LFG monitoring probes. Inspection forms detailing these activities are included in Appendixes F and G and are summarized below:

- The drainage system was maintained in accordance with 27 CCR 21090(c)(4) by visually inspecting the site channels for siltation and other damage. SBIAA scraped and swept the dirt, sand, and debris from the drainage ditch and disposed of the waste offsite in September. There were no other issues with the concrete drainage ditch on the northwest corner of LF-2.
- Security control maintenance included inspection of fencing and gates for evidence of structural damage, vandalism, and missing parts. The west gate, gate operator, and pulley were damaged when it was struck by a truck on September 21; SBIAA repaired the operator and gate on the same day.
- Semiannual inspection of groundwater monitoring wells and inspection of LFG monitoring probes included opening the protective surface casing and inspecting for damage in the well riser or the steel pipe, the surface protective casing, and the concrete surface pad. Several monitoring well locks were cut in July 2014 because they were rusted shut. The locks were replaced by CH2M HILL in first quarter 2015. The CH2M HILL inspections noted vegetation and weeds around some of the wells, which need to be removed. No other damage or necessary repairs were noted in the inspection forms.
- Some evidence of burrowing animals was observed near the well vaults during a site visit in August. These areas were filled in with the dirt.
- The vegetation, including volunteer trees, along the northern drainage ditch was removed in January, April, August, and September, as noted in the SBIAA inspection forms.
- In the northeast corner of LF-2, two trees were cut down and removed by CH2M HILL in November.
- The SBIAA has conducted periodic inspections of the asphalt pavement parking lot cap. Several cracks were observed in April and June. The cracks were cleared of dirt and sand and filled with Sikaflex self-leveling sealant.

- The SBIAA also conducted an annual IC evaluation and found no violations. The inspection report cover letter is included in Appendix G.

3.2 Landfill Gas Collection System Tuning and Maintenance

The well field includes the LFG collection wells and trenches, the sumps, the manifold piping and valves, vault boxes, and the blower. Maintenance of the well field was performed as needed.

In 2011, the LFG collection system was tuned to meet methane compliance levels in LFG monitoring probes SW-11c and SW-12c. The valves on the vertical extraction wells located on the northern and eastern sides of the landfill were partially closed, and several horizontal extraction wells were fully closed to maximize extraction from the vertical extraction wells on the western side of the landfill, where SW 11c and SW 12c are located. This configuration remained in effect for 2015.

During 2015, the LFG collection system was scheduled to be restarted in March; however, because of electrical issues, the system was not restarted until April 22. The system shut down several times between August and November for unknown reasons, but likely because of power outages. Between April and November 2015, the LFG collection system was operational for approximately 83 percent of the time. On November 20, the LFG collection system was shut down during the cool winter months in accordance with according to the CPCMP Addendum 2 (CH2M HILL, 2014). The LFG collection system is scheduled to be restarted in March 2016. Appendix H presents the LFG collection system field records.

No modifications were performed at the wells or trenches; however, water was observed within the sumps during the year. In July 2015, approximately 325 gallons of water was pumped out using a monsoon pump and transferred to the storage container at the LFG control system and allowed to evaporate.

The extraction wells were not monitored or tuned in 2015.

3.3 Flare Station Maintenance

After January 21, 2008, the flare burner was shut down; therefore, operation and maintenance of supplemental fuel gas, flue controls, and the control panel have been suspended.

3.4 Water System Maintenance

The SBIAA is responsible for maintaining and testing the backflow preventer at the domestic water utility service line inlet to the LF-2 because a continued supply of domestic water to LF-2 is no longer required. SBIAA will maintain the domestic water supply to LF-2 to irrigate landscaping along the northern edge of the landfill. The backflow test was performed by certified test contractor East Valley Water District on November 30, 2015 (see Appendix I). One of the check valves leaked; therefore, the valves were cleaned and the discs/washers were replaced. The backflow test was performed a second time and successfully passed.

3.5 Settlement Monitoring

As specified in the CPCMP (IT, 1998), settlement monitoring is required every 5 years at LF-2. An evaluation of settlement monitoring was completed in May 2009 and was reported in the *Informal Technical Information Report, April – June 2009 Landfill Gas Monitoring Data* (AECOM, 2009). Because of construction of the asphaltic concrete pavement cap in 2010, the CPCMP Addendum (GeoLogic, 2007) required that existing settlement monuments be protected in place during construction activities and that the existing monuments be surveyed before, after, and 1 year after construction activities. The settlement monuments were surveyed on March 15 and June 22, 2010, and again on June 22, 2011. The results show minimal settlement during the construction of the asphalt cap, with the maximum settlement of 0.05 foot from Monument 1 (the easternmost monument). One year following the completion of the asphalt cap, minimal settlement was observed, with the maximum settlement being 0.02 foot. The results of the settlement monitoring events can be found in the *Operations, Maintenance, and Monitoring 2011 Annual Report* (CH2M HILL, 2012).

Future settlement monitoring will be performed at 5-year intervals, with the next event occurring in 2016. Additional settlement monitoring may be necessary if significant settling is noted or if significant cracking of the asphalt is observed.

SECTION 4

Landfill Gas Production

As part of the design criteria for the LFG flare station (IT, 1999), the amount of LFG potentially generated was estimated using EPA's landfill air emission estimation model (EPA, 1996). Based on results of the model, the collection and control system was designed to accommodate 31 scfm of methane, equal to approximately 110 scfm of LFG at 30 percent methane.

The LFG collection system has been operating with the flare burner turned off since January 21, 2008. LFG draw from the well field is adjusted to the maximum capacity of the LFG collection and control blower system. The average flow rate for the LF-2 LFG collection system in 2015 was approximately 90 scfm of LFG with an approximate methane concentration of 1.8 percent (post-dilution valve) from the emissions stack. Appendix H presents the bi-monthly LFG extraction field records.

The current operation of the LFG collection system is intended to keep the landfill perimeter probes in compliance with the regulatory threshold limit of 5 percent by volume methane. The current low methane content in the LFG may be attributed to consistent extraction and venting of the methane generated. The existing blower system keeps the landfill in compliance with the provisions of Rule 1150.1 (SCAQMD, 2011) and CCR Title 27 without the need for an operating flare burner or supplemental gas.

SECTION 5

Conclusions and Recommendations

During the 2015 monitoring events, methane was not detected at levels greater than the regulatory limits in the instantaneous and integrated air monitoring nor in any of the landfill perimeter probes. The emission requirements of the LF-2 gas collection and control system are currently being met without operating the flare. Continued operation of the LFG collection system without the use of the flare burner or supplemental gas is recommended. Methane levels in the landfill perimeter probes and in the LFG header will continue to be monitored to ensure that compliance is maintained.

Monitoring activities and maintenance will continue to be conducted according to the Final OM&M Plan (IT, 1999), ACP (Earth Tech, 2001), and CPCMP Addendum 2 (CH2M HILL, 2014). Any additional revisions to monitoring activities will be proposed to regulatory agencies in an addendum to the Final OM&M Plan. The paved parking lot will control flow of surface water on the top of the cap from rainfall and will reduce the potential for soil erosion and the presence of burrowing animals. Compliance groundwater monitoring wells MW-402, MW-403, and MW-404 will continue to be checked during the annual Norton groundwater sampling event for potential water level measurements. Water was detected in MW-403 in 2015; however, there was insufficient water to collect a sample. If there is sufficient water present in second quarter 2016, MW-402, MW-403, and MW-404 will be sampled for detection monitoring parameters and Code of Federal Regulations, Title 40, Section 258, Appendix II constituents of concern. Perimeter probe methane monitoring will continue on a semiannual basis with annual perimeter probe sampling. Instantaneous and integrated surface emission monitoring will continue on an annual basis. Annual header and ambient air sampling will continue to be conducted. Monthly inspections of the LFG collection system will continue to be conducted, except from December through February, when the system is shut down during the cool winter months. Detailed site inspections will be conducted semiannually and after major rain events, earthquakes, wind storms, or fires. Maintenance will be performed as needed to ensure the integrity of the landfill systems and site.

SECTION 6

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Tables

TABLE 2-1
 2015 Integrated Landfill Surface Gas Monitoring Analytical Results
 IRP Site 2 Landfill Operations, Maintenance, and Monitoring 2015 Annual Report, Former Norton Air Force Base,
 San Bernardino, California

Analyte	Sample Location:	Grid 13	Grid 18
	Date Collected:	6/10/2015	6/10/2015
Methane (%)		0.00020 J	0.00035 J
TGNMOC* (ppmv)		ND	4.3 J
Hydrogen sulfide (ppbv)		ND	ND
Reportable VOCs (ppbv)			
Benzene		1.4	4.4
Bromomethane		0.42 J	ND
2-Butanone		ND	0.90 J
Chloromethane		0.68 J	0.70 J
Dichlorodifluoromethane		0.43 J	0.45 J
Ethylbenzene		0.071 J	1.9
4-Ethyl Toluene		ND	1.5
Methyl Tert-Butyl Ether		ND	0.73 J
Styrene		ND	0.24 J
1,2,4-Trimethylbenzene		ND	1.3 J
1,3,5-Trimethylbenzene		ND	0.60 J
Toluene		0.52 J	9.4
m,p-Xylenes		0.20 J	8.5
o-Xylenes		ND	3.0

Notes:

* TGNMOC concentration without nitrogen and moisture correction

J = analyte was detected below the reporting limit and is an estimated concentration

ND = analyte was not detected above the laboratory method detection limit

ppbv = part(s) per billion by volume

ppmv = part(s) per million by volume

TGNMOC = total gaseous non-methane organic compounds as methane

VOC = volatile organic compound

TABLE 2-2
 2015 Perimeter Probe Sampling Analytical Data
 IRP Site 2 Landfill Operations, Maintenance, and Monitoring 2015 Annual Report, Former Norton Air Force Base,
 San Bernardino, California

	Sample Location:	SW-11c	SW-11c
	Date Collected:	6/10/2015	6/10/2015
Analyte	Quality Control:	Native Sample	Field Duplicate Sample
Methane (%)		ND	ND
TGNMOC (ppmv)		5.3	5.2
Hydrogen sulfide (ppbv)		ND	ND
Reportable VOCs (ppbv)			
2-Butanone		0.460	ND
Chloroform		0.890	0.660
1,4-Dichlorobenzene		0.710	ND
Dichlorodifluoromethane		4.66	3.86
1,1-Dichloroethane		0.610	0.560
1,2-Dichloro-1,1,2,2-tetrafluorethane		9.34	7.60
Methylene chloride		0.780	0.820
Tetrachloroethene		2.84	2.48
Toluene		0.550	ND
Trichlorofluoromethane		19.1	15.8
1,1,1-Trichloroethane		2.37	2.32

Notes:

ND = analyte was not detected above the laboratory method detection limit
 ppbv = part(s) per billion by volume
 ppmv = part(s) per million by volume
 TGNMOC = total gaseous non-methane organic compounds as methane
 VOC = volatile organic compound

TABLE 2-3
 2015 Landfill Gas Collection Header Monitoring Analytical Results
*IRP Site 2 Landfill Operations, Maintenance, and Monitoring 2015 Annual Report, Former Norton Air Force Base,
 San Bernardino, California*

Analyte	Date Collected:	6/10/2015 (Header)
Methane (%)		2.04
TGNMOC (ppmv)		9.8
Hydrogen sulfide (ppbv)		ND
Reportable VOCs (ppbv)*		
Benzene		26.0
Chlorobenzene		85.8
Cis-1,2-Dichloroethene		11.0
Dichlorodifluoromethane		29.6
1,4-Dichlorobenzene		60.8
1,2-Dichlorotetrafluoroethane		20.2
Ethylbenzene		84.4
1,2,4-Trimethylbenzene		29.6
m,p-Xylenes		48.2

Notes:

* Compounds reported in the table are TACs listed in Table I of SCAQMD Rule 1150.1 Attachment A.

ND = analyte was not detected above the laboratory method detection limit

ppbv = part(s) per billion by volume

ppmv = part(s) per million by volume

TAC = toxic air contaminant

TGNMOC = total gaseous non-methane organic compounds as methane

VOC = volatile organic compound

TABLE 2-4
 2015 Ambient Air Monitoring Analytical Results
 IRP Site 2 Landfill Operations, Maintenance, and Monitoring 2015 Annual Report, Former Norton Air Force Base,
 San Bernardino, California

Analyte	Sample Location:	AA-1 (W)	AA-1 (W)	AA-2 (E)	AA-2 (E)
	Date Collected:	6/9/2015	6/10/2015	6/9/2015	6/10/2015
Methane (%)		0.00020 J	0.00042 J	0.00021 J	0.00021 J
TGNMOC* (ppmv)		3.4 J	ND	4.8 J	4.8 J
Hydrogen sulfide (ppbv)		ND	ND	ND	ND
Reportable VOCs (ppbv)					
Benzene		1.4	1.5	1.3	1.4
Bromomethane		ND	0.84 J	ND	ND
2-Butanone		ND	0.63 J	ND	ND
Chloromethane		0.79 J	0.78 J	0.59 J	0.68 J
Dichlorodifluoromethane		0.45 J	0.43 J	0.44 J	0.44 J
Ethylbenzene		ND	0.26 J	0.20 J	0.10 J
4-Ethyl Toluene		ND	0.20 J	0.30 J	0.078 J
Styrene		ND	0.14 J	0.14 J	ND
Toluene		0.59 J	1.2	0.98 J	0.71 J
1,2,4-Trimethylbenzene		ND	0.27 J	0.39 J	ND
m,p-Xylenes		0.18 J	0.67 J	0.56 J	0.30 J
o-Xylenes		ND	0.33 J	0.30 J	0.15 J

Notes:

* TGNMOC concentration without nitrogen and moisture correction

J = analyte was detected below the reporting limit and is an estimated concentration

ND = analyte was not detected above the laboratory method detection limit

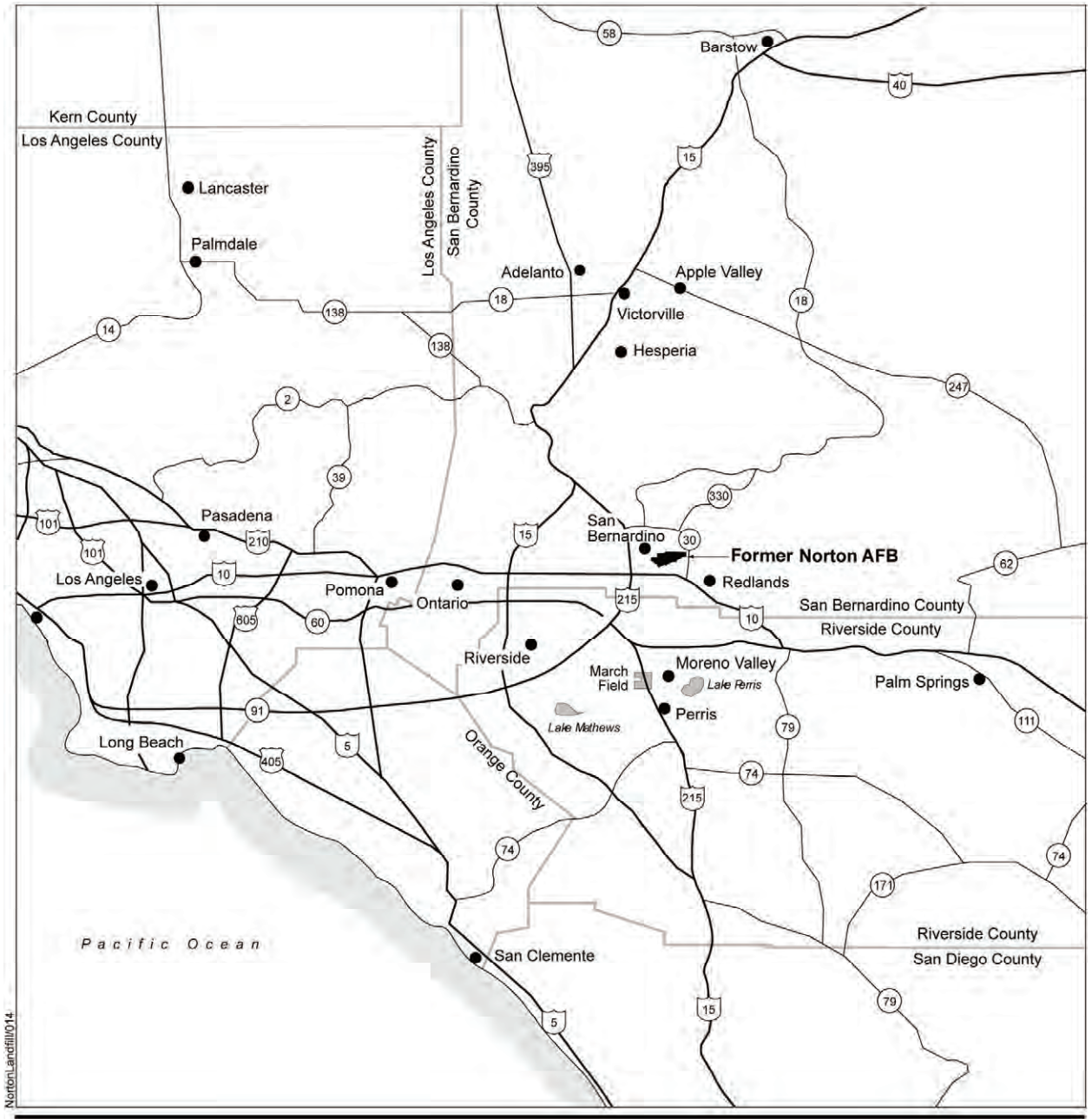
ppbv = part(s) per billion by volume

ppmv = part(s) per million by volume

TGNMOC = total gaseous non-methane organic compounds as methane

VOC = volatile organic compound

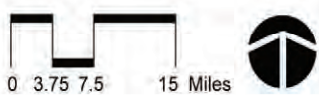
Figures



Norton_Landfill014

EXPLANATION

- Interstate Highways
- U.S. Highways
- State Highways
- County Boundary

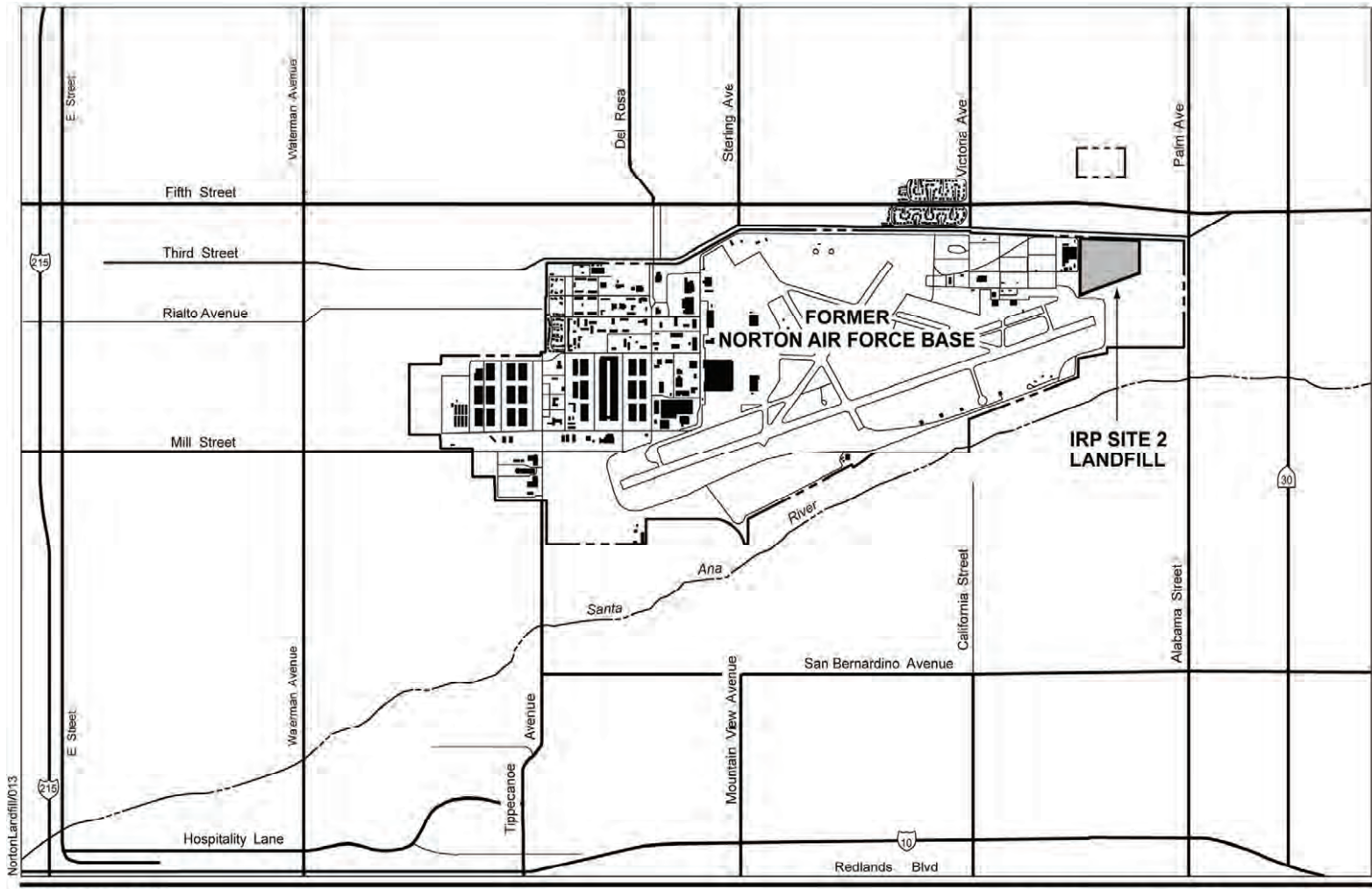


**FIGURE 1-1
Vicinity Map**

IRP Site 2 Landfill Operations, Monitoring,
and Maintenance, 2015 Annual Report
Former Norton AFB, California

Source: Earth Tech, April 2009





EXPLANATION



**FIGURE 1-2
Site Location Map**

IRP Site 2 Landfill Operations, Monitoring,
and Maintenance, 2015 Annual Report
Former Norton AFB, California

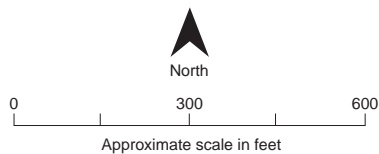


Source: Earth Tech, April 2009



LEGEND

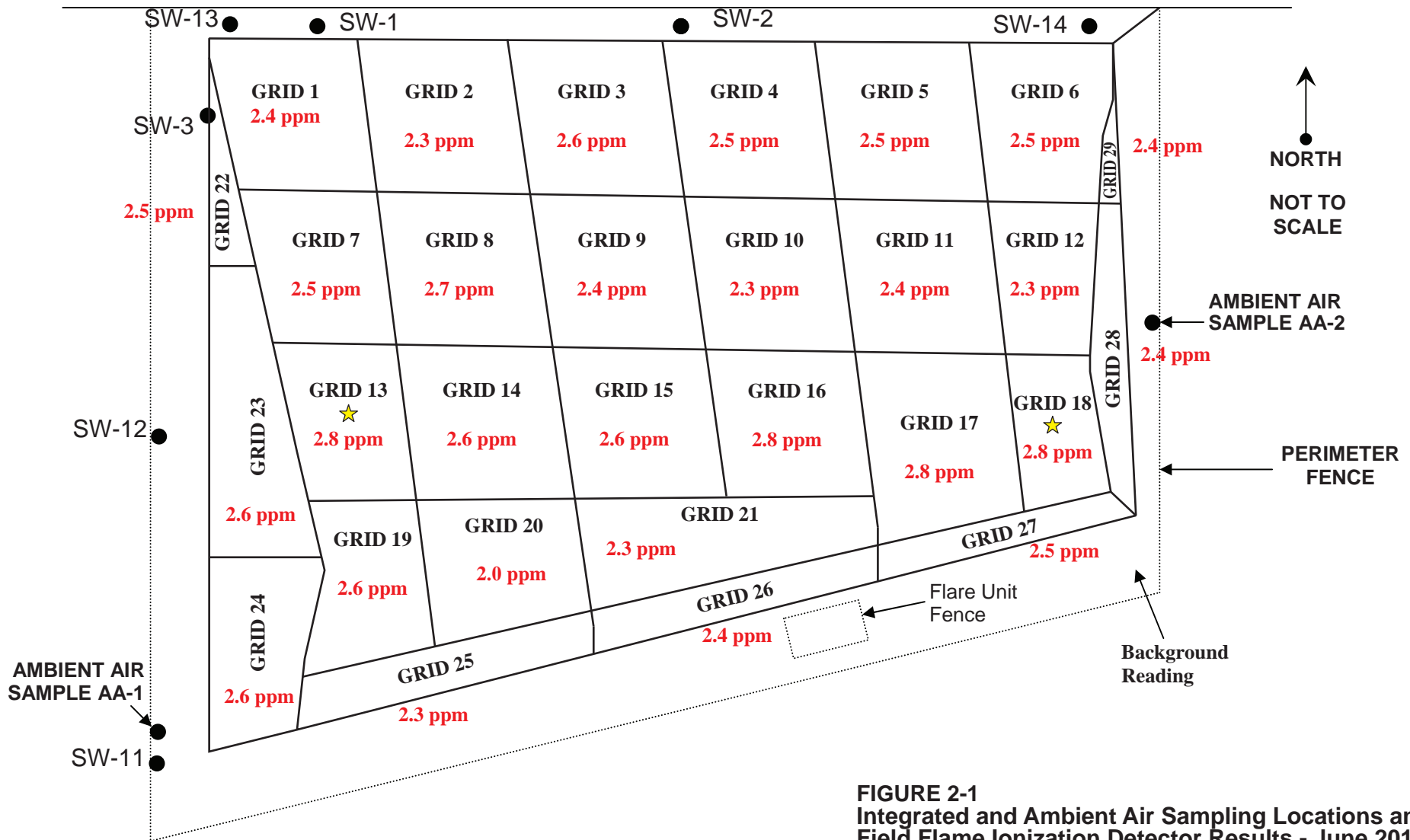
- Groundwater Monitoring Well
- ⊕ LFG Monitoring Well
- Vertical Extraction Well
- Valve
- Horizontal Extraction Well



**FIGURE 1-3
Groundwater, Landfill Gas Collection,
and Perimeter Well Locations**

IRP Site 2 Landfill Operations, Monitoring,
and Maintenance, 2015 Annual Report
Former Norton AFB, California

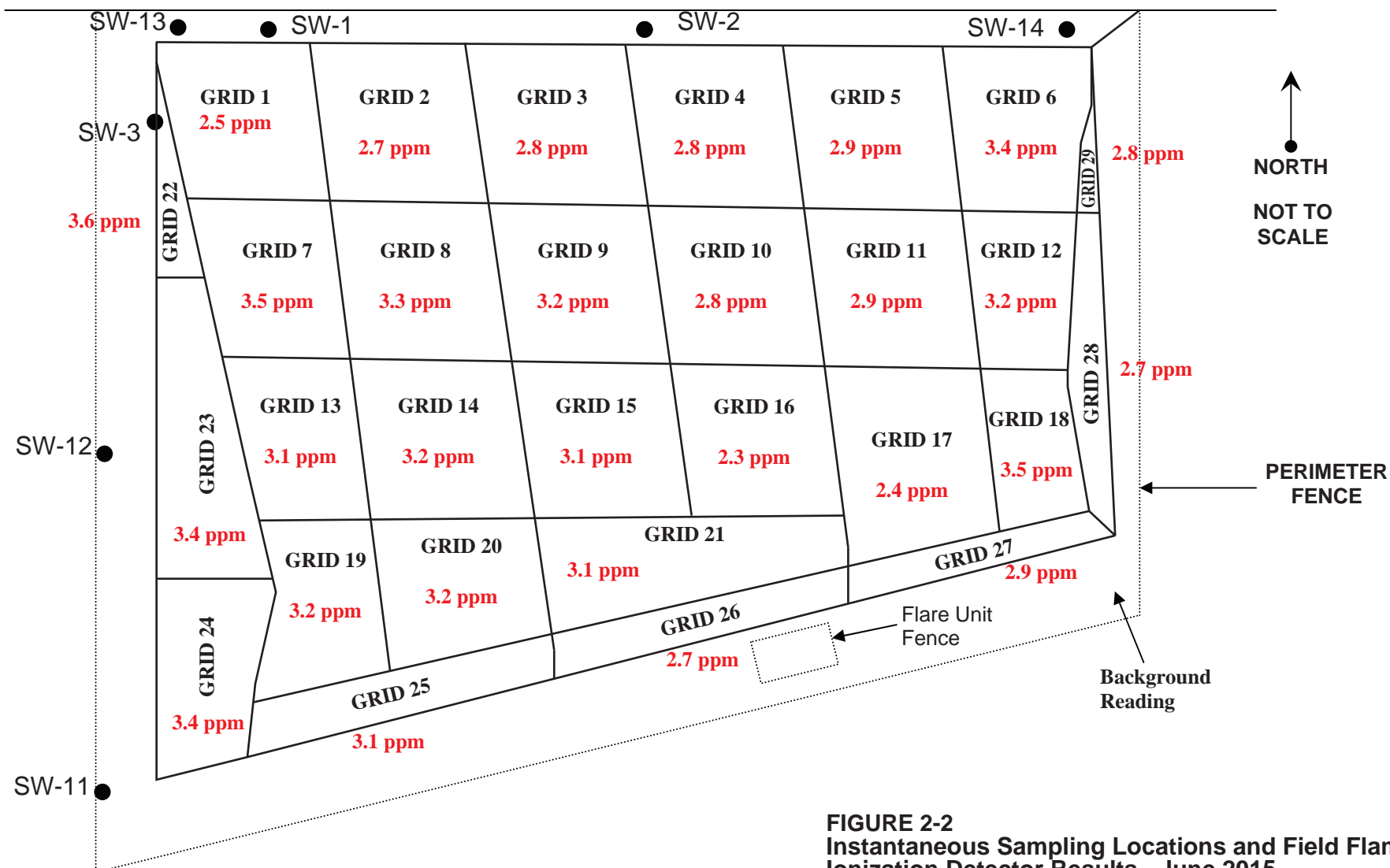




LEGEND
 2.6 ppm June 10, 2015 FID Reading
 ★ Sample Collected from Grid

FIGURE 2-1
 Integrated and Ambient Air Sampling Locations and
 Field Flame Ionization Detector Results - June 2015
 IRP Site 2 Landfill Operations, Monitoring,
 and Maintenance, 2015 Annual Report
 Former Norton AFB, California





LEGEND
3.4 ppm June 10, 2015 FID Reading

FIGURE 2-2
Instantaneous Sampling Locations and Field Flame Ionization Detector Results - June 2015

IRP Site 2 Landfill Operations, Monitoring, and Maintenance, 2015 Annual Report
 Former Norton AFB, California



Appendix A
Instantaneous and Integrated Landfill Surface
Monitoring Field Records

NORTON AFB LANDFILL

6-10-15

3RD STREET



- ABBREVIATIONS**
- PI Paved Area
 - PL Paving
 - SP Sprayed Asphalt Seal
 - PC Portland Cement Concrete
 - LFC Leachate Cell
 - SP Spillage
 - S.S. Sewer
 - LM Low Moisture Polyethylene
 - LP Landfill
 - MC Municipal Solid Waste

- LEGEND**
- Existing Street Contour
 - Proposed Street Contour (with intersection)
 - Proposed Street Contour
 - Proposed Street Contour (with existing curb)
 - Proposed Street Contour (with existing curb)
 - Proposed Street Contour (with existing curb)
 - Proposed Street Contour (with existing curb)
 - Proposed Street Contour (with existing curb)
 - Proposed Street Contour (with existing curb)
 - Proposed Street Contour (with existing curb)
 - Proposed Street Contour (with existing curb)

CONSTRUCTION NOTES

- 1. See all notes on all sheets of this project.
- 2. See all notes on all sheets of this project.
- 3. See all notes on all sheets of this project.
- 4. See all notes on all sheets of this project.
- 5. See all notes on all sheets of this project.
- 6. See all notes on all sheets of this project.
- 7. See all notes on all sheets of this project.
- 8. See all notes on all sheets of this project.
- 9. See all notes on all sheets of this project.
- 10. See all notes on all sheets of this project.



500 ft

**NORTON AFB LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING**

PERSONNEL:	ROBERT JOHNS	MARIO ZAGACETA	
	MIKE ORANTEZ		
DATE:	6/10/2015	INSTRUMENT USED:	ISS PACKS 1,14,16
TEMPERATURE:	82		

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG speed	MAX. SPEED	DIRECTION	
1	RJ	600	625	2.4	333	1	3	5	
2	MZ	600	625	2.3	333	1	3	5	
3	MO	600	625	2.6	333	1	3	5	
4	RJ	625	650	2.5	333	1	3	5	
5	MZ	625	650	2.5	333	1	3	5	
6	MO	625	650	2.5	333	1	3	5	
7	RJ	650	715	2.5	333	2	3	5	
8	MZ	650	715	2.7	333	2	3	5	
9	MO	650	715	2.4	333	2	3	5	
10	RJ	715	740	2.3	333	2	3	5	
11	MZ	715	740	2.4	333	2	3	5	
12	MO	715	740	2.3	333	2	3	5	
13	RJ	740	805	2.8	333	2	3	5	
14	MZ	740	805	2.6	333	2	3	5	
15	MO	740	805	2.6	333	2	3	5	
16	RJ	805	830	2.8	333	1	3	9	
17	MZ	805	830	2.8	333	1	3	9	
18	MO	805	830	2.8	333	1	3	9	
19	RJ	830	855	2.6	333	1	4	9	
20	MZ	830	855	2	333	1	4	9	
21	MO	830	855	2.3	333	1	4	9	
22	RJ	855	920	2.5	333	1	4	9	
23	MZ	855	920	2.6	333	1	4	9	
24	MO	855	920	2.6	333	1	4	9	
25	RJ	920	945	2.3	333	1	4	12	
26	MZ	920	945	2.4	333	1	4	12	
27	MO	920	945	2.5	333	1	4	12	
28	RJ	945	1010	2.4	333	1	4	12	
29	MZ	945	1010	2.4	333	1	4	12	
					333				

Attach Calibration Sheet
Attach site map showing grid ID

LOCATION: Norton AFB

INTEGRATED SURFACE SAMPLING SHEET

GRID #: 13

DATE: 6-10-15

SAMPLE #: _____

FLOW START : 333 cc

CLASS #: _____

FLOW STOP : 333 cc

BAG # : _____

TIME START : 0740

SAMPLER # : 1

TIME STOP : 0805

WIND SPEED: 2

BAG STATUS:

FULL () ³/₄
 () ¹/₂ () ¹/₄

WIND DIRECTION: 5 16 pt

METHANE CONCENTRATION: 2.8 ppm

Technician: (Signature) *[Signature]*

THE TECHNICIAN WILL BE INSPECTING FOR THE FOLLOWING:

- 1. SETTLEMENT CRACKS; 2. SHRINKAGE CRACKS; 3. SLUMPING;
- 4. SURFACE DEPRESSION; 5. EXCESSIVELY DRY OR WET AREAS;
- 6. RODENT BURROWS; 7. COVER SOIL EROSIONS

COMMENTS: _____

LOCATION: Wilton AFB

INTEGRATED SURFACE SAMPLING SHEET

GRID #: 18

DATE: 6-10-15

SAMPLE #: _____

FLOW START : 333 cc

CLASS #: _____

FLOW STOP : 333 cc

BAG #: _____

TIME START : 0805

SAMPLER #: 16

TIME STOP : 0830

WIND SPEED: 1

BAG STATUS:
 FULL () ³/₄
 ¹/₂ () ¹/₄

WIND DIRECTION: 9 16 pt

METHANE CONCENTRATION: 2.8 ppm

Technician: (Signature) 

- THE TECHNICIAN WILL BE INSPECTING FOR THE FOLLOWING:
- 1. SETTLEMENT CRACKS; 2. SHRINKAGE CRACKS; 3. SLUMPING;
 - 4. SURFACE DEPRESSION; 5. EXCESSIVELY DRY OR WET AREAS;
 - 6. RODENT BURROWS; 7. COVER SOIL EROSIONS

COMMENTS: _____

NORTON AFB LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

PERSONNEL:	ROBERT JOHNS	MARIO ZAGACETA	
	MIKE ORANTEZ		
DATE:	6-10-2015	INSTRUMENT USED: ISS PACKS 1,14,16	
TEMPERATURE:		89	

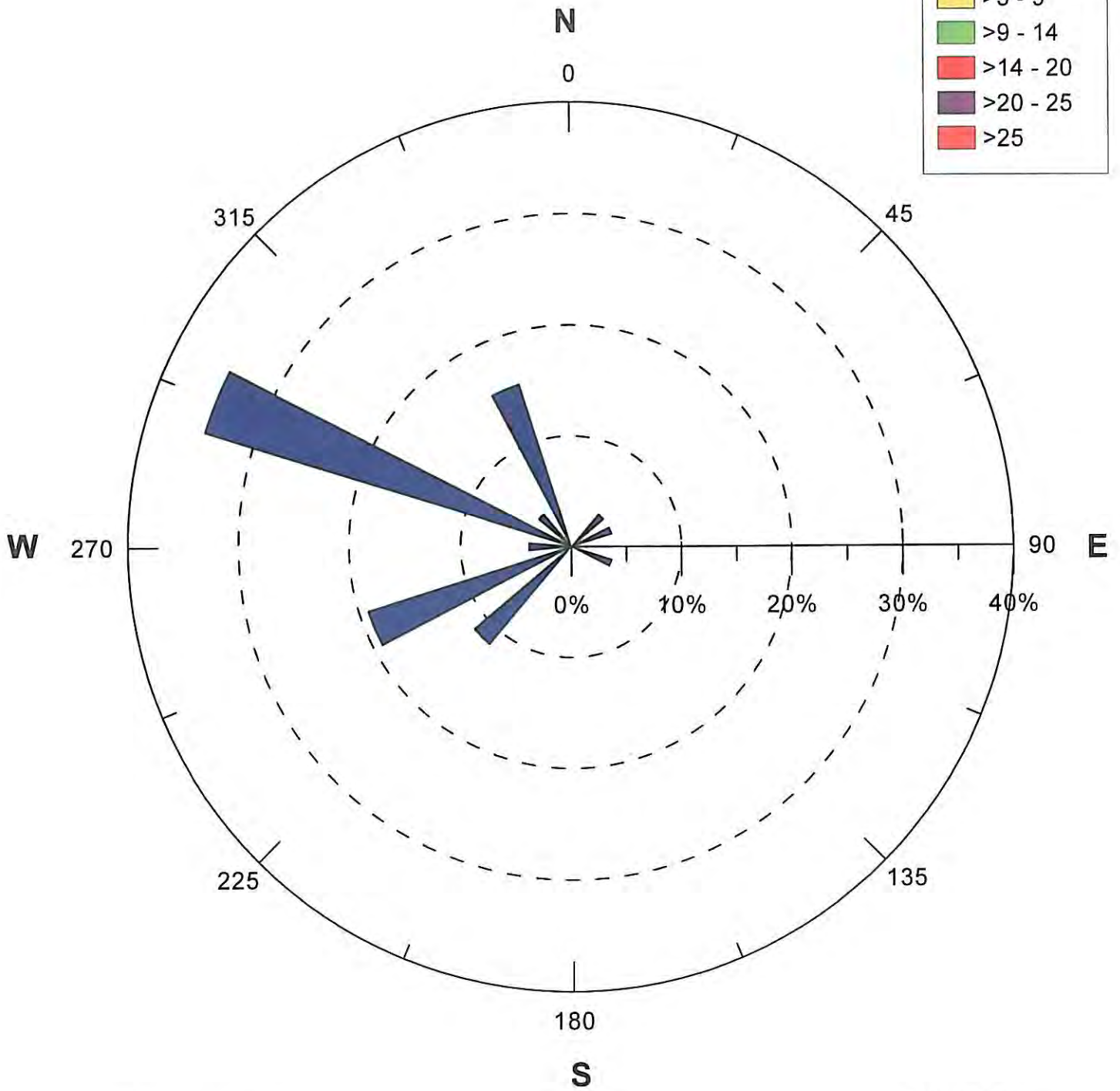
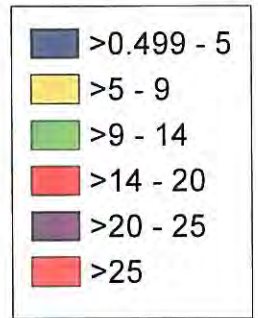
GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG speed	MAX. SPEED	DIRECTION	
1	RJ	1100	1115	2.5	3	5	9	
2	MZ	1100	1115	2.7	3	5	9	
3	MO	1100	1115	2.8	3	5	9	
4	RJ	1115	1130	2.8	3	5	9	
5	MZ	1115	1130	2.9	3	5	9	
6	MO	1115	1130	3.4	3	5	9	
7	RJ	1130	1145	3.5	3	5	9	
8	MZ	1130	1145	3.3	3	5	9	
9	MO	1130	1145	3.2	3	5	9	
10	RJ	1145	1200	2.8	3	5	13	
11	MZ	1145	1200	2.9	3	5	13	
12	MO	1145	1200	3.2	3	5	13	
13	RJ	1215	1230	3.1	4	5	13	
14	MZ	1215	1230	3.2	4	5	13	
15	MO	1215	1230	3.1	4	5	13	
16	RJ	1230	1245	2.3	4	5	13	
17	MZ	1230	1245	2.4	4	5	13	
18	MO	1230	1245	3.5	4	5	13	
19	RJ	1245	1300	3.2	4	5	13	
20	MZ	1245	1300	3.2	4	5	13	
21	MO	1245	1300	3.1	4	5	13	
22	RJ	1300	1315	3.6	4	5	7	
23	MZ	1300	1315	3.4	4	5	7	
24	MO	1300	1315	3.4	4	5	7	
25	RJ	1315	1330	3.1	4	5	7	
26	MZ	1315	1330	2.7	4	5	7	
27	MO	1315	1330	2.9	4	5	7	
28	RJ	1330	1345	2.7	4	5	7	
29	MZ	1330	1345	2.8	4	5	7	

Attach Calibration Sheet
 Attach site map showing grid ID

NORTON AFB

June 9, 2015 - June 10, 2015

Windspeed Class (mph)



All times used
All speeds used

0% calms

NORTON AFB
 Joint Frequency Distribution
 June 9, 2015 - June 10, 2015; All times used

Wind Direction	Wind Speed (MPH)					Over 25	Total	Avg Speed
	.5-5	5.1-9	9.1-14	14.1-20	20.1-25			
N	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	3.8	.0	.0	.0	.0	.0	3.8	3.0
ENE	3.8	.0	.0	.0	.0	.0	3.8	3.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	3.8	.0	.0	.0	.0	.0	3.8	3.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	11.5	.0	.0	.0	.0	.0	11.5	2.0
WSW	19.2	.0	.0	.0	.0	.0	19.2	2.2
W	3.8	.0	.0	.0	.0	.0	3.8	3.0
WNW	34.6	.0	.0	.0	.0	.0	34.6	2.2
NW	3.8	.0	.0	.0	.0	.0	3.8	2.0
NNW	15.4	.0	.0	.0	.0	.0	15.4	2.3
Calm							.0	
Total	100.0	.0	.0	.0	.0	.0	100.0	2.3

Data Spans June 9, 2015 at 900 to June 10, 2015 at 1000 (26 valid cases)

NORTON AFB

Wind Direction in Degrees and Wind Speed in MPH for JUNE 9 to 10, 2015

HOUR DAY	00	01	02	03	04	05	06	07	08	09	10	11	12
	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V	DDD VV.V
01													
02													
03													
04													
05													
06													
07													
08													
09										238 01.0	268 03.0	290 03.0	113 03.0
10	293 02.0	238 03.0	338 02.0	293 03.0	248 02.0	248 03.0	293 01.0	293 02.0	293 01.0	045 03.0	293 03.0		
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
MEAN	293 02.0	238 03.0	338 02.0	293 03.0	248 02.0	248 03.0	293 01.0	293 02.0	293 01.0	321 02.0	280 03.0	290 03.0	113 03.0
MX SPD	293 02.0	238 03.0	338 02.0	293 03.0	248 02.0	248 03.0	293 01.0	293 02.0	293 01.0	045 03.0	268 03.0	290 03.0	113 03.0
MN SPD	293 02.0	238 03.0	338 02.0	293 03.0	248 02.0	248 03.0	293 01.0	293 02.0	293 01.0	238 01.0	268 03.0	290 03.0	113 03.0

DAILY MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

DDD = Direction from which the wind is blowing, in degrees
VV.V = Wind Speed in MPH

NORTON AFB

Wind Direction in Degrees and Wind Speed in MPH for JUNE 9 to 10, 2015

PAGE 2

HOUR DAY	13 DDD VV.V	14 DDD VV.V	15 DDD VV.V	16 DDD VV.V	17 DDD VV.V	18 DDD VV.V	19 DDD VV.V	20 DDD VV.V	21 DDD VV.V	22 DDD VV.V	23 DDD VV.V	MEAN DDD VV.V	MX SPD DDD VV.V	MN SPD DDD VV.V
01														
02														
03														
04														
05														
06														
07														
08														
09	068 03.0	245 02.0	223 02.0	223 02.0	338 02.0	222 02.0	338 02.0	293 02.0	315 02.0	338 03.0	293 03.0		268 03.0	238 01.0
10													238 03.0	293 01.0
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														

MEAN	068 03.0	245 02.0	223 02.0	223 02.0	338 02.0	222 02.0	338 02.0	293 02.0	315 02.0	338 03.0	293 03.0	285 02.3		
MX SPD	068 03.0	245 02.0	223 02.0	223 02.0	338 02.0	222 02.0	338 02.0	293 02.0	315 02.0	338 03.0	293 03.0		268 03.0	
MN SPD	068 03.0	245 02.0	223 02.0	223 02.0	338 02.0	222 02.0	338 02.0	293 02.0	315 02.0	338 03.0	293 03.0			238 01.0

POSSIBLE NUMBER OF OBSERVATIONS = 26 TOTAL NUMBER OF OBSERVATIONS = 26 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 285 02.3 MAXIMUM WIND SPEED WAS 3 MPH AT 268 DEGREES ON 6/ 9 AT 1000

DAILY MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

DDD = Direction from which the wind is blowing, in degrees
VV.V = Wind Speed in MPH

BAG SAMPLER QUALITY CONTROL

PROJECT / SITE: Norton AFB BAG #: _____

DATE PREPARED: 6-9-15 PREPARED BY: Robert Johns

SAMPLER #: _____ RUN DATE: 6-9-15

BAG INSTALLATION

BAG INSTALLED BY: Robert Johns DATE: 6-9-15

FLOW READING: 30cc ADJUSTED? () NO () OPEN VALVE ()

TIME STARTED:

LOCAL 0900

LOCATION: AA-1

BAG REMOVAL

BAG REMOVED BY: Robert Johns DATE: 6-9-15

CLOSE VALVE () FLOW AT END: 30cc

BAG STATUS: FULL () 1/2 FULL () EMPTY ()

TIME ENDED:

LOCAL 2100

SAMPLER STATUS: WORKING () NOT WORKING ()
(Specify in comments)

BATTERY STATUS GOOD () BAD ()

COMMENTS: _____

REVIEWED BY: _____

BAG SAMPLER QUALITY CONTROL

PROJECT / SITE: Norton AFB BAG #: _____
DATE PREPARED: 6-9-15 PREPARED BY: Robert Johns
SAMPLER #: _____ RUN DATE: 6-9-15

BAG INSTALLATION

BAG INSTALLED BY: Robert Johns DATE: 6-9-15

FLOW READING: 30cc ADJUSTED? () NO () OPEN VALVE ()

TIME STARTED:

LOCAL 0900

LOCATION: AA-2

BAG REMOVAL

BAG REMOVED BY: Robert Johns DATE: 6-9-15

CLOSE VALVE () FLOW AT END: 30cc

BAG STATUS: FULL () 1/2 FULL () EMPTY ()

TIME ENDED:

LOCAL 2000

SAMPLER STATUS: WORKING () NOT WORKING ()
(Specify in comments)

BATTERY STATUS GOOD () BAD ()

COMMENTS: _____

REVIEWED BY: _____

BAG SAMPLER QUALITY CONTROL

PROJECT / SITE: Robert Johns BAG #: _____

DATE PREPARED: 6-9-15 PREPARED BY: Robert Johns

SAMPLER #: _____ RUN DATE: 6-9/10-15

BAG INSTALLATION

BAG INSTALLED BY: Robert Johns DATE: 6-9-15

FLOW READING: 30cc ADJUSTED? () NO () OPEN VALVE ()

TIME STARTED:

LOCAL 2100

LOCATION: AT-3

BAG REMOVAL

BAG REMOVED BY: Robert Johns DATE: 6-10-15

CLOSE VALVE () FLOW AT END: 30cc

BAG STATUS: FULL () 1/2 FULL () EMPTY ()

TIME ENDED:

LOCAL 0900

SAMPLER STATUS: WORKING () NOT WORKING ()
(Specify in comments)

BATTERY STATUS GOOD () BAD ()

COMMENTS: _____

REVIEWED BY: _____

BAG SAMPLER QUALITY CONTROL

PROJECT / SITE: Norton A-13 BAG #: _____

DATE PREPARED: 6-9-15 PREPARED BY: Robert Johns

SAMPLER #: _____ RUN DATE: 6-9-10-15

BAG INSTALLATION

BAG INSTALLED BY: Robert Johns DATE: 6-9-15

FLOW READING: 30cc ADJUSTED? () NO () OPEN VALVE ()

TIME STARTED:

LOCAL 2100

LOCATION: A1-4

BAG REMOVAL

BAG REMOVED BY: Robert Johns DATE: 6-10-15

CLOSE VALVE () FLOW AT END: 30cc

BAG STATUS: FULL () 1/2 FULL () EMPTY ()

TIME ENDED:

LOCAL 0900

SAMPLER STATUS: WORKING () NOT WORKING ()
(Specify in comments)

BATTERY STATUS GOOD () BAD ()

COMMENTS: _____

REVIEWED BY: _____

Appendix B
Integrated Landfill Surface Monitoring and
Ambient Air Analytical Results



June 24, 2015

CH2M HILL
ATTN: Andy Cramer
2485 Natomas Park Dr, Suite 600
Sacramento, CA 95833



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15
UT Cert CA0133332014-1
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: Former Norton AFB; 393091.NO.02.15.04
Lab Number: G061004-01/06

Enclosed are results for sample(s) received 6/10/15 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Andy Cramer, Daniel Chern and Mark Fesler on 6/22/15.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

CH2MHILL

CHAIN OF CUSTODY RECORD

G061004-01/06

Project Name	Former Norton AFB	Container:	10L	10L	10L	10L			
			Tedlar	Tedlar	Tedlar	Tedlar			
Location	Former Norton AFB	Preservatives:	None	None	None	None			
Project Number	393091.NO.02.15.04	Filtered:	NA	NA	NA	NA			
Project Manager	Andy Cramer	Holding Time:	3	3	3	3			
Sample Manager	Dan Chern (201) 563-5912								
Task Order									
Project	NORTON LF2 2015								
Turnaround Time	21 Days								
Shipping Date:									
COC Number:	ATL-061115								
DATE	TIME	Matrix	44/D5504-01 (lab specific method for H2S)	EPA 25C Mod (TGNMO as %methane in landfill gases)	EPA 30C (Fixed gases including METHANE)	TO-15 (VOCs)		Number of Containers	COMMENTS
01	LF2-E1-AA-061115	6/9/15 2106	Air	X	X	X	X	1	
02	LF2-E2-AA-061115	6/10/15 0900	Air	X	X	X	X	1	
03	LF2-GD-13-061115	6/10/15 0805	Air	X	X	X	X	1	
04	LF2-GD-18-061115	6/10/15 0830	Air	X	X	X	X	1	
05	LF2-W1-AA-061115	6/9/15 2100	Air	X	X	X	X	1	
06	LF2-W2-AA-061115	6/10/15 0900	Air	X	X	X	X	1	
TOTAL NUMBER OF CONTAINERS								6	

Approved by Sampled by Relinquished by Received by Relinquished by Received by	Signatures  	Date/Time 6/10/15 1203 6/10/15 1205	Shipping Details Method of Shipment: FedEx On Ice: yes / <input checked="" type="radio"/> no Airbill No: Lab Name: AIR TECHNOLOGY LABORATORIES, INC. Lab Phone: (626) 964-4032	ATTN: Sample Custody and Val Mallari	Special Instructions: Report Copy to Mark Fesler (530) 229-3273
---	---	--	---	--	--

Client: CH2M Hill
 Attn: Andy Cramer
 Project Name: Former Norton AFB
 Project No.: 393091.NO.02.15.04
 Date Received: 06/10/15
 Matrix: Air
 Reporting Units: ppbv

EPA Method TO15

Lab No.:	G061004-01			G061004-02			G061004-03			G061004-04		
Client Sample I.D.:	LF2-E1-AA-061115			LF2-E2-AA-061115			LF2-GD-13-061115			LF2-GD-18-061115		
Date/Time Sampled:	6/9/15 21:00			6/10/15 9:00			6/10/15 8:05			6/10/15 8:30		
Date/Time Analyzed:	6/10/15 20:00			6/10/15 20:40			6/10/15 21:20			6/10/15 22:01		
QC Batch No.:	150610MS2A1			150610MS2A1			150610MS2A1			150610MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.0			1.0			1.0			1.0		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Dichlorodifluoromethane (12)	0.44 J	1.0	0.15	0.44 J	1.0	0.15	0.43 J	1.0	0.15	0.45 J	1.0	0.15
Chloromethane	0.59 J	2.0	0.22	0.68 J	2.0	0.22	0.68 J	2.0	0.22	0.70 J	2.0	0.22
1,2-Cl-1,1,2,2-F ethane (114)	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20
Vinyl Chloride	ND	1.0	0.16	ND	1.0	0.16	ND	1.0	0.16	ND	1.0	0.16
Bromomethane	ND	1.0	0.29	ND	1.0	0.29	0.42 J	1.0	0.29	ND	1.0	0.29
Chloroethane	ND	1.0	0.84	ND	1.0	0.84	ND	1.0	0.84	ND	1.0	0.84
Trichlorofluoromethane (11)	ND	1.0	0.22	ND	1.0	0.22	ND	1.0	0.22	ND	1.0	0.22
1,1-Dichloroethene	ND	1.0	0.23	ND	1.0	0.23	ND	1.0	0.23	ND	1.0	0.23
Carbon Disulfide	ND	5.0	0.24	ND	5.0	0.24	ND	5.0	0.24	ND	5.0	0.24
1,1,2-Cl 1,2,2-F ethane (113)	ND	1.0	0.27	ND	1.0	0.27	ND	1.0	0.27	ND	1.0	0.27
Acetone	8.1	5.0	0.29	5.9	5.0	0.29	4.8 J	5.0	0.29	5.8	5.0	0.29
Methylene Chloride	ND	1.0	0.29	ND	1.0	0.29	ND	1.0	0.29	ND	1.0	0.29
t-1,2-Dichloroethene	ND	1.0	0.30	ND	1.0	0.30	ND	1.0	0.30	ND	1.0	0.30
1,1-Dichloroethane	ND	1.0	0.14	ND	1.0	0.14	ND	1.0	0.14	ND	1.0	0.14
Vinyl Acetate	ND	5.0	0.19	ND	5.0	0.19	ND	5.0	0.19	ND	5.0	0.19
c-1,2-Dichloroethene	ND	1.0	0.19	ND	1.0	0.19	ND	1.0	0.19	ND	1.0	0.19
2-Butanone	ND	1.0	0.62	ND	1.0	0.62	ND	1.0	0.62	0.90 J	1.0	0.62
t-Butyl Methyl Ether (MTBE)	ND	1.0	0.22	ND	1.0	0.22	ND	1.0	0.22	0.73 J	1.0	0.22
Chloroform	ND	1.0	0.14	ND	1.0	0.14	ND	1.0	0.14	ND	1.0	0.14
1,1,1-Trichloroethane	ND	1.0	0.10	ND	1.0	0.10	ND	1.0	0.10	ND	1.0	0.10
Carbon Tetrachloride	ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17
Benzene	1.3	1.0	0.096	1.4	1.0	0.096	1.4	1.0	0.096	4.4	1.0	0.096
1,2-Dichloroethane	ND	1.0	0.074	ND	1.0	0.074	ND	1.0	0.074	ND	1.0	0.074
Trichloroethene	ND	1.0	0.14	ND	1.0	0.14	ND	1.0	0.14	ND	1.0	0.14
1,2-Dichloropropane	ND	1.0	0.18	ND	1.0	0.18	ND	1.0	0.18	ND	1.0	0.18
Bromodichloromethane	ND	1.0	0.060	ND	1.0	0.060	ND	1.0	0.060	ND	1.0	0.060
c-1,3-Dichloropropene	ND	1.0	0.12	ND	1.0	0.12	ND	1.0	0.12	ND	1.0	0.12
4-Methyl-2-Pentanone	ND	1.0	0.067	ND	1.0	0.067	ND	1.0	0.067	ND	1.0	0.067
Toluene	0.98 J	1.0	0.079	0.71 J	1.0	0.079	0.52 J	1.0	0.079	9.4	1.0	0.079
t-1,3-Dichloropropene	ND	1.0	0.10	ND	1.0	0.10	ND	1.0	0.10	ND	1.0	0.10
1,1,2-Trichloroethane	ND	1.0	0.16	ND	1.0	0.16	ND	1.0	0.16	ND	1.0	0.16
Tetrachloroethene	ND	1.0	0.12	ND	1.0	0.12	ND	1.0	0.12	ND	1.0	0.12
2-Hexanone	ND	1.0	0.21	ND	1.0	0.21	ND	1.0	0.21	ND	1.0	0.21
Dibromochloromethane	ND	1.0	0.18	ND	1.0	0.18	ND	1.0	0.18	ND	1.0	0.18
1,2-Dibromoethane	ND	1.0	0.091	ND	1.0	0.091	ND	1.0	0.091	ND	1.0	0.091
Chlorobenzene	ND	1.0	0.078	ND	1.0	0.078	ND	1.0	0.078	ND	1.0	0.078



Client: CH2M Hill
 Attn: Andy Cramer
 Project Name: Former Norton AFB
 Project No.: 393091.NO.02.15.04
 Date Received: 06/10/15
 Matrix: Air
 Reporting Units: ppbv

EPA Method TO15

Lab No.:	G061004-01			G061004-02			G061004-03			G061004-04		
Client Sample ID.:	LF2-E1-AA-061115			LF2-E2-AA-061115			LF2-GD-13-061115			LF2-GD-18-061115		
Date/Time Sampled:	6/9/15 21:00			6/10/15 9:00			6/10/15 8:05			6/10/15 8:30		
Date/Time Analyzed:	6/10/15 20:00			6/10/15 20:40			6/10/15 21:20			6/10/15 22:01		
QC Batch No.:	150610MS2A1			150610MS2A1			150610MS2A1			150610MS2A1		
Analyst Initials:	DT			DT			DT			DT		
Dilution Factor:	1.0			1.0			1.0			1.0		
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv
Ethylbenzene	0.20 J	1.0	0.057	0.10 J	1.0	0.057	0.071 J	1.0	0.057	1.9	1.0	0.057
p,&m-Xylene	0.56 J	1.0	0.11	0.30 J	1.0	0.11	0.20 J	1.0	0.11	8.5	1.0	0.11
o-Xylene	0.30 J	1.0	0.12	0.15 J	1.0	0.12	ND	1.0	0.12	3.0	1.0	0.12
Styrene	0.14 J	1.0	0.13	ND	1.0	0.13	ND	1.0	0.13	0.24 J	1.0	0.13
Bromoform	ND	1.0	0.056	ND	1.0	0.056	ND	1.0	0.056	ND	1.0	0.056
1,1,2,2-Tetrachloroethane	ND	2.0	0.061	ND	2.0	0.061	ND	2.0	0.061	ND	2.0	0.061
Benzyl Chloride	ND	1.0	0.18	ND	1.0	0.18	ND	1.0	0.18	ND	1.0	0.18
4-Ethyl Toluene	0.30 J	1.0	0.063	0.078 J	1.0	0.063	ND	1.0	0.063	1.5	1.0	0.063
1,3,5-Trimethylbenzene	ND	2.0	0.17	ND	2.0	0.17	ND	2.0	0.17	0.60 J	2.0	0.17
1,2,4-Trimethylbenzene	0.39 J	2.0	0.11	ND	2.0	0.11	ND	2.0	0.11	1.3 J	2.0	0.11
1,3-Dichlorobenzene	ND	1.0	0.12	ND	1.0	0.12	ND	1.0	0.12	ND	1.0	0.12
1,4-Dichlorobenzene	ND	1.0	0.15	ND	1.0	0.15	ND	1.0	0.15	ND	1.0	0.15
1,2-Dichlorobenzene	ND	1.0	0.12	ND	1.0	0.12	ND	1.0	0.12	ND	1.0	0.12
1,2,4-Trichlorobenzene	ND	2.0	0.17	ND	2.0	0.17	ND	2.0	0.17	ND	2.0	0.17
Hexachlorobutadiene	ND	1.0	0.059	ND	1.0	0.059	ND	1.0	0.059	ND	1.0	0.059

MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 6/22/15

The cover letter is an integral part of this analytical report



Client: CH2M Hill
 Attn: Andy Cramer
 Project Name: Former Norton AFB
 Project No.: 393091.NO.02.15.04
 Date Received: 06/10/15
 Matrix: Air
 Reporting Units: ppbv

EPA Method TO15

Lab No.:	G061004-05			G061004-06									
Client Sample I.D.:	LF2-W1-AA-061115			LF2-W2-AA-061115									
Date/Time Sampled:	6/9/15 21:00			6/10/15 9:00									
Date/Time Analyzed:	6/10/15 22:41			6/10/15 23:21									
QC Batch No.:	150610MS2A1			150610MS2A1									
Analyst Initials:	DT			DT									
Dilution Factor:	1.0			1.0									
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv							
Dichlorodifluoromethane (12)	0.45 J	1.0	0.15	0.43 J	1.0	0.15							
Chloromethane	0.79 J	2.0	0.22	0.78 J	2.0	0.22							
1,2-CI-1,1,2,2-F ethane (114)	ND	1.0	0.20	ND	1.0	0.20							
Vinyl Chloride	ND	1.0	0.16	ND	1.0	0.16							
Bromomethane	ND	1.0	0.29	0.84 J	1.0	0.29							
Chloroethane	ND	1.0	0.84	ND	1.0	0.84							
Trichlorofluoromethane (11)	ND	1.0	0.22	ND	1.0	0.22							
1,1-Dichloroethene	ND	1.0	0.23	ND	1.0	0.23							
Carbon Disulfide	ND	5.0	0.24	ND	5.0	0.24							
1,1,2-CI 1,2,2-F ethane (113)	ND	1.0	0.27	ND	1.0	0.27							
Acetone	5.1	5.0	0.29	8.2	5.0	0.29							
Methylene Chloride	ND	1.0	0.29	ND	1.0	0.29							
t-1,2-Dichloroethene	ND	1.0	0.30	ND	1.0	0.30							
1,1-Dichloroethane	ND	1.0	0.14	ND	1.0	0.14							
Vinyl Acetate	ND	5.0	0.19	ND	5.0	0.19							
c-1,2-Dichloroethene	ND	1.0	0.19	ND	1.0	0.19							
2-Butanone	ND	1.0	0.62	0.63 J	1.0	0.62							
t-Butyl Methyl Ether (MTBE)	ND	1.0	0.22	ND	1.0	0.22							
Chloroform	ND	1.0	0.14	ND	1.0	0.14							
1,1,1-Trichloroethane	ND	1.0	0.10	ND	1.0	0.10							
Carbon Tetrachloride	ND	1.0	0.17	ND	1.0	0.17							
Benzene	1.4	1.0	0.096	1.5	1.0	0.096							
1,2-Dichloroethane	ND	1.0	0.074	ND	1.0	0.074							
Trichloroethene	ND	1.0	0.14	ND	1.0	0.14							
1,2-Dichloropropane	ND	1.0	0.18	ND	1.0	0.18							
Bromodichloromethane	ND	1.0	0.060	ND	1.0	0.060							
c-1,3-Dichloropropene	ND	1.0	0.12	ND	1.0	0.12							
4-Methyl-2-Pentanone	ND	1.0	0.067	ND	1.0	0.067							
Toluene	0.59 J	1.0	0.079	1.2	1.0	0.079							
t-1,3-Dichloropropene	ND	1.0	0.10	ND	1.0	0.10							
1,1,2-Trichloroethane	ND	1.0	0.16	ND	1.0	0.16							
Tetrachloroethene	ND	1.0	0.12	ND	1.0	0.12							
2-Hexanone	ND	1.0	0.21	ND	1.0	0.21							
Dibromochloromethane	ND	1.0	0.18	ND	1.0	0.18							
1,2-Dibromoethane	ND	1.0	0.091	ND	1.0	0.091							
Chlorobenzene	ND	1.0	0.078	ND	1.0	0.078							



Client: CH2M Hill
 Attn: Andy Cramer
 Project Name: Former Norton AFB
 Project No.: 393091.NO.02.15.04
 Date Received: 06/10/15
 Matrix: Air
 Reporting Units: ppbv

EPA Method TO15

Lab No.:	G061004-05	G061004-06		
Client Sample I.D.:	LF2-W1-AA-061115	LF2-W2-AA-061115		
Date/Time Sampled:	6/9/15 21:00	6/10/15 9:00		
Date/Time Analyzed:	6/10/15 22:41	6/10/15 23:21		
QC Batch No.:	150610MS2A1	150610MS2A1		
Analyst Initials:	DT	DT		
Dilution Factor:	1.0	1.0		

ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv							
Ethylbenzene	ND	1.0	0.057	0.26 J	1.0	0.057							
p,&m-Xylene	0.18 J	1.0	0.11	0.67 J	1.0	0.11							
o-Xylene	ND	1.0	0.12	0.33 J	1.0	0.12							
Styrene	ND	1.0	0.13	0.14 J	1.0	0.13							
Bromoform	ND	1.0	0.056	ND	1.0	0.056							
1,1,2,2-Tetrachloroethane	ND	2.0	0.061	ND	2.0	0.061							
Benzyl Chloride	ND	1.0	0.18	ND	1.0	0.18							
4-Ethyl Toluene	ND	1.0	0.063	0.20 J	1.0	0.063							
1,3,5-Trimethylbenzene	ND	2.0	0.17	ND	2.0	0.17							
1,2,4-Trimethylbenzene	ND	2.0	0.11	0.27 J	2.0	0.11							
1,3-Dichlorobenzene	ND	1.0	0.12	ND	1.0	0.12							
1,4-Dichlorobenzene	ND	1.0	0.15	ND	1.0	0.15							
1,2-Dichlorobenzene	ND	1.0	0.12	ND	1.0	0.12							
1,2,4-Trichlorobenzene	ND	2.0	0.17	ND	2.0	0.17							
Hexachlorobutadiene	ND	1.0	0.059	ND	1.0	0.059							

MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 6/22/15

The cover letter is an integral part of this analytical report



Client: CH2M Hill
 Attn: Andy Cramer
 Project Name: Former Norton AFB
 Project No.: 393091.NO.02.15.04
 Date Received: 06/10/15
 Matrix: Air
 Reporting Units: ppbv

EPA Method TO15

Lab No.:	METHOD BLANK																	
Client Sample I.D.:	-																	
Date/Time Sampled:	-																	
Date/Time Analyzed:	6/10/15 19:19																	
QC Batch No.:	150610MS2A1																	
Analyst Initials:	DT																	
Dilution Factor:	0.20																	
ANALYTE	Result ppbv	RL ppbv	MDL ppbv															
Dichlorodifluoromethane (12)	ND	0.20	0.031															
Chloromethane	ND	0.40	0.044															
1,2-CI-1,1,2,2-F ethane (114)	ND	0.20	0.040															
Vinyl Chloride	ND	0.20	0.032															
Bromomethane	ND	0.20	0.059															
Chloroethane	ND	0.20	0.17															
Trichlorofluoromethane (11)	ND	0.20	0.043															
1,1-Dichloroethene	ND	0.20	0.045															
Carbon Disulfide	ND	1.0	0.048															
1,1,2-CI 1,2,2-F ethane (113)	ND	0.20	0.054															
Acetone	ND	1.0	0.058															
Methylene Chloride	ND	0.20	0.057															
t-1,2-Dichloroethene	ND	0.20	0.060															
1,1-Dichloroethane	ND	0.20	0.027															
Vinyl Acetate	ND	1.0	0.039															
c-1,2-Dichloroethene	ND	0.20	0.039															
2-Butanone	ND	0.20	0.12															
t-Butyl Methyl Ether (MTBE)	ND	0.20	0.045															
Chloroform	ND	0.20	0.028															
1,1,1-Trichloroethane	ND	0.20	0.020															
Carbon Tetrachloride	ND	0.20	0.035															
Benzene	0.19 J	0.20	0.019															
1,2-Dichloroethane	ND	0.20	0.015															
Trichloroethene	ND	0.20	0.028															
1,2-Dichloropropane	ND	0.20	0.036															
Bromodichloromethane	ND	0.20	0.012															
c-1,3-Dichloropropene	ND	0.20	0.024															
4-Methyl-2-Pentanone	ND	0.20	0.013															
Toluene	0.036 J	0.20	0.016															
t-1,3-Dichloropropene	ND	0.20	0.021															
1,1,2-Trichloroethane	ND	0.20	0.032															
Tetrachloroethene	ND	0.20	0.024															
2-Hexanone	ND	0.20	0.041															
Dibromochloromethane	ND	0.20	0.036															
1,2-Dibromoethane	ND	0.20	0.018															
Chlorobenzene	ND	0.20	0.016															



Client: CH2M Hill
 Attn: Andy Cramer
 Project Name: Former Norton AFB
 Project No.: 393091.NO.02.15.04
 Date Received: 06/10/15
 Matrix: Air
 Reporting Units: ppbv

EPA Method TO15

Lab No.:	METHOD BLANK			
Client Sample I.D.:	-			
Date/Time Sampled:	-			
Date/Time Analyzed:	6/10/15 19:19			
QC Batch No.:	150610MS2A1			
Analyst Initials:	DT			
Dilution Factor:	0.20			

ANALYTE	Result ppbv	RL ppbv	MDL ppbv											
Ethylbenzene	ND	0.20	0.011											
p,&m-Xylene	ND	0.20	0.023											
o-Xylene	ND	0.20	0.024											
Styrene	ND	0.20	0.026											
Bromoform	ND	0.20	0.011											
1,1,2,2-Tetrachloroethane	ND	0.40	0.012											
Benzyl Chloride	ND	0.20	0.037											
4-Ethyl Toluene	ND	0.20	0.013											
1,3,5-Trimethylbenzene	ND	0.40	0.035											
1,2,4-Trimethylbenzene	ND	0.40	0.023											
1,3-Dichlorobenzene	ND	0.20	0.024											
1,4-Dichlorobenzene	ND	0.20	0.029											
1,2-Dichlorobenzene	ND	0.20	0.025											
1,2,4-Trichlorobenzene	ND	0.40	0.033											
Hexachlorobutadiene	ND	0.20	0.012											

MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 6/24/15

The cover letter is an integral part of this analytical report



LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 150610MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD						
Date/Time Analyzed:	6/10/15 19:19		6/10/15 17:57	86	6/10/15 18:38	87					
Data File ID:	10JUN008.D		10JUN006.D	94	10JUN007.D	94					
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0		Limits				
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/Fail
1,1-Dichloroethene	0.0	10.0	8.6	86	8.7	87	2.1	70	130	30	Pass
Methylene Chloride	0.0	10.0	8.6	86	8.6	86	0.5	70	130	30	Pass
Trichloroethene	0.0	10.0	9.4	94	9.4	94	0.5	70	130	30	Pass
Toluene	0.0	10.0	8.7	87	8.4	84	2.5	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.4	84	8.4	84	0.9	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 6/22/15

The cover letter is an integral part of this analytical report



Client: CH2M Hill
Attn: Andy Cramer
Project Name: Former Norton AFB
Project No.: 393091.NO.02.15.04
Date Received: 06/10/15
Matrix: Air
Reporting Units: ppmv

ASTM D5504

Lab No.:	G061004-01	G061004-02	G061004-03	G061004-04								
Client Sample I.D.:	LF2-E1-AA-061115	LF2-E2-AA-061115	LF2-GD-13-061115	LF2-GD-18-061115								
Date/Time Sampled:	6/9/15 21:00	6/10/15 9:00	6/10/15 8:05	6/10/15 8:30								
Date/Time Analyzed:	6/10/15 14:33	6/10/15 16:02	6/10/15 15:17	6/10/15 15:39								
QC Batch No.:	150610GC3A1	150610GC3A1	150610GC3A1	150610GC3A1								
Analyst Initials:	AS	AS	AS	AS								
Dilution Factor:	1.0	1.0	1.0	1.0								
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv
Hydrogen Sulfide	ND	0.0050	0.0020	ND	0.0050	0.0020	ND	0.0050	0.0020	ND	0.0050	0.0020

MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 6/22/15

The cover letter is an integral part of this analytical report



Client: CH2M Hill
Attn: Andy Cramer
Project Name: Former Norton AFB
Project No.: 393091.NO.02.15.04
Date Received: 06/10/15
Matrix: Air
Reporting Units: ppmv

ASTM D5504

Lab No.:	G061004-05	G061004-06								
Client Sample I.D.:	LF2-W1-AA-061115	LF2-W2-AA-061115								
Date/Time Sampled:	6/9/15 21:00	6/10/15 9:00								
Date/Time Analyzed:	6/10/15 14:55	6/10/15 16:24								
QC Batch No.:	150610GC3A1	150610GC3A1								
Analyst Initials:	AS	AS								
Dilution Factor:	1.0	1.0								
ANALYTE	Result ppmv	RL ppmv	MDL ppmv	Result ppmv	RL ppmv	MDL ppmv				
Hydrogen Sulfide	ND	0.0050	0.0020	ND	0.0050	0.0020				

MDL = Method Detection Limit
 ND= Not Detected (below MDL)
 RL = Reporting Limit
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: _____
(Signature)
 Mark Johnson
 Operations Manager

Date 6/22/15

The cover letter is an integral part of this analytical report



QC Batch No.: 150610GC3A1
Matrix: Air
Units: ppmv

QC for Sulfur Compounds by ASTM D5504

Lab No.:	Method Blank			LCS		LCSD			
Date/Time Analyzed:	6/10/15 14:11			6/11/15 8:04		6/11/15 8:26			
Analyst Initials:	AS			AS		AS			
Datafile:	10jun009			10jun016		10jun017			
Dilution Factor:	1.0			1.0		1.0			
ANALYTE	Results	RL	MDL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.0050	0.0020	95	70-130%	82	70-130%	14.9	<30

ND = Not Detected (Below MDL)

RL = Reporting Limit

MDL = Method Detection Limit

J = Trace amount below the RL and equal to or above the MDL

Reviewed/Approved By: _____

Mark J. Johnson
Operations Manager

Date: _____

6/22/15

The cover letter is an integral part of this analytical report.



Client: CH2M Hill
 Attn: Andy Cramer
 Project Name: Former Norton AFB
 Project Number: 393091.NO.02.15.04
 Date Received: 6/10/2015
 Matrix: Vapor

TNMOC by EPA METHOD 25C
 Fixed Gases by EPA METHOD 3C

Lab Number:			G061004-01			G061004-02			G061004-03		
Client Sample ID:			LF2-E1-AA-061115			LF2-E2-AA-061115			LF2-GD-13-061115		
Date Collected:			6/9/2015 21:00			6/10/2015 9:00			6/10/2015 8:05		
Date Analyzed:			6/10/2015 13:32			6/10/2015 14:22			6/10/2015 15:22		
Analyst:			AS			AS			AS		
QC Batch:			150610GC8A1			150610GC8A1			150610GC8A1		
Dilution Factor:			1.0			1.0			1.0		
ANALYTE	Units	PQL	Result	RL	MDL	Result	RL	MDL	Result	RL	MDL
TNMOC	ppmv C	10	NA	10	3.0	NA	10	3.0	NA	10	3.0
TNMOC uncorr*	ppmv C	10	4.8 J	10	3.0	4.8 J	10	3.0	ND	10	3.0
Nitrogen	% v/v	1.0	81	1.0	0.38	80	1.0	0.38	81	1.0	0.38
Oxygen	% v/v	0.50	23	0.50	0.11	22	0.50	0.11	22	0.50	0.11
Carbon Dioxide	% v/v	0.010	0.047	0.010	0.00033	0.047	0.010	0.00033	0.046	0.010	0.00033
Methane	% v/v	0.0010	0.00021 J	0.0010	0.00011	0.00021 J	0.0010	0.00011	0.00020 J	0.0010	0.00011

ND = Not detected at or above reporting limit.
 PQL = Practical Quantitation Limit.
 TNMOC = Total Non-Methane Organic Carbon.
 TNMOC uncorr* = TNMOC concentration in sample without nitrogen/moisture correction.
 NA = Nitrogen/moisture correction causes division by zero.
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By:  Date: 6-24-15
 Mark Johnson
 Operations Manager

The cover letter is an integral part of this analytical report.




Client: CH2M Hill
 Attn: Andy Cramer
 Project Name: Former Norton AFB
 Project Number: 393091.NO.02.15.04
 Date Received: 6/10/2015
 Matrix: Vapor

TNMOC by EPA METHOD 25C
 Fixed Gases by EPA METHOD 3C

Lab Number:			G061004-04			G061004-05			G061004-06		
Client Sample ID:			LF2-GD-18-061115			LF2-W1-AA-061115			LF2-W2-AA-061115		
Date Collected:			6/10/2015 8:30			6/9/2015 21:00			6/10/2015 9:00		
Date Analyzed:			6/10/2015 16:23			6/10/2015 17:21			6/10/2015 18:19		
Analyst:			AS			AS			AS		
QC Batch:			150610GC8A1			150610GC8A1			150610GC8A1		
Dilution Factor:			1.0			1.0			1.0		
ANALYTE	Units	PQL	Result	RL	MDL	Result	RL	MDL	Result	RL	MDL
TNMOC	ppmv C	10	NA	10	3.0	NA	10	3.0	NA	10	3.0
TNMOC uncorr*	ppmv C	10	4.3 J	10	3.0	3.4 J	10	3.0	ND	10	3.0
Nitrogen	% v/v	1.0	80	1.0	0.38	81	1.0	0.38	81	1.0	0.38
Oxygen	% v/v	0.50	22	0.50	0.11	22	0.50	0.11	22	0.50	0.11
Carbon Dioxide	% v/v	0.010	0.046	0.010	0.00033	0.045	0.010	0.00033	0.048	0.010	0.00033
Methane	% v/v	0.0010	0.00035 J	0.0010	0.00011	0.00020 J	0.0010	0.00011	0.00042 J	0.0010	0.00011

ND = Not detected at or above reporting limit.
 PQL = Practical Quantitation Limit.
 TNMOC = Total Non-Methane Organic Carbon.
 TNMOC uncorr* = TNMOC concentration in sample without nitrogen/moisture correction.
 NA = Nitrogen/moisture correction causes division by zero.
 J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 6-24-15

The cover letter is an integral part of this analytical report.



GC/MS Raw Data Index

General Information

Lab Project No.: G061004

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Conventions and Conversions

$$1 \text{ ppbv} = 0.001 \text{ ppmv} = 0.0000001\% \text{ v/v}$$
$$1\% \text{ v/v} = 10,000 \text{ ppmv} = 10,000,000 \text{ ppbv}$$

$$1 \text{ ug/m}^3 = 1 \text{ ng/L} = \text{ppbv} \times \text{MW}/24.45$$
$$1 \text{ ug/L} = 1 \text{ mg/m}^3 = \text{ppmv} \times \text{MW}/24.45$$

Where **MW** is the molecular weight of the compound
and 24.45 is the molar volume of ideal gas at
1 atmosphere and 25° C.

$$1 \text{ atmosphere} = 14.6 \text{ psia} = 0 \text{ psig}$$
$$30" \text{ Hg} = 0 \text{ psia} = -14.6 \text{ psig}$$

Standard pressure is taken as 14.6 psia at Air Technology Labs' facility.

1. Supporting Documents

- a. Pressurization log (if applicable)
- b. ICAL run log
- c. CCAL/QC/Samples run log
- d. Miscellaneous documents

G061004

Instrument ID: GCMS2
 Analytical Method: 7015D603
 Datafile Directory: 150601

GCMS Injection Logbook

Chemist: BT
 Blank Lot #: 1200212
 IS/Surr Standard Code: AW1209203

Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
6/7/15	18:53	07 JUN 010	G052805-02	EPA	50	$\frac{21.6}{10.46}$		2.351	3	OK		
↓	19:34		11 ↓ -03	↓	↓	↓ 9.73		2.527	4	OK		
6/8/15	08:40		12 Justice Rd	AW1209601	50			1.0	15	OK	9/20 ppw	
	09:21		13 Blawie	-	200			0.2	8	OK		
	10:01		14 G052202-01	Battelle	50	$\frac{21.6}{19.11}$				OK		
	10:41		15 -02	↓						NO	15 fail	
	11:22		16 -03	↓								
	12:02		17 -04	↓								
6/8/15	12:48	08 JUN 001	BFA	AW1209203	150	-	-	1.0	-			
	13:38		002 BFB									
	14:19		003 BFB								EM 2313 → 2318	
	15:02		004 BFB								EM 2318 - 2282	
	15:46		005 BFB									
	16:31		006 euv	AW1209108	50							
	17:26		007 Room air	-	50							
	18:06		008 -u-									
	18:47		009 -u-									
	19:28		010 -u-									
	20:09		011 BFB	AW1209203	150						EM 2282	150608MS2A
↓	20:49	↓	012 BFB	↓	↓	↓	↓	↓	↓			↓

Approved by/Date: _____
 Logbook #30

Air Technology Laboratories

17 of 222

Instrument ID: GCMS2
 Analytical Method: 70150608
 Datafile Directory: 150601

GCMS Injection Logbook

Chemist: J
 Blank Lot #: 1200212
 IS/Surr Standard Code: AW1209203/AW120

Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
6/8/15	21:30	08 JUN 013	1.0 p/bv /catz	AW1209507	50	-	-	1.0	1	NO		150608MS2A
	22:10	014	1.0		↓					OK		
	22:51	015	2.5		125					NO		
	23:33	016	2.5		↓					OK		
6/9/15	00:15	017	5.0		250					NO		
	00:59	018	5.0		↓					OK		
	01:40	019	7.0	AW1209508	35				13	NO		
	02:21	020	7.0		↓					OK		
	03:02	021	10		50					OK		
	03:42	022	10		↓					NO		
	04:23	023	25		125					OK		
	05:04	024	100	AW1209509	50				13	↓		
	05:46	025	250 ↓ ↓		125					↓		
	06:37	026	Blank	-	250			0.2	8	-		
	07:13	027	1cu /ces	AW1209510	50			1.0	8	OK		
	07:54	028	1cu /ces		↓				8	OK		
	08:37	↓ 029	Blank	-	250			0.2	8	NO	new 15/surr for Mr. Wood	↓
	09:36	097 JUN 001	5m cu	AW1209511	125			1.0	1	NO	Run new 1catz	-
	10:57	002	Mr Wood Blank	-	250			0.2	8	OK		150608MS2A1
	11:13	↓ 003	G002101-01	HDR	50	mlc 8.76	800 100	22.764	2			↓

Approved by/Date: _____
 Logbook #30

Instrument ID: GCMS2
 Analytical Method: 70150608
 Datafile Directory: 150608

GCMS Injection Logbook

Chemist: J5
 Blank Lot #: 120
 IS/Surr Standard Code: AW1209605

Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
		097UN001	Sim cev	AW1209605	125							
6/9/15	11:54	097UN004	G052703-01	SCS	50	24.6 8.03	900 30	41.92	3	OK		150608MS2A7
	12:35	005	G012904-01	Tekated	50	24.6 12.61	1000 50	38.68	4	OK		
	13:17	006	-02			12.61	100 100	9.7	5			
	13:59	007	-03			12.61	1000 100	19.82	6			
	14:53	008	Gasolin Std	AW1209605	50	-	-	1.0	15	OK	9170 ppbv	
	15:35	009	Blank	-	250	-	-	1.0	8	OK		
	16:23	010	G052202-02	Bottle	50	24.6 14.11	500 100	8.715	7	OK		
	17:27	011	-03			15.82	-	1.774	9			
	18:24	012	-04			14.11	-	1.773	10			
		013	Blank	-	250	-	-	1.0	8	NO	system contains	150608MS2A2
		014	Blank									
		015	Blank									
		016										
		017										
		018										
		019										
		020										
		021										
		022										

Approved by/Date: _____
 Logbook #30

Instrument ID: GCMS2
 Analytical Method: TD 150608
 Datafile Directory: 150608

GCMS Injection Logbook

Chemist: B
 Blank Lot #: 1200212
 IS/Surr Standard Code: AW1209605

Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
6/10/15	12:57	107UN001	BFB	AW1209605	150	-	-	1.0	-	OK		150610MS2A
	13:50	002	CCV	AW1209508	50				6	NO	Force 12 resp. <	
	14:48	003	CCV									
	15:47	004	CCV								Control resp <	
	17:16	005	CCV							OK	change CN ₂ valve.	
	17:57	006	CCV	AW1209520					6	OK		
	18:38	007	CCV							OK		
	19:19	008	Method Blank	-	250			0.2	2	OK	back flush all 3 hrs	
	20:00	009	G061004-01	CH ₂ M	50			1.0	1	OK		
	20:40	010		-02					3			
	21:00	011		-03					4			
	22:01	012		-04					5			
	22:41	013		-05					6			
	23:21	014		-06					7			
6/11/15	00:01	015	G060302-01	PEs	95	M.6 12.9		1.0	8	OK		
	00:41	016		-02	75			1.27	9	OK		
	01:22	017		-02	50			1.907	9	NO	2/P	
	02:02	018	G060305-01	TA	50	M.6 14.36		1.713	10	NO	MUSE 9/R	
	02:41	019		-02	50			2.45	11	NO	1,1,1-TEA 9/R	
	03:21	020	G060405-03	CH ₂ M	50	M.6 12.17		2.022	12	OK		

Approved by/Date: _____
 Logbook #30

Instrument ID: GCMS2
 Analytical Method: T0150608
 Datafile Directory: 150608

GCMS Injection Logbook

Chemist: JS
 Blank Lot #: 1200212
 IS/Surr Standard Code: AW1209605

Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
6/11/15	04:01	10740021	G060405-04	CH ₆ M	50	24.6 12.19	-	2.022	13	OK		150610452A1
	04:40	022	G060305-03	TA	350 FD 10	24.6 14.36	1000 50	48.94	14	OK		
	05:20	023	G060405-01	CH ₆ M	50	24.6 11.68	500 x 800 100	8427	15	NO	o/d	
	05:59	024	-02	L	L	11.92	1000 4.0	515.75	16	L	o/d	
	06:40	025	Sim Blank	-	250	-	-	1.0	2	-		
	07:20	026	Sim System Bl	L	50	15 only	-	-	2	-		
	07:59	027	Sim Inst Bl	L	0	-	-	-	2	-	Re-run	
	08:41	028	G060405-02	CH ₆ M	100	24.6 11.95	1000 4.0	227.875	16	OK		
	09:22	029	-01	L	L	41.68	1000 x 500 100	4212	15	OK		
	10:02	030	G060305-01	TA	50	24.6 14.36	300 100	5.139	10	NO	Matrix o/d	
	10:42	031	-01	L	35	L	L	12.235	10	OK		
	11:22	032	-02	L	50	L	500 100	8.565	11	OK		
	12:03	033	G060501-01	AECOM	50	24.6 13.14	-	1.872	1	OK		
	12:49	034	Sim Inst Bl	-	0	-	-	-	-	-	New trap	
	16:26	035	Sim Blank	-	250	-	-	1.0	2			
	17:07	036										
	17:48	037										
	18:41	038										
	19:26	039										
	20:08	040										
6/12/15	06:41	041										

Approved by/Date: _____
 Logbook #30

2. Sample Raw Data

a. Results/Chromatograms/Spectra

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\data\150608\10JUN001.D

Tune Time : 10 Jun 2015 12:57

Daily Calibration File : C:\msdchem\1\data\150608\10JUN005.D

File	Sample	Surrogate Recovery %			46583	210230	163836
Internal Standard Responses							
10JUN006.D	LCS	88	107	72	46439	208654	158086
10JUN007.D	LCSD	87	106	70	45931	212629	163174
10JUN008.D	METHOD BLANK	85	104	69*	44883	209211	154556
10JUN009.D	G061004-01	86	104	73	43842	211550	163381
10JUN010.D	G061004-02	86	106	73	45113	216059	166380
10JUN011.D	G061004-03	86	108	74	45203	216249	167027
10JUN012.D	G061004-04	86	108	71	45521	219428	172646
10JUN013.D	G061004-05	84	107	73	44376	219825	167961
10JUN014.D	G061004-06	85	108	72	45534	218965	169969

(fails) - fails 24hr time check * - fails criteria

Created: Thu Jun 18 15:33:17 2015 ms2

Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN009.D
 Acq On : 10 Jun 2015 20:00
 Operator : DT
 Sample : G061004-01 CH2M
 Misc : 50ML
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 20:24:41 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

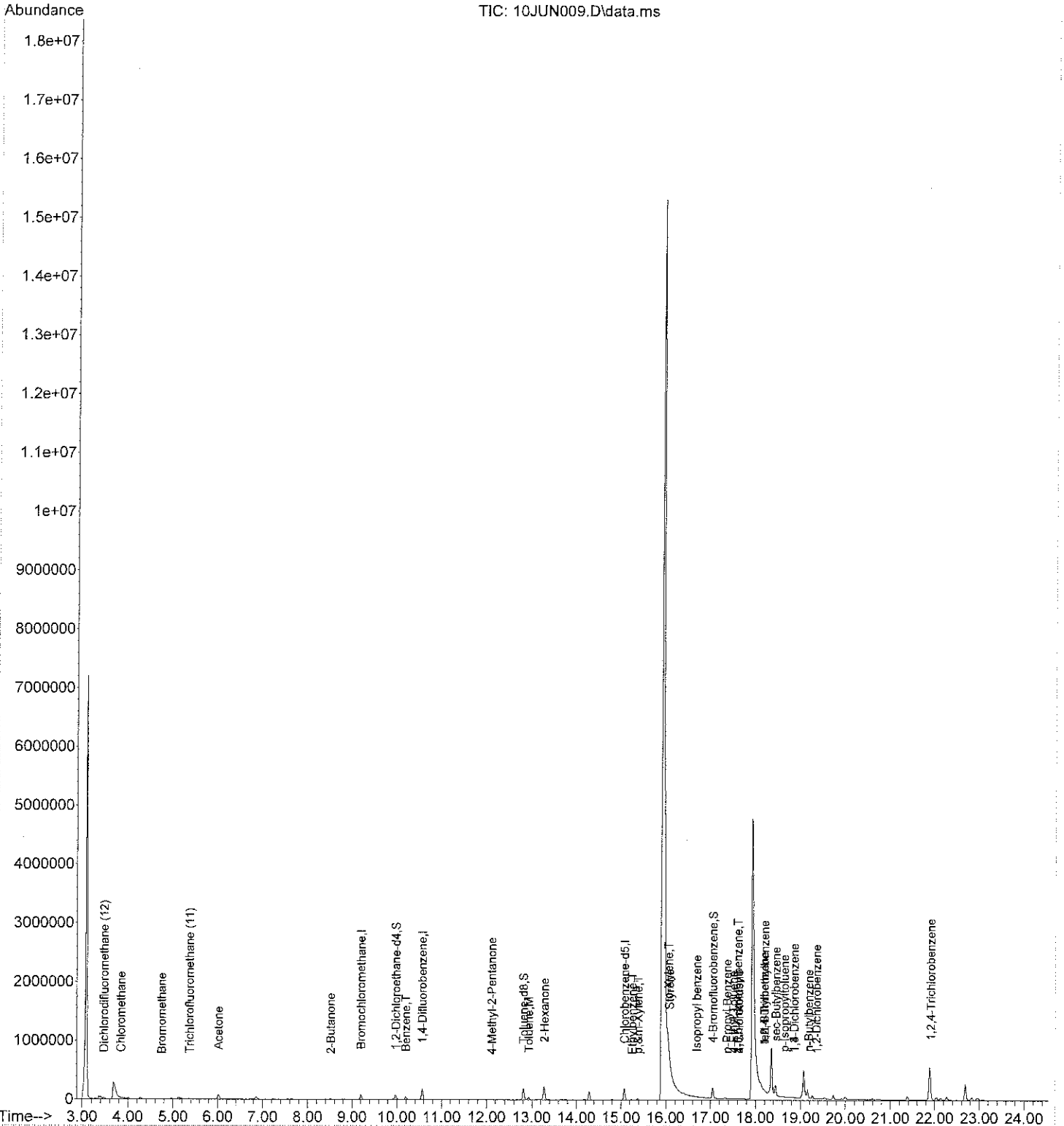
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Bromochloromethane	9.204	130	43842	10.00	ppbv	0.00	
24) 1,4-Difluorobenzene	10.561	114	211550	10.00	ppbv	0.00	
36) Chlorobenzene-d5	15.080	117	163381	10.00	ppbv	0.00	
System Monitoring Compounds							
26) 1,2-Dichloroethane-d4	9.976	65	67783	8.56	ppbv	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery	=	85.60%		
34) Toluene-d8	12.808	98	181917	10.45	ppbv	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery	=	104.50%		
53) 4-Bromofluorobenzene	17.053	174	80860	7.34	ppbv	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery	=	73.40%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethan...	3.472	85	11748	0.44	ppbv		96
3) Chloromethane	3.845	50	4980	0.59	ppbv		100
6) Bromomethane	4.742	94	924	0.25	ppbv		77
8) Trichlorofluoromethane...	5.370	101	5295	0.20	ppbv		88
12) Acetone	6.011	43	152846	8.10	ppbv		92
18) 2-Butanone	8.507	72	2376	0.51	ppbv #		22
25) Benzene	10.194	78	50059	1.33	ppbv		97
33) 4-Methyl-2-Pentanone	12.117	43	4094	0.17	ppbv		44
35) Toluene	12.927	91	43411	0.98	ppbv		99
41) 2-Hexanone	13.281	58	1863	0.17	ppbv #		1
46) Ethylbenzene	15.248	91	9154	0.20	ppbv		89
47) p, &m-Xylene	15.379	91	19995	0.56	ppbv		99
48) o-Xylene	16.058	91	10667	0.30	ppbv		93
49) Styrene	16.076	104	3559	0.14	ppbv		81
51) Isopropyl benzene	16.686	105	3478	0.08	ppbv #		58
56) n-Propyl Benzene	17.365	91	4082	0.09	ppbv #		53
58) 4-Ethyl Toluene	17.508	105	13979	0.30	ppbv		87
59) 1,3,5-Trimethylbenzene	17.607	105	4054	0.09	ppbv		76
60) 2-Chlorotoluene	17.626	91	1212	0.03	ppbv #		51
61) 4-Chlorotoluene	17.626	91	1212	0.04	ppbv #		49
62) tert-Butylbenzene	18.192	119	1530	0.04	ppbv #		88
63) 1,2,4-Trimethylbenzene	18.199	105	16805	0.39	ppbv		95
64) sec-Butylbenzene	18.454	105	1505	0.03	ppbv		60
65) p-Isopropyltoluene	18.641	119	3325	0.09	ppbv #		57
66) 1,3-Dichlorobenzene	18.858	146	1473	0.05	ppbv		77
67) 1,4-Dichlorobenzene	18.858	146	1473	0.05	ppbv		79
68) n-Butylbenzene	19.182	91	3030	0.10	ppbv #		88
69) 1,2-Dichlorobenzene	19.356	146	1090	0.04	ppbv		55
71) 1,2,4-Trichlorobenzene	21.915	180	3167	0.18	ppbv		60

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN009.D
 Acq On : 10 Jun 2015 20:00
 Operator : DT
 Sample : G061004-01 CH2M
 Misc : 50ML
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 20:24:41 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration



Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN010.D
 Acq On : 10 Jun 2015 20:40
 Operator : DT
 Sample : G061004-02 CH2M
 Misc : 50ML
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 10 21:04:52 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

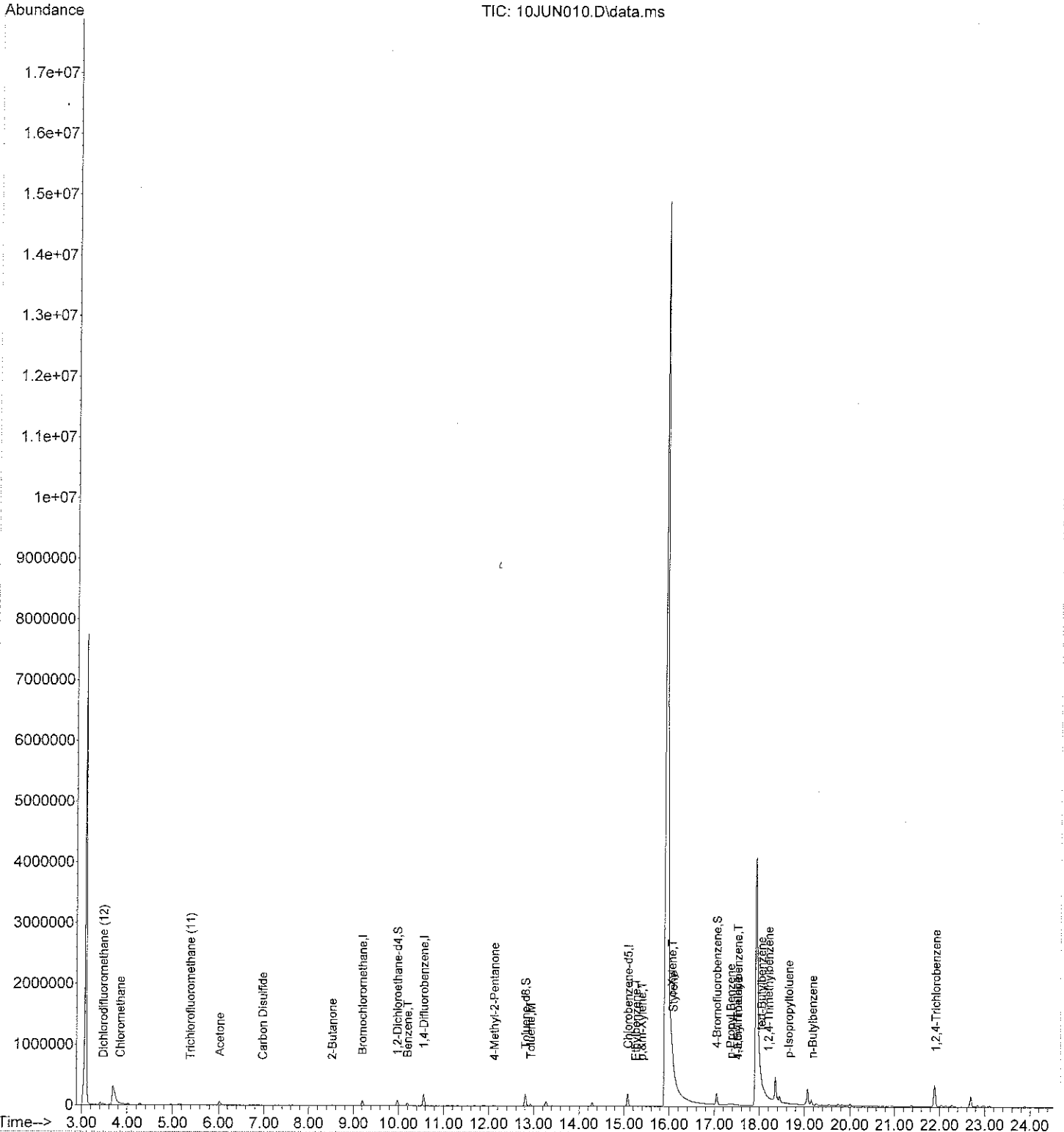
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	9.205	130	45113	10.00	ppbv	0.00
24) 1,4-Difluorobenzene	10.562	114	216059	10.00	ppbv	0.00
36) Chlorobenzene-d5	15.080	117	166380	10.00	ppbv	0.00
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	9.970	65	69833	8.63	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	86.30%	
34) Toluene-d8	12.809	98	188884	10.62	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	106.20%	
53) 4-Bromofluorobenzene	17.047	174	81455	7.27	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	72.70%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethan...	3.472	85	12104	0.44	ppbv	99
3) Chloromethane	3.845	50	5904	0.68	ppbv	100
8) Trichlorofluoromethane...	5.389	101	4576	0.17	ppbv	88
10) Carbon Disulfide	6.964	76	1166	0.05	ppbv	74
12) Acetone	6.018	43	113810	5.86	ppbv	89
18) 2-Butanone	8.520	72	2050	0.42	ppbv #	18
25) Benzene	10.194	78	51850	1.35	ppbv	98
33) 4-Methyl-2-Pentanone	12.124	43	2538	0.10	ppbv	44
35) Toluene	12.927	91	32305	0.71	ppbv	98
46) Ethylbenzene	15.249	91	4854	0.10	ppbv	99
47) p,&m-Xylene	15.385	91	11065	0.30	ppbv	95
48) o-Xylene	16.058	91	5510	0.15	ppbv	86
49) Styrene	16.083	104	3169	0.12	ppbv	82
56) n-Propyl Benzene	17.359	91	1325	0.03	ppbv #	53
58) 4-Ethyl Toluene	17.520	105	3762	0.08	ppbv	82
59) 1,3,5-Trimethylbenzene	17.520	105	3761	0.09	ppbv	77
62) tert-Butylbenzene	18.043	119	1050	0.03	ppbv #	1
63) 1,2,4-Trimethylbenzene	18.199	105	3874	0.09	ppbv	89
65) p-Isopropyltoluene	18.641	119	2100	0.06	ppbv #	70
68) n-Butylbenzene	19.176	91	999	0.03	ppbv #	92
71) 1,2,4-Trichlorobenzene	21.915	180	1150	0.06	ppbv	65

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN010.D
 Acq On : 10 Jun 2015 20:40
 Operator : DT
 Sample : G061004-02 CH2M
 Misc : 50ML
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 10 21:04:52 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration



Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN011.D
 Acq On : 10 Jun 2015 21:20
 Operator : DT
 Sample : G061004-03 CH2M
 Misc : 50ML
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 10 21:45:25 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

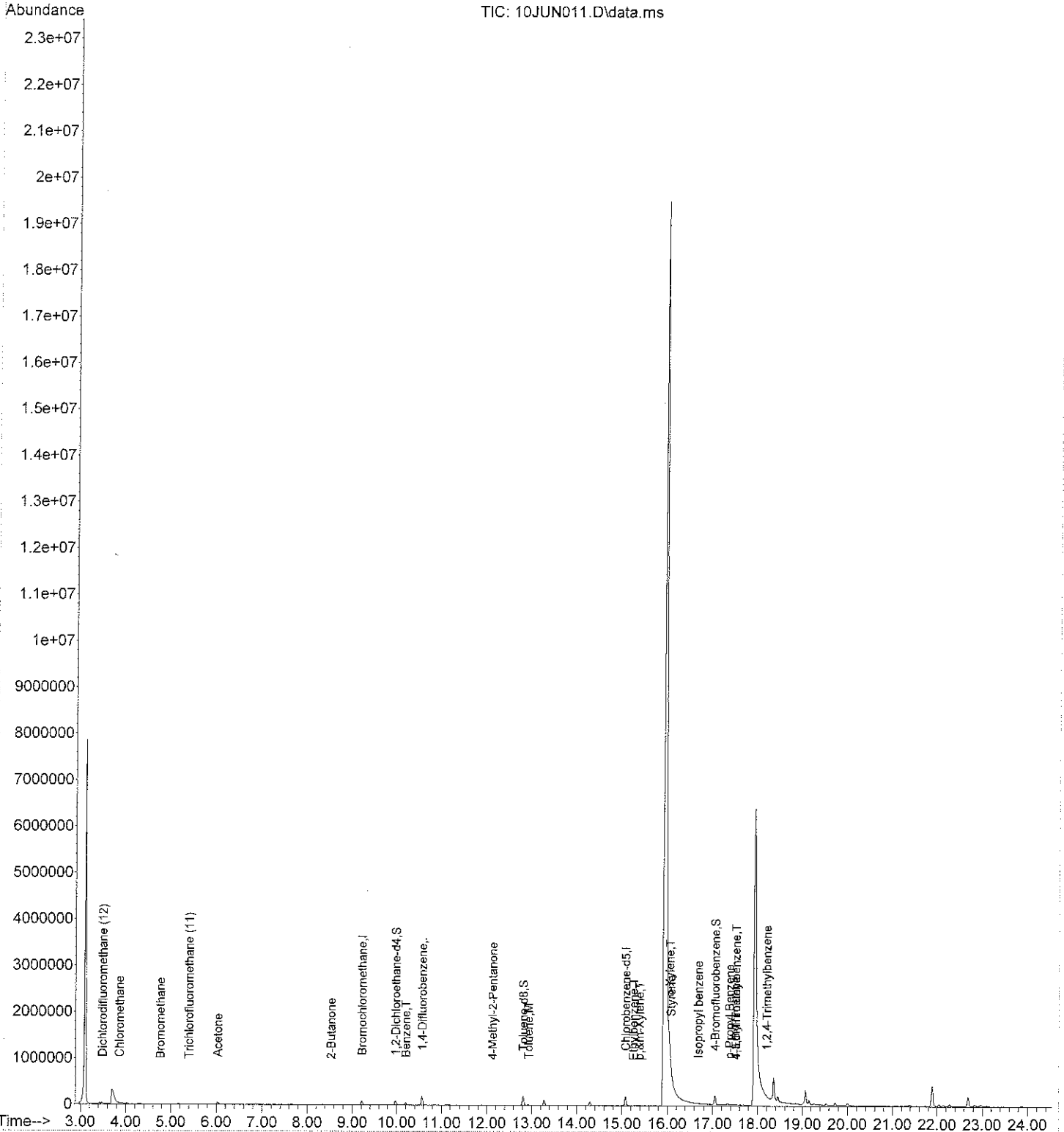
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	9.211	130	45203	10.00	ppbv	0.00
24) 1,4-Difluorobenzene	10.568	114	216249	10.00	ppbv	0.00
36) Chlorobenzene-d5	15.081	117	167027	10.00	ppbv	0.00
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	9.976	65	69553	8.59	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	85.90%		
34) Toluene-d8	12.809	98	192994	10.84	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	108.40%		
53) 4-Bromofluorobenzene	17.047	174	83085	7.38	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	73.80%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethan...	3.484	85	12091	0.43	ppbv	94
3) Chloromethane	3.858	50	5934	0.68	ppbv	88
6) Bromomethane	4.760	94	1619	0.42	ppbv	66
8) Trichlorofluoromethane...	5.395	101	4971	0.18	ppbv	75
12) Acetone	6.030	43	94023	4.83	ppbv	89
18) 2-Butanone	8.526	72	1211	0.25	ppbv #	1
25) Benzene	10.201	78	53149	1.38	ppbv	97
33) 4-Methyl-2-Pentanone	12.124	43	1489	0.06	ppbv	44
35) Toluene	12.927	91	23468	0.52	ppbv	94
46) Ethylbenzene	15.249	91	3409	0.07	ppbv	94
47) p,&m-Xylene	15.385	91	7255	0.20	ppbv	94
48) o-Xylene	16.045	91	3777	0.10	ppbv	79
49) Styrene	16.070	104	2691	0.10	ppbv #	31
51) Isopropyl benzene	16.674	105	2790	0.06	ppbv #	58
56) n-Propyl Benzene	17.365	91	1071	0.02	ppbv #	53
58) 4-Ethyl Toluene	17.514	105	3627	0.08	ppbv	52
59) 1,3,5-Trimethylbenzene	17.514	105	3626	0.08	ppbv	39
63) 1,2,4-Trimethylbenzene	18.193	105	4510	0.10	ppbv	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN011.D
 Acq On : 10 Jun 2015 21:20
 Operator : DT
 Sample : G061004-03 CH2M
 Misc : 50ML
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 10 21:45:25 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration



Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN012.D
 Acq On : 10 Jun 2015 22:01
 Operator : DT
 Sample : G061004-04 CH2M
 Misc : 50ML
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 10 22:25:41 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

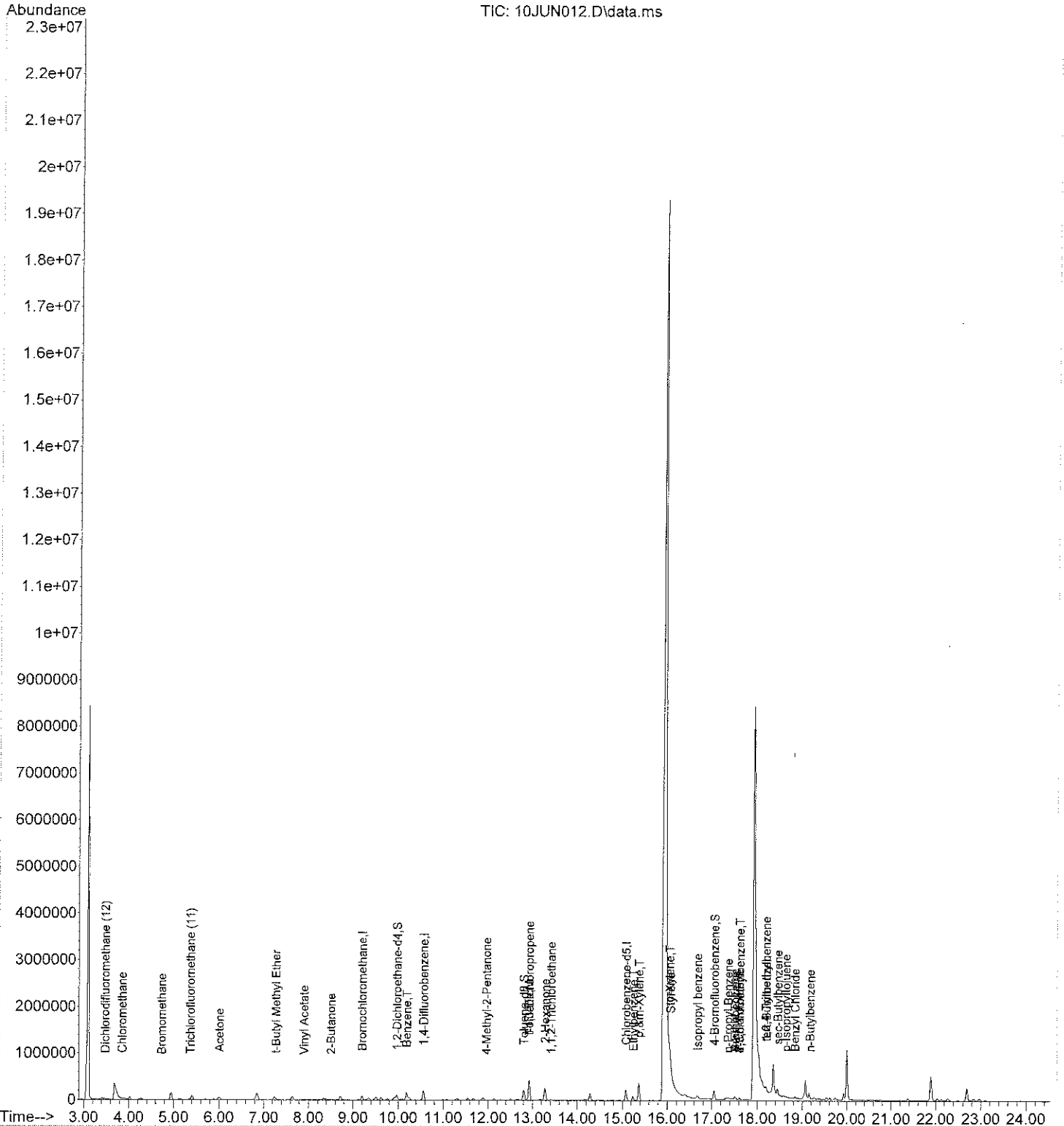
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	9.204	130	45521	10.00	ppbv	0.00
24) 1,4-Difluorobenzene	10.561	114	219428	10.00	ppbv	0.00
36) Chlorobenzene-d5	15.080	117	172646	10.00	ppbv	0.00
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	9.970	65	70310	8.56	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	85.60%	
34) Toluene-d8	12.802	98	195371	10.82	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	108.20%	
53) 4-Bromofluorobenzene	17.053	174	82678	7.11	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	71.10%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethan...	3.472	85	12527	0.45	ppbv	94
3) Chloromethane	3.845	50	6114	0.70	ppbv	96
6) Bromomethane	4.735	94	1712	0.44	ppbv #	47
8) Trichlorofluoromethane...	5.370	101	5379	0.20	ppbv	87
12) Acetone	6.011	43	113671	5.80	ppbv	89
16) Vinyl Acetate	7.897	43	453	0.02	ppbv	76
18) 2-Butanone	8.501	72	4382	0.90	ppbv #	49
19) t-Butyl Methyl Ether	7.275	73	19164	0.73	ppbv	1
25) Benzene	10.188	78	172296	4.42	ppbv	98
33) 4-Methyl-2-Pentanone	11.962	43	7438	0.30	ppbv	44
35) Toluene	12.920	91	431338	9.38	ppbv	98
37) t-1,3-Dichloropropene	12.920	75	2416	0.23	ppbv #	1
38) 1,1,2-Trichloroethane	13.412	97	4702	0.39	ppbv #	25
41) 2-Hexanone	13.275	58	3260	0.27	ppbv #	1
46) Ethylbenzene	15.242	91	95011	1.93	ppbv	99
47) p,&m-Xylene	15.373	91	320377	8.50	ppbv	98
48) o-Xylene	16.051	91	115005	3.03	ppbv	98
49) Styrene	16.070	104	6244	0.24	ppbv #	13
51) Isopropyl benzene	16.674	105	65794	1.48	ppbv	94
54) Benzyl Chloride	18.834	91	1260	0.08	ppbv	67
56) n-Propyl Benzene	17.358	91	12261	0.25	ppbv	98
57) Bromobenzene	17.514	77	8205	0.36	ppbv #	32
58) 4-Ethyl Toluene	17.508	105	75477	1.52	ppbv	94
59) 1,3,5-Trimethylbenzene	17.614	105	27190	0.60	ppbv	91
60) 2-Chlorotoluene	17.607	91	2713	0.07	ppbv #	51
61) 4-Chlorotoluene	17.607	91	2713	0.08	ppbv #	49
62) tert-Butylbenzene	18.199	119	6632	0.16	ppbv #	76
63) 1,2,4-Trimethylbenzene	18.192	105	57797	1.27	ppbv	95
64) sec-Butylbenzene	18.454	105	1321	0.03	ppbv	60
65) p-Isopropyltoluene	18.634	119	11242	0.29	ppbv	84
68) n-Butylbenzene	19.176	91	2584	0.08	ppbv #	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN012.D
 Acq On : 10 Jun 2015 22:01
 Operator : DT
 Sample : G061004-04 CH2M
 Misc : 50ML
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 10 22:25:41 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration



Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN013.D
 Acq On : 10 Jun 2015 22:41
 Operator : DT
 Sample : G061004-05 CH2M
 Misc : 50ML
 ALS Vial : 6 Sample Multiplier: 1

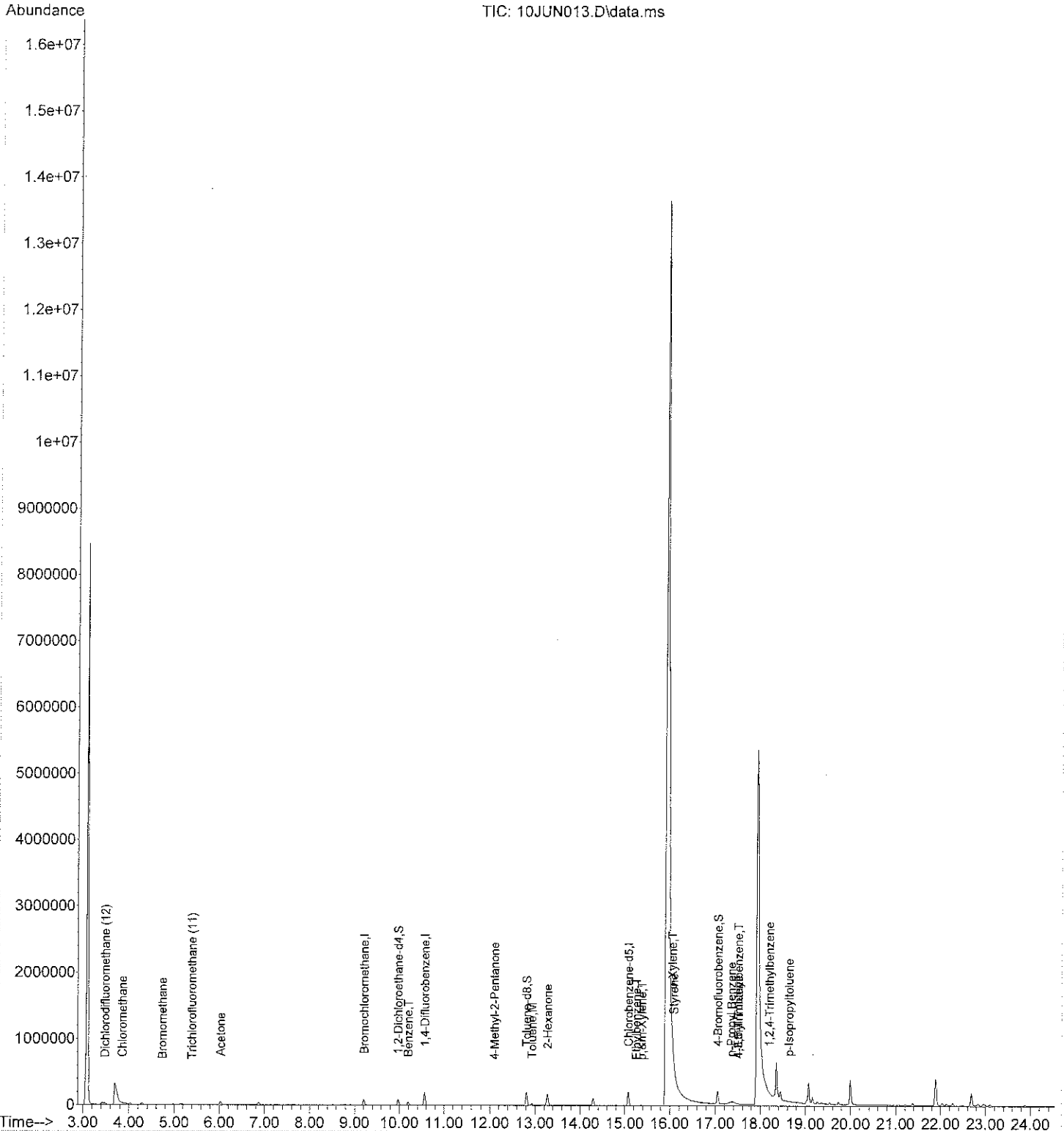
Quant Time: Jun 10 23:05:58 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.211	130	44376	10.00	ppbv	0.00
24) 1,4-Difluorobenzene	10.568	114	219825	10.00	ppbv	0.00
36) Chlorobenzene-d5	15.080	117	167961	10.00	ppbv	0.00
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	9.970	65	69402	8.43	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	84.30%	
34) Toluene-d8	12.809	98	193864	10.71	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	107.10%	
53) 4-Bromofluorobenzene	17.054	174	82739	7.31	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	73.10%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethan...	3.478	85	12391	0.45	ppbv	96
3) Chloromethane	3.852	50	6717	0.79	ppbv	100
6) Bromomethane	4.736	94	2996	0.80	ppbv #	10
8) Trichlorofluoromethane...	5.395	101	5094	0.19	ppbv	85
12) Acetone	6.030	43	97219	5.09	ppbv	90
25) Benzene	10.194	78	53768	1.38	ppbv	94
33) 4-Methyl-2-Pentanone	12.099	43	1293	0.05	ppbv	44
35) Toluene	12.927	91	27363	0.59	ppbv	97
41) 2-Hexanone	13.275	58	1279	0.11	ppbv #	1
46) Ethylbenzene	15.255	91	4375	0.09	ppbv	45
47) p, &m-Xylene	15.379	91	6726	0.18	ppbv	82
48) o-Xylene	16.051	91	3695	0.10	ppbv	86
49) Styrene	16.083	104	2280	0.09	ppbv	93
56) n-Propyl Benzene	17.352	91	1404	0.03	ppbv #	53
58) 4-Ethyl Toluene	17.508	105	3153	0.07	ppbv	52
59) 1,3,5-Trimethylbenzene	17.508	105	3152	0.07	ppbv	39
63) 1,2,4-Trimethylbenzene	18.193	105	3456	0.08	ppbv	97
65) p-Isopropyltoluene	18.635	119	1836	0.05	ppbv #	49

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN013.D
 Acq On : 10 Jun 2015 22:41
 Operator : DT
 Sample : G061004-05 CH2M
 Misc : 50ML
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 10 23:05:58 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration



Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN014.D
 Acq On : 10 Jun 2015 23:21
 Operator : DT
 Sample : G061004-06 CH2M
 Misc : 50ML
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 10 23:46:04 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

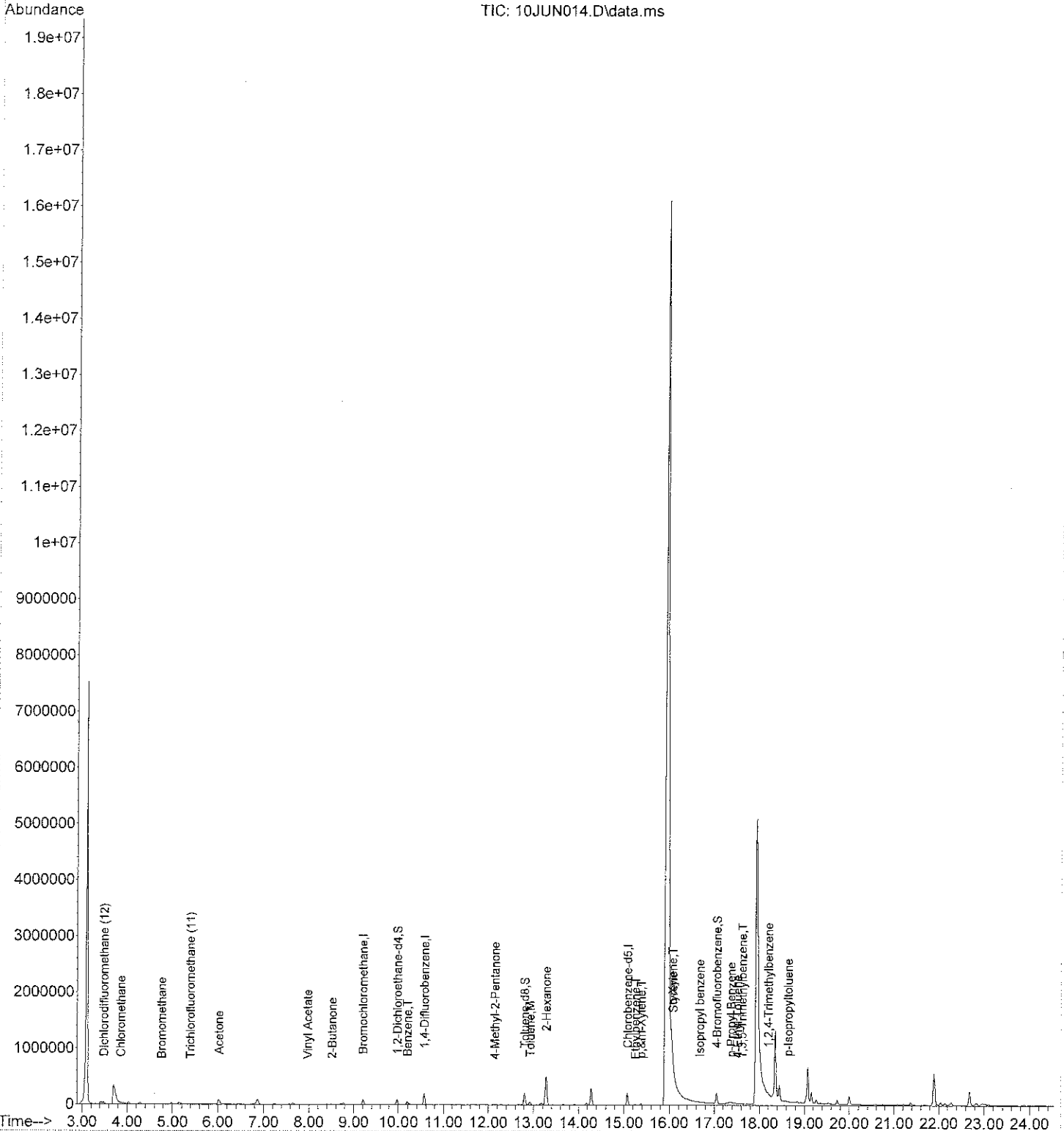
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Bromochloromethane	9.204	130	45534	10.00	ppbv	0.00	
24) 1,4-Difluorobenzene	10.568	114	218965	10.00	ppbv	0.00	
36) Chlorobenzene-d5	15.080	117	169969	10.00	ppbv	0.00	
System Monitoring Compounds							
26) 1,2-Dichloroethane-d4	9.976	65	69560	8.49	ppbv	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery	=	84.90%		
34) Toluene-d8	12.808	98	195421	10.84	ppbv	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery	=	108.40%		
53) 4-Bromofluorobenzene	17.053	174	82611	7.21	ppbv	0.00	
Spiked Amount	10.000	Range 70 - 130	Recovery	=	72.10%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethan...	3.484	85	12111	0.43	ppbv		96
3) Chloromethane	3.858	50	6820	0.78	ppbv		95
6) Bromomethane	4.760	94	3254	0.84	ppbv		52
8) Trichlorofluoromethane...	5.389	101	5263	0.19	ppbv		87
12) Acetone	6.018	43	161568	8.24	ppbv		93
16) Vinyl Acetate	7.966	43	1678	0.06	ppbv		76
18) 2-Butanone	8.514	72	3062	0.63	ppbv #		32
25) Benzene	10.194	78	57972	1.49	ppbv		96
33) 4-Methyl-2-Pentanone	12.142	43	3897	0.16	ppbv		42
35) Toluene	12.927	91	56322	1.23	ppbv		91
41) 2-Hexanone	13.275	58	5651	0.48	ppbv #		1
46) Ethylbenzene	15.248	91	12794	0.26	ppbv		99
47) p,&m-Xylene	15.379	91	24741	0.67	ppbv		98
48) o-Xylene	16.064	91	12157	0.33	ppbv		92
49) Styrene	16.076	104	3557	0.14	ppbv		84
51) Isopropyl benzene	16.674	105	2096	0.05	ppbv #		58
56) n-Propyl Benzene	17.365	91	2959	0.06	ppbv #		53
58) 4-Ethyl Toluene	17.514	105	10036	0.20	ppbv		93
59) 1,3,5-Trimethylbenzene	17.614	105	3056	0.07	ppbv		39
63) 1,2,4-Trimethylbenzene	18.199	105	11977	0.27	ppbv		92
65) p-Isopropyltoluene	18.634	119	1993	0.05	ppbv #		49

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN014.D
 Acq On : 10 Jun 2015 23:21
 Operator : DT
 Sample : G061004-06 CH2M
 Misc : 50ML
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 10 23:46:04 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration



3. Initial Calibration

- a. ICAL Summary
- b. Results/Chromatograms

Default Initial Calibration Criteria:

90% of target compounds must have RSD <30%
All target compounds must have RSD <50%

(This criteria superceded by any project specific criteria)

Method Path : C:\msdchem\1\methods\
 Method File : TO150608.M
 Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 Last Update : Tue Jun 09 09:17:28 2015
 Response Via : Initial Calibration

Calibration Files

1.0 =08JUN014.D 2.5 =08JUN016.D 5 =08JUN018.D 7 =08JUN020.D 10 =08JUN021.D 25 =08JUN023.D 100 =08JUN024.D
 250 =08JUN025.D

Compound	1.0	2.5	5	7	10	25	100	250	Avg	%RSD
1) I Bromochloromethane	-----ISTD-----									
2) Dichlorodifluo...	7.041	6.724	6.642	6.869	6.763	6.099	5.368	3.737	6.155	18.11
3) Chloromethane	2.544	2.223	1.998	2.093	1.989	1.744	1.597	1.153	1.918	21.99
4) 1,2-Cl-1,1,2,2...	6.099	6.197	6.084	6.363	6.134	5.647	4.889	3.368	5.598	18.11
5) Vinyl Chloride	1.857	2.081	2.046	2.106	2.069	1.961	1.813	1.314	1.906	13.76
6) Bromomethane	1.037	0.791	0.696	1.214	0.923	0.763	0.795	0.573	0.849	23.88
7) Chloroethane	0.183	0.347	0.210	0.391	0.364	0.305	0.306	0.214	0.290	27.01
8) Trichlorofluor...	6.733	6.497	6.523	6.735	6.563	6.094	5.425	3.866	6.055	16.26
9) M 1,1-Dichloroet...	3.920	4.121	4.065	4.279	4.152	3.893	3.476	2.505	3.801	15.18
10) Carbon Disulfide	5.691	5.465	5.710	5.983	5.902	5.553	5.275	3.786	5.421	12.89
11) 1,1,2-Cl 1,2,2...	4.791	4.670	4.698	4.792	4.692	4.294	3.784	2.583	4.288	17.95
12) Acetone		5.787	5.710	4.028	3.858	3.367	3.071		4.304	27.20
13) M Methylene Chlo...	2.144	2.004	1.961	2.043	2.057	1.864	1.737	1.242	1.881	15.27
14) t-1,2-Dichloro...	2.099	2.176	2.184	2.382	2.363	2.180	2.046	1.464	2.112	13.57
15) 1,1-Dichloroet...	4.502	4.703	4.586	4.805	4.707	4.326	3.843	2.659	4.266	16.81
16) Vinyl Acetate	6.198	6.587	6.975	6.858	6.744	6.391	5.983	4.278	6.252	13.83
17) c-1,2-Dichloro...	2.363	2.532	2.520	2.706	2.579	2.438	2.180	1.478	2.350	16.39
18) 2-Butanone	1.140	1.219	1.211	1.118	1.153	1.048	0.995	0.697	1.073	15.81
19) t-Butyl Methyl...	6.397	6.400	6.290	6.396	6.237	5.730	5.150	3.846	5.806	15.60
20) t Chloroform	5.148	5.304	5.248	5.435	5.330	4.942	4.486	3.186	4.885	15.33
21) 1,1,1-Trichlor...	4.623	4.866	5.035	5.243	5.088	4.885	4.573	3.267	4.697	13.21
22) 1,1-Dichloropr...	3.169	3.169	3.173	3.359	3.263	3.083	2.745	1.939	2.988	15.40
23) t Carbon Tetrach...	3.702	5.093	4.259	4.667	4.672	4.630	4.531	3.201	4.345	14.07
24) I 1,4-Difluorobenzene	-----ISTD-----									
25) T Benzene		2.278	1.891	1.895	1.759	1.584	1.593	1.426	1.775	15.82
26) S 1,2-Dichloroet...	0.332	0.329	0.340	0.347	0.342	0.364	0.432	0.509	0.374	17.02
27) 1,2-Dichloroet...	0.717	0.710	0.710	0.802	0.782	0.741	0.773	0.699	0.742	5.27
28) M Trichloroethene	0.740	0.751	0.739	0.858	0.812	0.778	0.738	0.635	0.756	8.60
29) 1,2-Dichloropr...	0.585	0.589	0.574	0.635	0.610	0.584	0.606	0.549	0.591	4.34
30) Bromodichlorom...	0.789	0.871	0.902	1.062	1.049	1.038	1.128	0.985	0.978	11.66
31) Dibromomethane	0.479	0.536	0.519	0.608	0.580	0.555	0.568	0.488	0.542	8.28
32) c-1,3-Dichloro...	0.523	0.617	0.654	0.738	0.733	0.760	0.881	0.811	0.715	15.88
33) 4-Methyl-2-Pen...	1.118	1.136	1.119	1.162	1.120	1.089	1.170	1.045	1.120	3.55
34) S Toluene-d8	0.825	0.825	0.829	0.831	0.818	0.821	0.827	0.809	0.823	0.83
35) M Toluene	2.620	2.189	2.052	2.161	2.031	1.922	2.005	1.791	2.097	11.75
36) I Chlorobenzene-d5	-----ISTD-----									
37) t-1,3-Dichloro...	0.361	0.468	0.553	0.630	0.636	0.706	0.896		0.607	28.36
38) 1,1,2-Trichlor...	0.666	0.694	0.699	0.725	0.708	0.679	0.728	0.682	0.698	3.17
39) 1,3-Dichloropr...	0.805	0.811	0.796	0.924	0.886	0.875	0.922	0.898	0.864	6.12

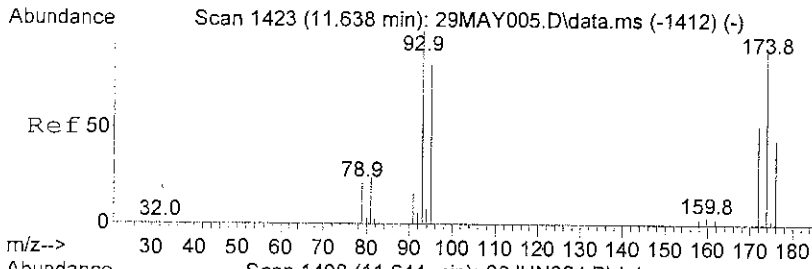
Method Path : C:\msdchem\1\methods\
G051094
1094

Method File : TO150608.M

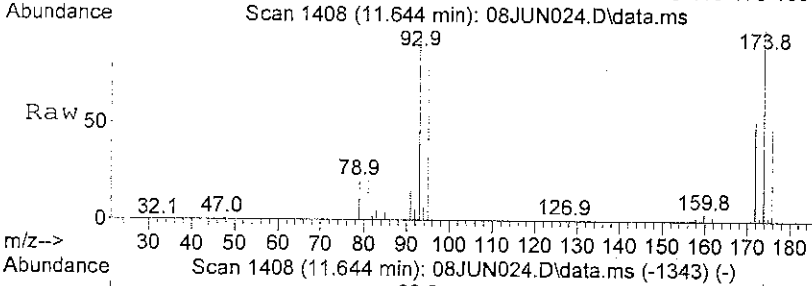
Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

10)	Tetrachloroethene	1.087	1.027	1.029	1.080	1.036	1.007	1.022	0.922	1.026	4.94
11)	2-Hexanone	0.596	0.670	0.680	0.691	0.674	0.676	0.778	0.749	0.689	7.93
12)	Dibromochlorom...	0.642	0.726	0.819	1.006	1.037	1.094	1.294	1.184	0.975	23.31
13) t	1,2-Dibromoethane	0.858	0.897	0.975	1.021	1.004	1.005	1.135	1.065	0.995	8.84
14)	Chlorobenzene	1.788	1.757	1.716	1.733	1.679	1.604	1.716	1.547	1.692	4.74
15)	1,1,1,2-Tetrac...	0.524	0.608	0.630	0.738	0.739	0.742	0.788	0.723	0.687	13.03
16) T	Ethylbenzene	2.970	2.929	2.848	2.931	2.837	2.707	2.906	2.741	2.858	3.30
17) T	p,&m-Xylene	2.407	2.301	2.241	2.272	2.183	2.066	2.132	1.863	2.183	7.62
18) T	o-Xylene	2.368	2.318	2.297	2.205	2.142	2.059	2.187	2.003	2.197	5.81
19)	Styrene	1.594	1.563	1.584	1.506	1.472	1.463	1.620	1.483	1.536	4.03
20)	Bromoform	0.344	0.390	0.413	0.784	0.818	0.903	1.283	1.173	0.764	46.88
21)	Isopropyl benzene	2.717	2.589	2.496	2.735	2.652	2.512	2.520	2.361	2.573	4.90
22) M	1,1,2,2-Tetrac...	1.597	1.617	1.629	1.215	1.158	1.141	1.466	1.417	1.405	14.80
23) S	4-Bromofluorob...	0.644	0.652	0.657	0.667	0.653	0.684	0.696	0.738	0.674	4.66
24)	Benzyl Chloride	0.735	0.935	1.120	0.761	0.822	1.064			0.906	17.70
25)	1,2,3-Trichlor...	0.443	0.429	0.421	0.484	0.466	0.456	0.483	0.448	0.454	5.08
26)	n-Propyl Benzene	2.794	2.773	2.664	3.091	2.981	2.853	2.811	2.510	2.809	6.35
27)	Bromobenzene	1.284	1.249	1.248	1.446	1.392	1.334	1.361	1.207	1.315	6.23
28)	4-Ethyl Toluene	3.285	3.178	3.141	2.753	2.672	2.538	2.814	2.692	2.884	9.60
29) T	1,3,5-Trimethy...	3.147	3.125	2.898	2.557	2.526	2.379	2.279	2.105	2.627	14.83
30)	2-Chlorotoluene	2.218	2.124	2.133	2.292	2.223	2.101	2.184	1.783	2.132	7.25
31)	4-Chlorotoluene	1.859	1.786	1.668	1.966	1.958	1.891	1.927	1.935	1.874	5.44
32)	tert-Butylbenzene	2.340	2.309	2.277	2.482	2.422	2.307	2.363	2.147	2.331	4.29
33)	1,2,4-Trimethy...	3.105	3.117	3.039	2.432	2.353	2.267	2.493	2.284	2.636	14.45
34)	sec-Butylbenzene	2.961	2.836	2.769	3.152	3.061	2.895	2.890	2.658	2.903	5.41
35)	p-Isopropyltol...	2.357	2.250	2.180	2.420	2.333	2.222	2.330	2.158	2.281	4.06
36)	1,3-Dichlorobe...	2.126	2.019	2.008	1.511	1.435	1.392	1.595	1.439	1.691	18.11
37)	1,4-Dichlorobe...	2.022	2.025	1.969	1.451	1.397	1.357	1.585	1.423	1.654	18.08
38)	n-Butylbenzene	1.863	1.812	1.767	2.062	1.970	1.904	2.079	1.989	1.931	5.89
39)	1,2-Dichlorobe...	2.088	1.985	1.963	1.402	1.354	1.293	1.523	1.388	1.625	20.25
40)	1,2-Dibromo-3-...	0.184	0.221	0.247	0.367	0.363	0.391			0.295	29.92
41)	1,2,4-Trichlor...	1.024	0.989	0.984	1.057	0.998	0.967	1.326	1.256	1.075	12.77
42)	Hexachlorobuta...	1.275	1.269	1.295	1.181	1.137	1.074	1.186	1.076	1.187	7.39

#) = Out of Range

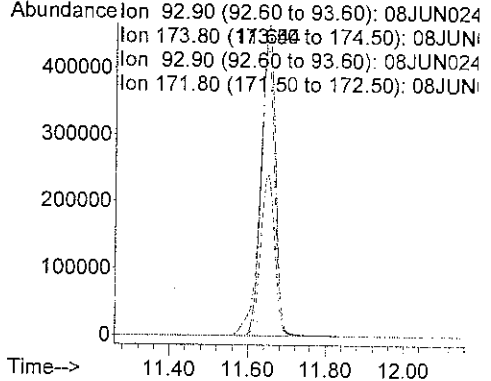
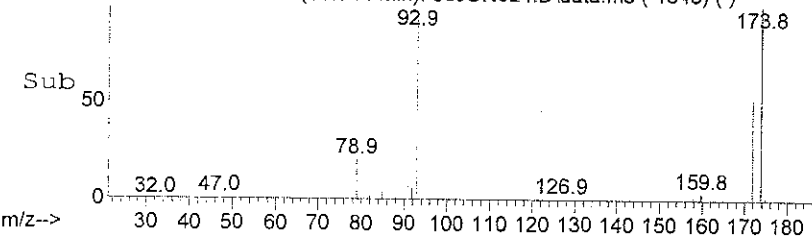


#31
 Dibromomethane
 Concen: 103.04 ppbv m
 RT: 11.644 min Scan# 1408
 Delta R.T. 0.006 min
 Lab File: 08JUN024.D
 Acq: 9 Jun 2015 5:04



Tgt Ion: 93 Resp: 1102713

Ion	Ratio	Lower	Upper
93	100		
174	105.4	65.3	105.3#
93	100.0	80.0	120.0
172	55.2	20.9	60.9



*MI - 3
 J 6/9/15*

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\150608\
 Data File : 08JUN027.D
 Acq On : 9 Jun 2015 7:13
 Operator : DT
 Sample : ICV
 Misc : 50ML
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 09 09:48:04 2015
 Quant Method : C:\msdchem\1\methods\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:17:28 2015
 Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	101	0.00
2	Dichlorodifluoromethane (12)	6.155	6.769	-10.0	101	-0.01
3	Chloromethane	1.918	2.102	-9.6	106	-0.02
4	1,2-Cl-1,1,2,2-F ethane (11)	5.598	6.282	-12.2	103	-0.01
5	Vinyl Chloride	1.906	2.105	-10.4	102	-0.01
6	Bromomethane	0.849	0.972	-14.5	106	-0.01
7	Chloroethane	0.290	0.357	-23.1	99	-0.01
8	Trichlorofluoromethane (11)	6.055	6.652	-9.9	102	-0.01
9 M	1,1-Dichloroethene	3.801	4.032	-6.1	98	0.00
10	Carbon Disulfide	5.421	6.031	-11.3	103	0.00
11	1,1,2-Cl 1,2,2-F ethane (11)	4.288	4.422	-3.1	95	0.00
12	Acetone	4.304	4.040	6.1	105	0.00
13 M	Methylene Chloride	1.881	2.013	-7.0	99	0.00
14	t-1,2-Dichloroethene	2.112	2.402	-13.7	102	-0.01
15	1,1-Dichloroethane	4.266	4.733	-10.9	101	0.00
16	Vinyl Acetate	6.252	6.178	1.2	92	0.00
17	c-1,2-Dichloroethene	2.350	2.643	-12.5	103	0.00
18	2-Butanone	1.073	1.116	-4.0	97	0.00
19	t-Butyl Methyl Ether	5.806	6.359	-9.5	103	0.00
20 t	Chloroform	4.885	5.272	-7.9	100	0.00
21	1,1,1-Trichloroethane	4.697	5.251	-11.8	104	0.00
22	1,1-Dichloropropene	2.988	3.290	-10.1	101	0.00
23 t	Carbon Tetrachloride	4.345	4.723	-8.7	102	0.00
24 I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
25 T	Benzene	1.775	1.806	-1.7	101	0.00
26 S	1,2-Dichloroethane-d4	0.374	0.350	6.4	101	0.00
27	1,2-Dichloroethane	0.742	0.795	-7.1	100	0.00
28 M	Trichloroethene	0.756	0.819	-8.3	99	0.00
29	1,2-Dichloropropane	0.591	0.636	-7.6	103	0.00
30	Bromodichloromethane	0.978	1.105	-13.0	104	0.00
31	Dibromomethane	0.542	0.596	-10.0	101	0.00
32	c-1,3-Dichloropropene	0.715	0.754	-5.5	101	0.00
33	4-Methyl-2-Pentanone	1.120	1.113	0.6	98	0.00
34 S	Toluene-d8	0.823	0.828	-0.6	100	0.00
35 M	Toluene	2.097	2.169	-3.4	105	0.00
36 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
37	t-1,3-Dichloropropene	0.607	0.682	-12.4	108	0.00
38	1,1,2-Trichloroethane	0.698	0.731	-4.7	104	0.00
39	1,3-Dichloropropane	0.864	0.900	-4.2	102	0.00
40	Tetrachloroethene	1.026	1.068	-4.1	103	0.00
41	2-Hexanone	0.689	0.655	4.9	97	0.00
42	Dibromochloromethane	0.975	1.066	-9.3	103	0.00
43 t	1,2-Dibromoethane	0.995	1.023	-2.8	102	0.00
44	Chlorobenzene	1.692	1.700	-0.5	102	0.00
45	1,1,1,2-Tetrachloroethane	0.687	0.738	-7.4	100	0.00
46 T	Ethylbenzene	2.858	2.807	1.8	99	0.00
47 T	p, &m-Xylene	2.183	2.196	-0.6	101	0.00
48 T	o-Xylene	2.197	2.196	0.0	103	0.00
49	Styrene	1.536	1.470	4.3	100	0.00
50	Bromoform	0.764	0.903	-18.2	111	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\150608\
 Data File : 08JUN027.D
 Acq On : 9 Jun 2015 7:13
 Operator : DT
 Sample : ICV
 Misc : 50ML
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 09 09:48:04 2015
 Quant Method : C:\msdchem\1\methods\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:17:28 2015
 Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	Isopropyl benzene	2.573	2.650	-3.0	100	0.00
52 M	1,1,2,2-Tetrachloroethane	1.405	1.202	14.4	104	0.00
53 S	4-Bromofluorobenzene	0.674	0.657	2.5	101	0.00
54	Benzyl Chloride	0.906	0.643	29.0	79	0.00
55	1,2,3-Trichloropropane	0.454	0.493	-8.6	106	0.00
56	n-Propyl Benzene	2.809	3.052	-8.7	103	0.00
57	Bromobenzene	1.315	1.436	-9.2	104	0.00
58	4-Ethyl Toluene	2.884	2.599	9.9	98	0.00
59 T	1,3,5-Trimethylbenzene	2.627	2.409	8.3	96	0.00
60	2-Chlorotoluene	2.132	2.252	-5.6	102	0.00
61	4-Chlorotoluene	1.874	2.039	-8.8	105	0.00
62	tert-Butylbenzene	2.331	2.474	-6.1	103	0.00
63	1,2,4-Trimethylbenzene	2.636	2.255	14.5	96	0.00
64	sec-Butylbenzene	2.903	3.202	-10.3	105	0.00
65	p-Isopropyltoluene	2.281	2.460	-7.8	106	0.00
66	1,3-Dichlorobenzene	1.691	1.435	15.1	100	0.00
67	1,4-Dichlorobenzene	1.654	1.394	15.7	100	0.00
68	n-Butylbenzene	1.931	2.160	-11.9	110	0.00
69	1,2-Dichlorobenzene	1.625	1.280	21.2	95	0.00
70	1,2-Dibromo-3-chloropropane	0.295	0.443	-50.2#	123	0.00
71	1,2,4-Trichlorobenzene	1.075	0.817	24.0	82	0.00
72	Hexachlorobutadiene	1.187	0.864	27.2	76	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : C:\MSDCHEM\1\DATA\150608\
 Data File : 08JUN027.D
 Acq On : 9 Jun 2015 7:13
 Operator : DT
 Sample : ICV
 Misc : 50ML
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 09 07:37:57 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150603.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Fri Jun 05 14:06:03 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.205	130	41201	10.00	ppbv	0.00
24) 1,4-Difluorobenzene	10.562	114	189932	10.00	ppbv	0.00
36) Chlorobenzene-d5	15.080	117	180138	10.00	ppbv	0.00
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	9.970	65	66530	8.20	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	82.00%	
34) Toluene-d8	12.802	98	157308	11.17	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	111.70%	
53) 4-Bromofluorobenzene	17.047	174	118415	12.32	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	123.20%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethan...	3.447	85	278886	11.26	ppbv	97
3) Chloromethane	3.827	50	86616	12.01	ppbv	97
4) 1,2-Cl-1,1,2,2-F ethan...	3.690	85	258829	11.92	ppbv	81
5) Vinyl Chloride	4.051	62	86997	12.42	ppbv	99
6) Bromomethane	4.736	94	40061	11.72	ppbv	93
7) Chloroethane	4.885	66	14713	13.20	ppbv	89
8) Trichlorofluoromethane...	5.352	101	274094	10.71	ppbv	99
9) 1,1-Dichloroethene	6.254	61	166130	11.57	ppbv	94
10) Carbon Disulfide	6.933	76	248475	12.14	ppbv	99
11) 1,1,2-Cl 1,2,2-F ethan...	6.092	151	182159	11.21	ppbv	76
12) Acetone	5.993	43	166972	11.06	ppbv	93
13) Methylene Chloride	6.889	84	82926	11.89	ppbv	95
14) t-1,2-Dichloroethene	7.381	96	98977	12.77	ppbv	96
15) 1,1-Dichloroethane	7.941	63	195003	12.09	ppbv	95
16) Vinyl Acetate	7.935	43	250648	10.66	ppbv	98
17) c-1,2-Dichloroethene	8.781	96	108874	12.73	ppbv	99
18) 2-Butanone	8.489	72	45798	12.64	ppbv	91
19) t-Butyl Methyl Ether	7.250	73	261977	13.50	ppbv	94
20) Chloroform	9.018	83	217236	11.25	ppbv	98
21) 1,1,1-Trichloroethane	9.628	97	216331	11.19	ppbv	98
22) 1,1-Dichloropropene	9.858	75	135564	12.55	ppbv	93
23) Carbon Tetrachloride	10.014	117	194604	9.57	ppbv	97
25) Benzene	10.194	78	343050	11.21	ppbv	97
27) 1,2-Dichloroethane	10.095	62	151532	10.31	ppbv	97
28) Trichloroethene	11.084	130	155536	11.47	ppbv	82
29) 1,2-Dichloropropane	11.284	63	120774	11.69	ppbv	88
30) Bromodichloromethane	11.589	83	209892	9.91	ppbv	99
31) Dibromomethane	11.638	93	113117	10.80	ppbv #	85
32) c-1,3-Dichloropropene	12.373	75	143186	11.02	ppbv	94
33) 4-Methyl-2-Pentanone	12.093	43	211430	10.67	ppbv	96
35) Toluene	12.921	91	411657	11.82	ppbv	96
37) t-1,3-Dichloropropene	13.082	75	122930	9.54	ppbv	94
38) 1,1,2-Trichloroethane	13.331	97	131604	9.62	ppbv	87
39) 1,3-Dichloropropane	13.699	76	162106	9.98	ppbv	99
40) Tetrachloroethene	13.948	166	192376	10.17	ppbv	99
41) 2-Hexanone	13.369	58	117923	9.75	ppbv	88
42) Dibromochloromethane	14.116	129	191939	8.12	ppbv	96
43) 1,2-Dibromoethane	14.439	107	184370	9.37	ppbv	97
44) Chlorobenzene	15.136	112	306294	9.43	ppbv	90
45) 1,1,1,2-Tetrachloroethane	15.192	131	133027	9.12	ppbv	95
46) Ethylbenzene	15.242	91	505923	9.56	ppbv	97
47) p, &m-Xylene	15.373	91	791029	19.31	ppbv	99

Data Path : C:\MSDCHEM\1\DATA\150608\
 Data File : 08JUN027.D
 Acq On : 9 Jun 2015 7:13
 Operator : DT
 Sample : ICV
 Misc : 50ML
 ALS Vial : 8 Sample Multiplier: 1

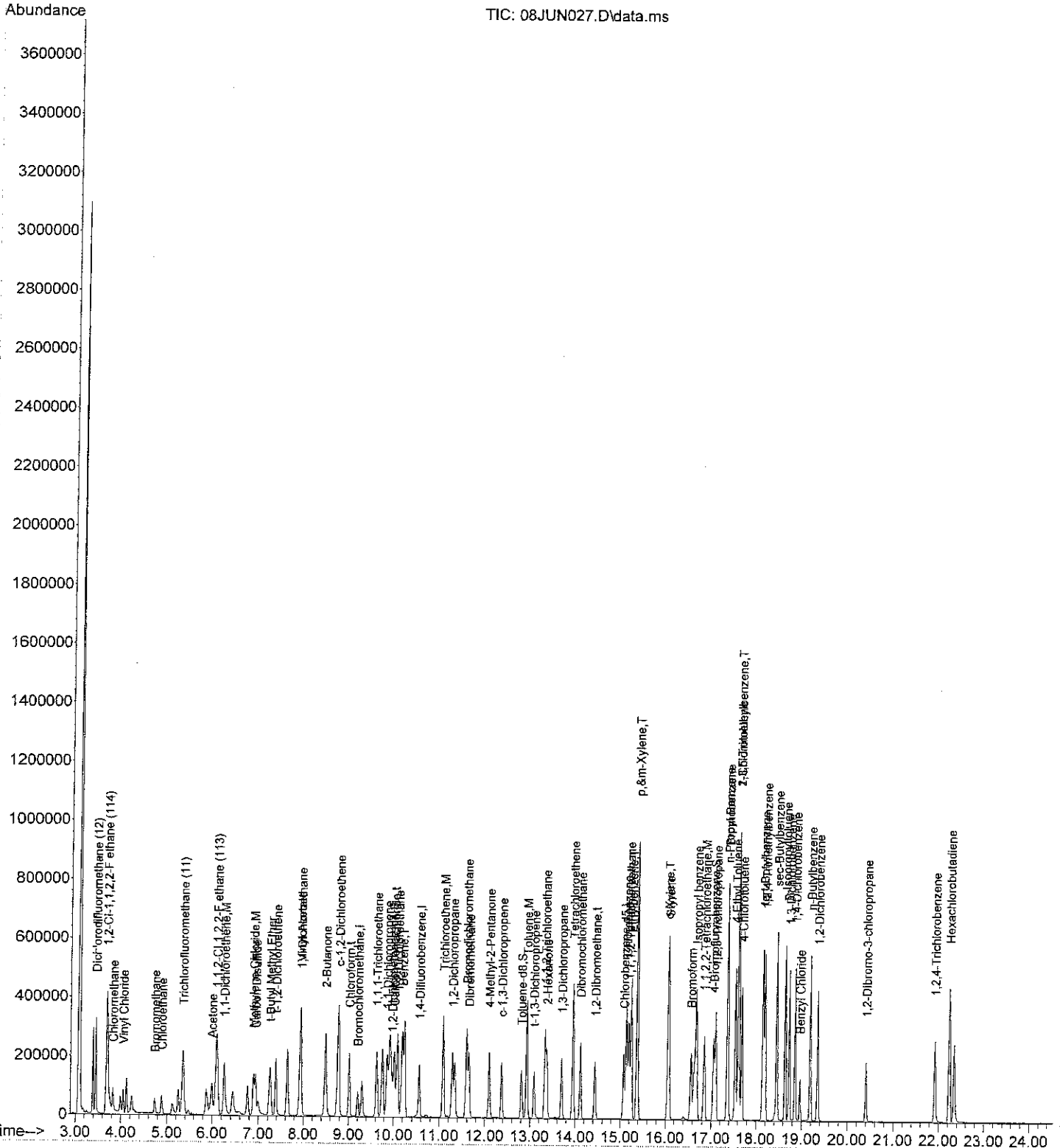
Quant Time: Jun 09 07:37:57 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150603.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Fri Jun 05 14:06:03 2015
 Response via : Initial Calibration

Compound	R.T.	QI on	Response	Conc	Units	Dev(Min)
48) o-Xylene	16.051	91	395532	9.96	ppbv	99
49) Styrene	16.076	104	264871	9.28	ppbv	93
50) Bromoform	16.562	173	162682	8.03	ppbv	94
51) Isopropyl benzene	16.674	105	477350	10.21	ppbv	93
52) 1,1,2,2-Tetrachloroethane	16.848	83	216476	7.65	ppbv	94
54) Benzyl Chloride	18.964	91	115865	6.34	ppbv	93
55) 1,2,3-Trichloropropane	17.097	110	88746	9.77	ppbv #	90
56) n-Propyl Benzene	17.359	91	549823	10.61	ppbv	100
57) Bromobenzene	17.371	77	258695	10.07	ppbv	73
58) 4-Ethyl Toluene	17.539	105	468148	8.86	ppbv	96
59) 1,3,5-Trimethylbenzene	17.614	105	433986	8.61	ppbv	92
60) 2-Chlorotoluene	17.614	91	405652	9.71	ppbv	86
61) 4-Chlorotoluene	17.688	91	367240	10.28	ppbv	86
62) tert-Butylbenzene	18.149	119	445684	10.35	ppbv	87
63) 1,2,4-Trimethylbenzene	18.193	105	406272	8.09	ppbv	91
64) sec-Butylbenzene	18.454	105	576821	10.83	ppbv	95
65) p-Isopropyltoluene	18.635	119	443102	10.91	ppbv	89
66) 1,3-Dichlorobenzene	18.728	146	258559	7.90	ppbv	86
67) 1,4-Dichlorobenzene	18.852	146	251031	7.95	ppbv	92
68) n-Butylbenzene	19.182	91	389029	10.83	ppbv	98
69) 1,2-Dichlorobenzene	19.350	146	230588	7.42	ppbv	90
70) 1,2-Dibromo-3-chloropr...	20.408	157	79817	10.54	ppbv #	67
71) 1,2,4-Trichlorobenzene	21.915	180	147154	7.53	ppbv	88
72) Hexachlorobutadiene	22.232	225	155557	6.92	ppbv	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\150608\
Data File : 08JUN027.D
Acq On : 9 Jun 2015 7:13
Operator : DT
Sample : ICV
Misc : 50ML
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 09 07:37:57 2015
Quant Method : C:\MSDCHEM\1\METHODS\TO150603.M
Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
QLast Update : Fri Jun 05 14:06:03 2015
Response via : Initial Calibration



4. Continuing Calibration

- a. CCAL Summary
- b. Results/Chromatograms

Default Continuing Calibration Criteria:

90% of target compounds must have %Diff <30%
All target compounds must have %Diff <50%

(This criteria superceded by any project specific criteria)

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN005.D
 Acq On : 10 Jun 2015 17:16
 Operator : DT
 Sample : CCV
 Misc : 50ML
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 17:41:04 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
1 I	Bromochloromethane	1.000	1.000	0.0	114	0.00
2	Dichlorodifluoromethane (12	6.155	5.333	13.4	90	-0.01
3	Chloromethane	1.918	1.557	18.8	89	-0.01
4	1,2-Cl-1,1,2,2-F ethane (11	5.598	4.829	13.7	90	-0.02
5	Vinyl Chloride	1.906	1.634	14.3	90	-0.01
6	Bromomethane	0.849	0.732	13.8	90	-0.02
7	Chloroethane	0.290	0.295	-1.7	92	-0.01
8	Trichlorofluoromethane (11)	6.055	5.304	12.4	92	-0.01
9 M	1,1-Dichloroethene	3.801	3.258	14.3	89	0.00
10	Carbon Disulfide	5.421	4.630	14.6	89	-0.01
11	1,1,2-Cl 1,2,2-F ethane (11	4.288	3.750	12.5	91	0.00
12	Acetone	4.304	3.493	18.8	103	0.00
13 M	Methylene Chloride	1.881	1.547	17.8	86	0.00
14	t-1,2-Dichloroethene	2.112	1.836	13.1	88	-0.01
15	1,1-Dichloroethane	4.266	3.665	14.1	89	0.00
16	Vinyl Acetate	6.252	5.405	13.5	91	-0.01
17	c-1,2-Dichloroethene	2.350	2.022	14.0	89	0.00
18	2-Butanone	1.073	0.842	21.5	83	-0.01
19	t-Butyl Methyl Ether	5.806	5.072	12.6	93	-0.01
20 t	Chloroform	4.885	4.150	15.0	89	0.00
21	1,1,1-Trichloroethane	4.697	4.107	12.6	92	0.00
22	1,1-Dichloropropene	2.988	2.571	14.0	90	0.00
23 t	Carbon Tetrachloride	4.345	3.925	9.7	96	0.00
24 I	1,4-Difluorobenzene	1.000	1.000	0.0	109	0.00
25 T	Benzene	1.775	1.564	11.9	97	0.00
26 S	1,2-Dichloroethane-d4	0.374	0.327	12.6	104	0.00
27	1,2-Dichloroethane	0.742	0.630	15.1	88	0.00
28 M	Trichloroethene	0.756	0.657	13.1	88	0.00
29	1,2-Dichloropropane	0.591	0.482	18.4	86	0.00
30	Bromodichloromethane	0.978	0.880	10.0	91	0.00
31	Dibromomethane	0.542	0.482	11.1	91	0.00
32	c-1,3-Dichloropropene	0.715	0.611	14.5	91	0.00
33	4-Methyl-2-Pentanone	1.120	0.909	18.8	89	0.00
34 S	Toluene-d8	0.823	0.872	-6.0	116	0.00
35 M	Toluene	2.097	1.706	18.6	92	0.00
36 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
37	t-1,3-Dichloropropene	0.607	0.636	-4.8	91	0.00
38	1,1,2-Trichloroethane	0.698	0.676	3.2	87	0.00
39	1,3-Dichloropropane	0.864	0.871	-0.8	90	0.00
40	Tetrachloroethene	1.026	1.021	0.5	90	0.00
41	2-Hexanone	0.689	0.647	6.1	88	0.00
42	Dibromochloromethane	0.975	1.027	-5.3	90	0.00
43 t	1,2-Dibromoethane	0.995	0.958	3.7	87	0.00
44	Chlorobenzene	1.692	1.642	3.0	89	0.00
45	1,1,1,2-Tetrachloroethane	0.687	0.722	-5.1	89	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN005.D
 Acq On : 10 Jun 2015 17:16
 Operator : DT
 Sample : CCV
 Misc : 50ML
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 17:41:04 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
46 T	Ethylbenzene	2.858	2.730	4.5	88	0.00
47 T	p,&m-Xylene	2.183	2.142	1.9	90	0.00
48 T	o-Xylene	2.197	2.104	4.2	90	0.00
49	Styrene	1.536	1.427	7.1	89	0.00
50	Bromoform	0.764	0.824	-7.9	92	0.00
51	Isopropyl benzene	2.573	2.589	-0.6	89	0.00
52 M	1,1,2,2-Tetrachloroethane	1.405	1.141	18.8	90	0.00
53 S	4-Bromofluorobenzene	0.674	0.476	29.4	67	0.00
54	Benzyl Chloride	0.906	0.869	4.1	97	0.00
55	1,2,3-Trichloropropane	0.454	0.455	-0.2	89	0.00
56	n-Propyl Benzene	2.809	2.913	-3.7	89	0.00
57	Bromobenzene	1.315	1.368	-4.0	90	0.00
58	4-Ethyl Toluene	2.884	2.595	10.0	89	0.00
59 T	1,3,5-Trimethylbenzene	2.627	2.475	5.8	89	0.00
60	2-Chlorotoluene	2.132	2.190	-2.7	90	0.00
61	4-Chlorotoluene	1.874	1.910	-1.9	89	0.00
62	tert-Butylbenzene	2.331	2.358	-1.2	89	0.00
63	1,2,4-Trimethylbenzene	2.636	2.339	11.3	91	0.00
64	sec-Butylbenzene	2.903	3.012	-3.8	90	0.00
65	p-Isopropyltoluene	2.281	2.284	-0.1	89	0.00
66	1,3-Dichlorobenzene	1.691	1.433	15.3	91	0.00
67	1,4-Dichlorobenzene	1.654	1.390	16.0	91	0.00
68	n-Butylbenzene	1.931	1.962	-1.6	91	0.00
69	1,2-Dichlorobenzene	1.625	1.328	18.3	90	0.00
70	1,2-Dibromo-3-chloropropane	0.295	0.357	-21.0	90	0.00
71	1,2,4-Trichlorobenzene	1.075	0.980	8.8	90	0.00
72	Hexachlorobutadiene	1.187	1.123	5.4	90	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : C:\MSDCHEM\1\DATA\150608\
 Data File : 10JUN005.D
 Acq On : 10 Jun 2015 17:16
 Operator : DT
 Sample : CCV
 Misc : 50ML
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 17:41:04 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.205	130	46583	10.00	ppbv	0.00
24) 1,4-Difluorobenzene	10.555	114	210230	10.00	ppbv	0.00
36) Chlorobenzene-d5	15.080	117	163836	10.00	ppbv	0.00
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	9.964	65	68727	8.73	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	87.30%		
34) Toluene-d8	12.802	98	183375	10.60	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	106.00%		
53) 4-Bromofluorobenzene	17.047	174	77995	7.06	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	70.60%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane...	3.447	85	248433	8.66	ppbv	98
3) Chloromethane	3.833	50	72535	8.12	ppbv	99
4) 1,2-Cl-1,1,2,2-F ethan...	3.684	85	224955	8.63	ppbv	82
5) Vinyl Chloride	4.051	62	76097	8.57	ppbv	94
6) Bromomethane	4.729	94	34099	8.62	ppbv	93
7) Chloroethane	4.885	66	13747	10.17	ppbv	93
8) Trichlorofluoromethane...	5.352	101	247059	8.76	ppbv	97
9) 1,1-Dichloroethene	6.254	61	151767	8.57	ppbv	94
10) Carbon Disulfide	6.926	76	215669	8.54	ppbv	98
11) 1,1,2-Cl 1,2,2-F ethan...	6.092	151	174703	8.75	ppbv	76
12) Acetone	5.993	43	162728	8.12	ppbv	89
13) Methylene Chloride	6.889	84	72052	8.22	ppbv	99
14) t-1,2-Dichloroethene	7.381	96	85542	8.70	ppbv	93
15) 1,1-Dichloroethane	7.941	63	170713	8.59	ppbv	97
16) Vinyl Acetate	7.929	43	251790	8.65	ppbv	97
17) c-1,2-Dichloroethene	8.781	96	94181	8.61	ppbv	97
18) 2-Butanone	8.482	72	39231	7.85	ppbv	81
19) t-Butyl Methyl Ether	7.244	73	236289	8.74	ppbv	94
20) Chloroform	9.012	83	193342	8.50	ppbv	97
21) 1,1,1-Trichloroethane	9.622	97	191320	8.74	ppbv	98
22) 1,1-Dichloropropene	9.852	75	119763	8.61	ppbv	91
23) Carbon Tetrachloride	10.014	117	182835	9.03	ppbv	95
25) Benzene	10.188	78	328731	8.81	ppbv	98
27) 1,2-Dichloroethane	10.095	62	132391	8.49	ppbv	97
28) Trichloroethene	11.078	130	138178	8.69	ppbv	83
29) 1,2-Dichloropropane	11.277	63	101228	8.14	ppbv	86
30) Bromodichloromethane	11.588	83	184954	9.00	ppbv	98
31) Dibromomethane	11.632	93	101260	8.89	ppbv	90
32) c-1,3-Dichloropropene	12.367	75	128548	8.56	ppbv	94
33) 4-Methyl-2-Pentanone	12.093	43	191185	8.12	ppbv	98
35) Toluene	12.920	91	358656	8.14	ppbv	98
37) t-1,3-Dichloropropene	13.082	75	104213	10.48	ppbv	92
38) 1,1,2-Trichloroethane	13.325	97	110815	9.69	ppbv	93
39) 1,3-Dichloropropane	13.699	76	142764	10.08	ppbv	100
40) Tetrachloroethene	13.948	166	167263	9.95	ppbv	97
41) 2-Hexanone	13.369	58	106029	9.39	ppbv	90
42) Dibromochloromethane	14.116	129	168215	10.53	ppbv	95
43) 1,2-Dibromoethane	14.433	107	156877	9.62	ppbv	97
44) Chlorobenzene	15.136	112	269008	9.70	ppbv	90
45) 1,1,1,2-Tetrachloroethane	15.186	131	118370	10.52	ppbv	95
46) Ethylbenzene	15.242	91	447351	9.55	ppbv	97
47) p, &m-Xylene	15.373	91	701766	19.62	ppbv	99

Data Path : C:\MSDCHEM\1\DATA\150608\
 Data File : 10JUN005.D
 Acq On : 10 Jun 2015 17:16
 Operator : DT
 Sample : CCV
 Misc : 50ML
 ALS Vial : 2 Sample Multiplier: 1

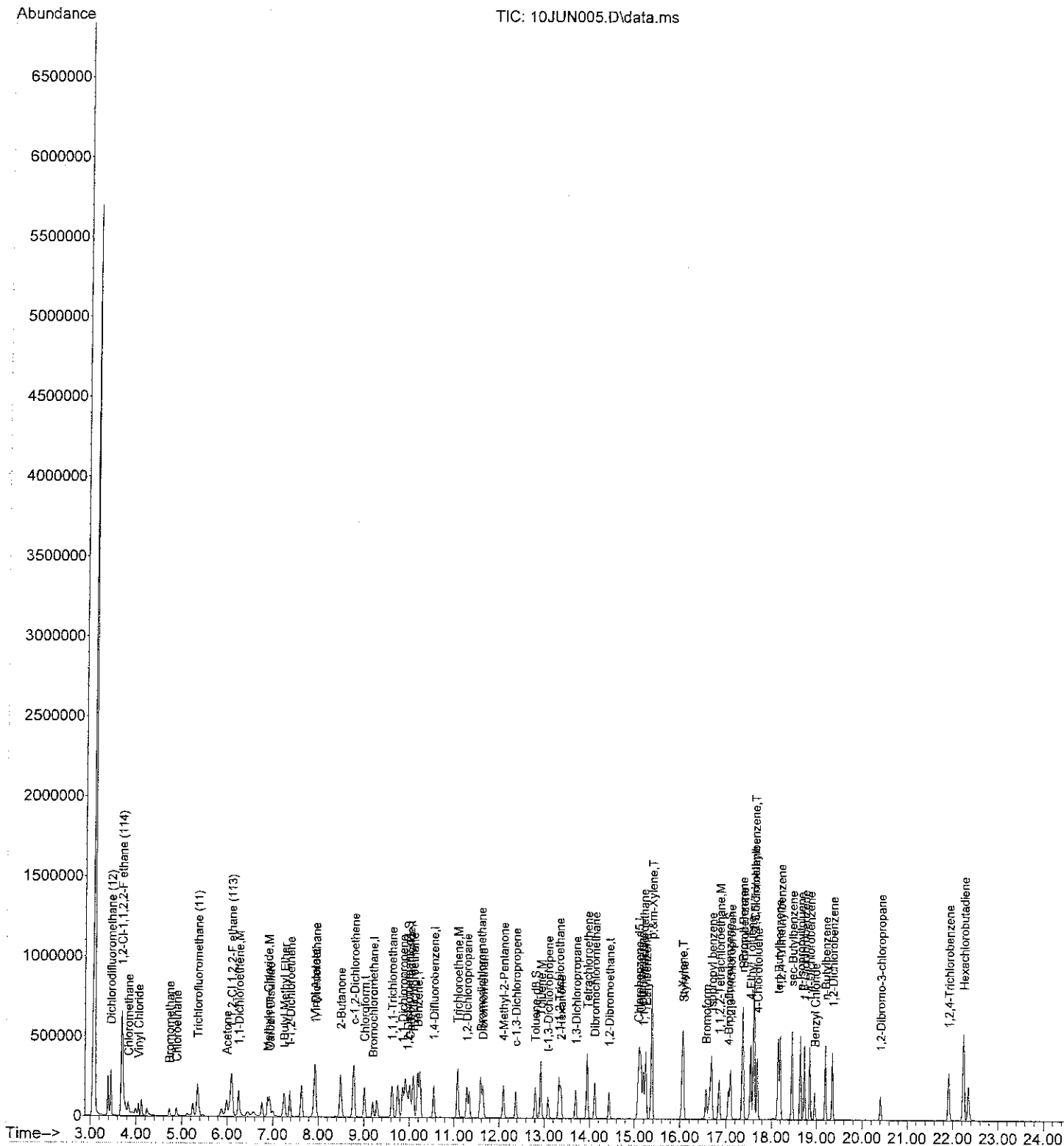
Quant Time: Jun 10 17:41:04 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
48) o-Xylene	16.051	91	344634	9.57	ppbv	99
49) Styrene	16.076	104	233769	9.29	ppbv	92
50) Bromoform	16.562	173	134935	10.79	ppbv	94
51) Isopropyl benzene	16.674	105	424134	10.06	ppbv	94
52) 1,1,2,2-Tetrachloroethane	16.848	83	186872	8.12	ppbv	92
54) Benzyl Chloride	18.964	91	142392	9.59	ppbv	93
55) 1,2,3-Trichloropropane	17.097	110	74593	10.03	ppbv #	84
56) n-Propyl Benzene	17.358	91	477310	10.37	ppbv	98
57) Bromobenzene	17.371	77	224169	10.40	ppbv #	69
58) 4-Ethyl Toluene	17.539	105	425193	9.00	ppbv	96
59) 1,3,5-Trimethylbenzene	17.614	105	405462	9.42	ppbv	94
60) 2-Chlorotoluene	17.614	91	358877	10.27	ppbv	87
61) 4-Chlorotoluene	17.688	91	312921	10.19	ppbv	86
62) tert-Butylbenzene	18.143	119	386307	10.12	ppbv	90
63) 1,2,4-Trimethylbenzene	18.193	105	383231	8.87	ppbv	93
64) sec-Butylbenzene	18.454	105	493420	10.38	ppbv	96
65) p-Isopropyltoluene	18.634	119	374271	10.01	ppbv	90
66) 1,3-Dichlorobenzene	18.728	146	234851	8.48	ppbv	87
67) 1,4-Dichlorobenzene	18.852	146	227758	8.41	ppbv	92
68) n-Butylbenzene	19.182	91	321400	10.16	ppbv	97
69) 1,2-Dichlorobenzene	19.350	146	217633	8.18	ppbv	90
70) 1,2-Dibromo-3-chloropr...	20.408	157	58547	12.10	ppbv #	68
71) 1,2,4-Trichlorobenzene	21.915	180	160524	9.11	ppbv	90
72) Hexachlorobutadiene	22.232	225	183916	9.46	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\150608\
 Data File : 10JUN005.D
 Acq On : 10 Jun 2015 17:16
 Operator : DT
 Sample : CCV
 Misc : 50ML
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 17:41:04 2015
 Quant Method : C:\MSDCHEM\1\METHODS\T0150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration



5. Tune Summaries

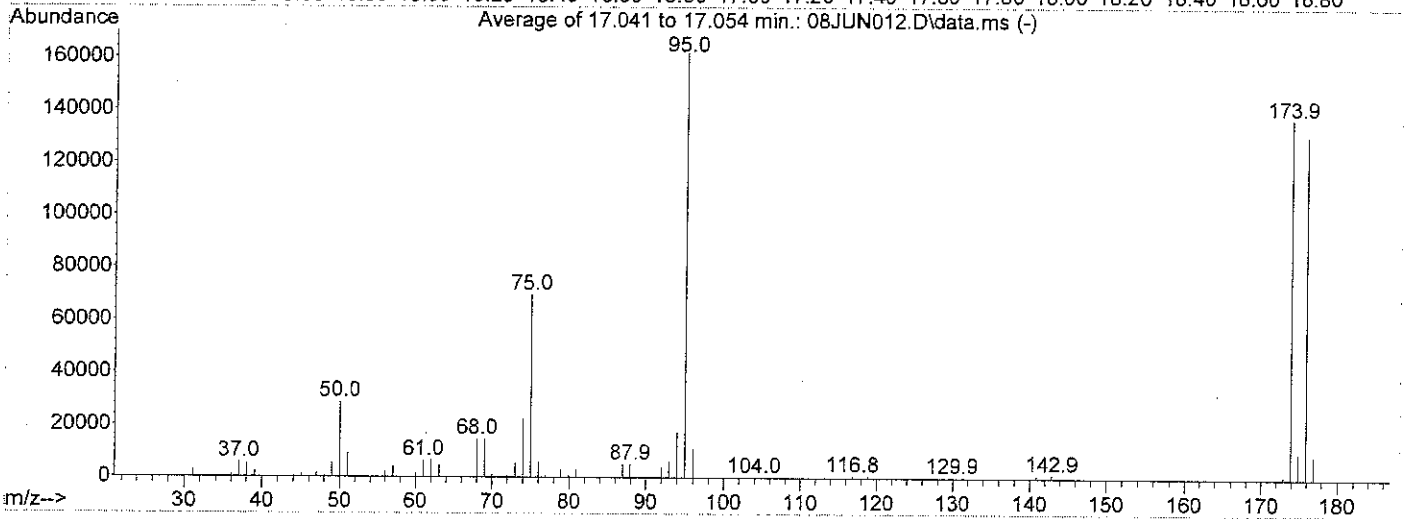
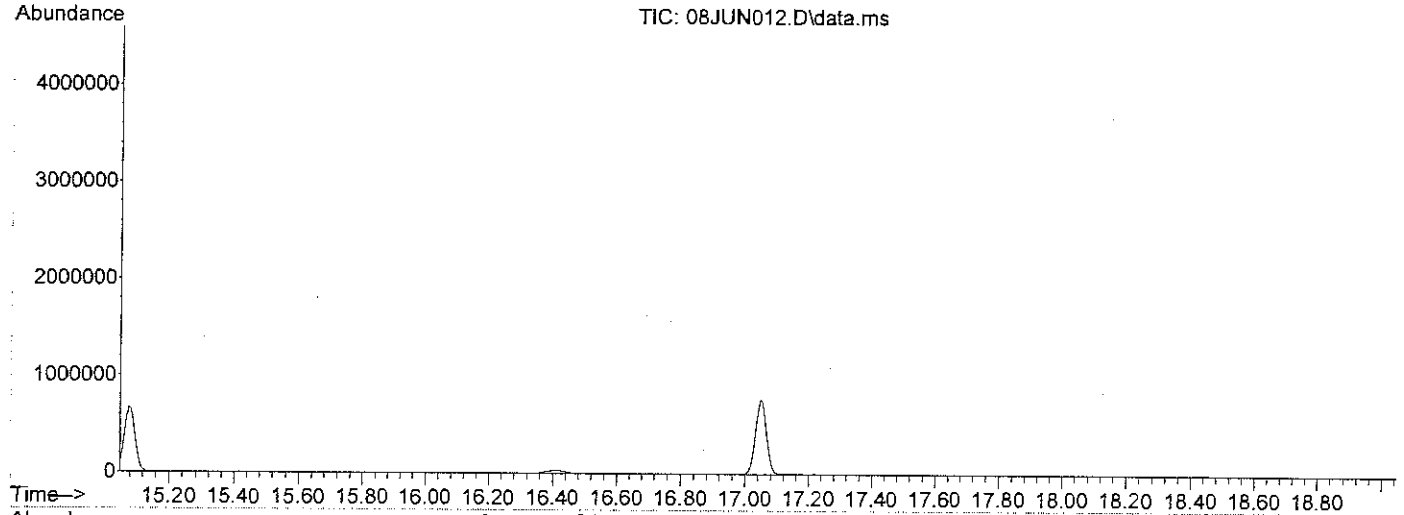
- a. ICAL Summary
- b. CCAL Tune Summary

Criteria as listed in report

Data Path : C:\msdchem\1\data\150608\
 Data File : 08JUN012.D
 Acq On : 8 Jun 2015 20:49
 Operator : DT
 Sample : BFB
 Misc : 150ML
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\TO150608.M
 Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 Last Update : Tue Jun 09 09:17:28 2015



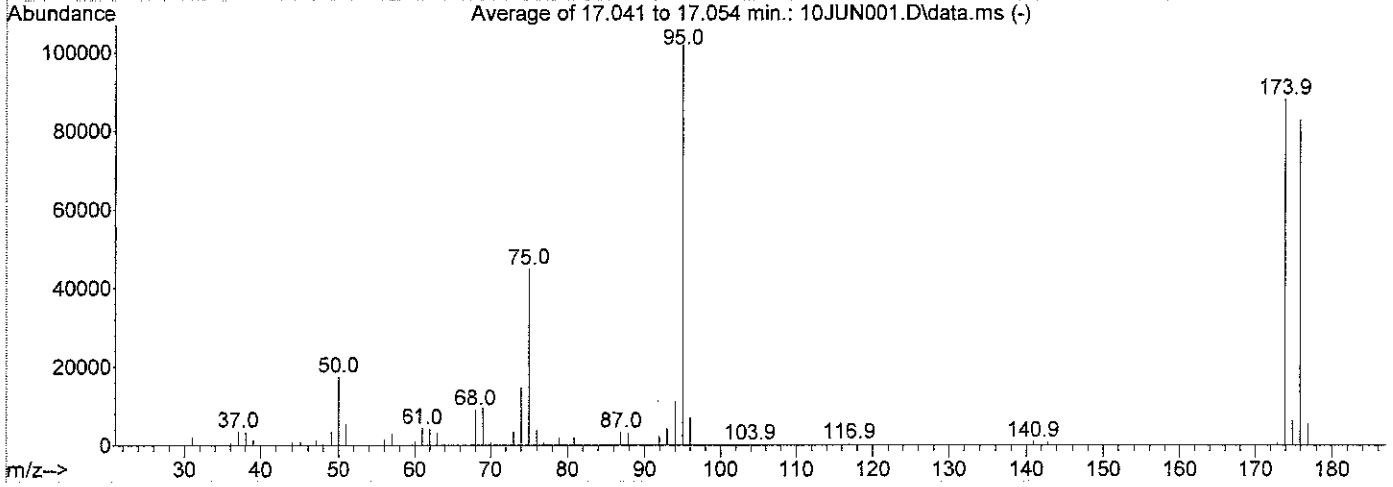
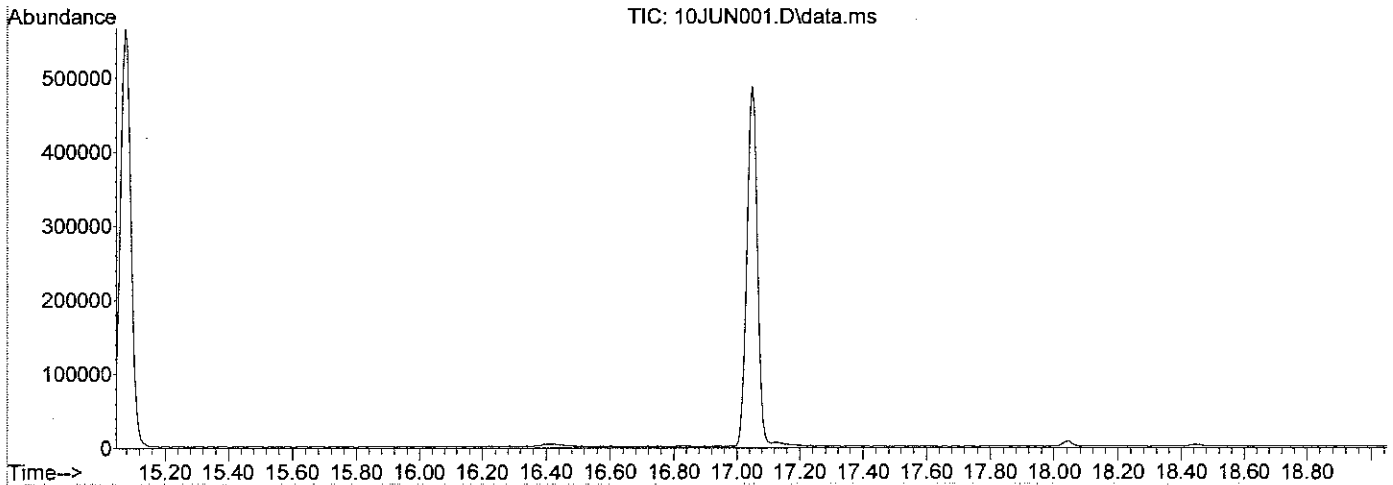
AutoFind: Scans 2275, 2276, 2277; Background Corrected with Scan 2265

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
50	95	15	40	17.7	28539	PASS
75	95	30	60	43.0	69507	PASS
95	95	100	100	100.0	161685	PASS
96	95	5	9	6.7	10798	PASS
173	174	0.00	2	0.8	1029	PASS
174	95	50	100	84.7	136925	PASS
175	174	5	9	7.1	9666	PASS
176	174	95	101	95.4	130603	PASS
177	176	5	9	6.6	8672	PASS

Data Path : C:\msdchem\1\data\150608\
 Data File : 10JUN001.D
 Acq On : 10 Jun 2015 12:57
 Operator : DT
 Sample : BFB
 Misc : 150ML
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\TO15 TUNE.M
 Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 Last Update : Wed May 08 07:45:43 2013



AutoFind: Scans 2275, 2276, 2277; Background Corrected with Scan 2266

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.1	17387	PASS
75	95	30	66	44.0	44824	PASS
95	95	100	100	100.0	101773	PASS
96	95	5	9	6.9	7034	PASS
173	174	0.00	2	0.6	566	PASS
174	95	50	120	86.5	88000	PASS
175	174	4	9	7.1	6228	PASS
176	174	93	101	93.9	82627	PASS
177	176	5	9	6.6	5435	PASS

6. Method Blank

a. Results/Chromatograms

Method Blank Criteria:

All compounds < Reporting Limit

Data Path : C:\MSDCHEM\1\DATA\150608\
 Data File : 10JUN008.D
 Acq On : 10 Jun 2015 19:19
 Operator : DT
 Sample : METHOD BLANK
 Misc : 250ML
 ALS Vial : 2 Sample Multiplier: 0.2

Quant Time: Jun 10 19:44:23 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

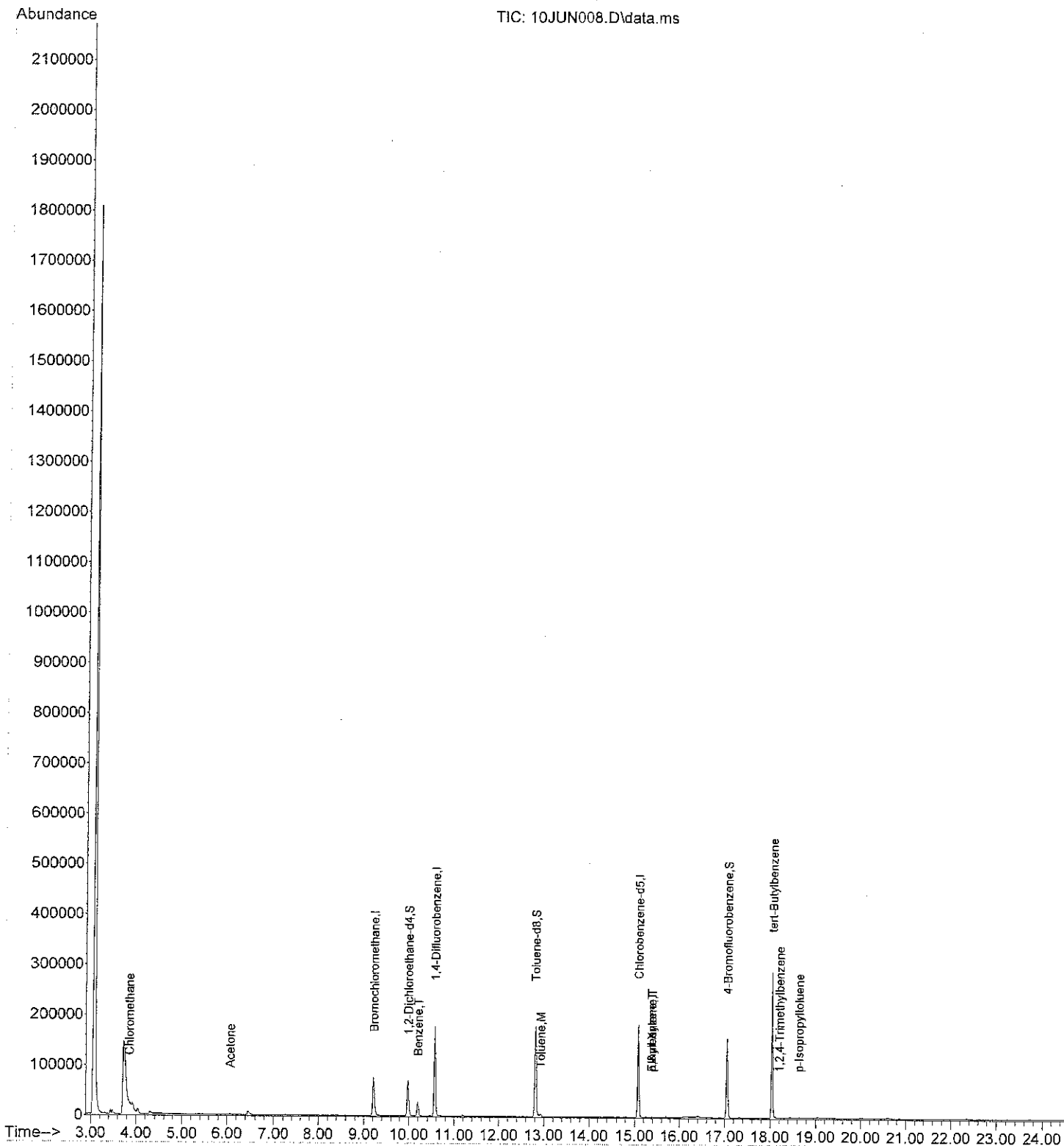
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	9.217	130	44883	10.00	ppbv	0.01
24) 1,4-Difluorobenzene	10.568	114	209211	10.00	ppbv	0.00
36) Chlorobenzene-d5	15.080	117	154556	10.00	ppbv	0.00
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	9.983	65	66350	8.47	ppbv	0.01
Spiked Amount	10.000	Range 70 - 130	Recovery	=	84.70%	
34) Toluene-d8	12.808	98	179750	10.44	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	104.40%	
53) 4-Bromofluorobenzene	17.053	174	72205	6.93	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	69.30%#	
Target Compounds						
						Qvalue
3) Chloromethane	3.852	50	391	0.05	ppbv #	44
12) Acetone	6.074	43	4156	0.22	ppbv #	52
25) Benzene	10.200	78	35715	0.96	ppbv	93
35) Toluene	12.927	91	7801	0.18	ppbv	95
46) Ethylbenzene	15.373	91	1651	0.04	ppbv	45
47) p, &m-Xylene	15.373	91	1651	0.05	ppbv	38
62) tert-Butylbenzene	18.043	119	11319	0.31	ppbv #	1
63) 1,2,4-Trimethylbenzene	18.199	105	968	0.02	ppbv	42
65) p-Isopropyltoluene	18.634	119	1887	0.05	ppbv #	49

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\150608\
 Data File : 10JUN008.D
 Acq On : 10 Jun 2015 19:19
 Operator : DT
 Sample : METHOD BLANK
 Misc : 250ML
 ALS Vial : 2 Sample Multiplier: 0.2

Quant Time: Jun 10 19:44:23 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration



7. LCS/LCSD

a. Results/Chromatograms

Criteria as listed on report

Data Path : C:\MSDCHEM\1\DATA\150608\
 Data File : 10JUN006.D
 Acq On : 10 Jun 2015 17:57
 Operator : DT
 Sample : LCS
 Misc : 50ML
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 18:21:46 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	9.205	130	46439	10.00	ppbv	0.00
24) 1,4-Difluorobenzene	10.561	114	208654	10.00	ppbv	0.00
36) Chlorobenzene-d5	15.080	117	158086	10.00	ppbv	0.00

System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	9.964	65	68522	8.77	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	87.70%	
34) Toluene-d8	12.802	98	183760	10.70	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	107.00%	
53) 4-Bromofluorobenzene	17.047	174	76651	7.20	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	72.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethan...	3.459	85	260537	9.11	ppbv	97
3) Chloromethane	3.839	50	74785	8.40	ppbv	96
4) 1,2-Cl-1,1,2,2-F ethan...	3.696	85	235796	9.07	ppbv	79
5) Vinyl Chloride	4.063	62	77435	8.75	ppbv	94
6) Bromomethane	4.748	94	41269	10.47	ppbv	90
7) Chloroethane	4.891	66	14255	10.58	ppbv	92
8) Trichlorofluoromethane...	5.358	101	261732	9.31	ppbv	95
9) 1,1-Dichloroethene	6.254	61	151090	8.56	ppbv	96
10) Carbon Disulfide	6.939	76	228334	9.07	ppbv	99
11) 1,1,2-Cl 1,2,2-F ethan...	6.099	151	173549	8.72	ppbv	79
12) Acetone	5.999	43	149121	7.46	ppbv	89
13) Methylene Chloride	6.889	84	74972	8.58	ppbv	97
14) t-1,2-Dichloroethene	7.381	96	89174	9.09	ppbv	93
15) 1,1-Dichloroethane	7.941	63	176851	8.93	ppbv	98
16) Vinyl Acetate	7.935	43	214182	7.38	ppbv	97
17) c-1,2-Dichloroethene	8.781	96	102186	9.37	ppbv	97
18) 2-Butanone	8.489	72	39254	7.88	ppbv	89
19) t-Butyl Methyl Ether	7.250	73	240824	8.93	ppbv	93
20) Chloroform	9.018	83	202860	8.94	ppbv	98
21) 1,1,1-Trichloroethane	9.628	97	206724	9.48	ppbv	97
22) 1,1-Dichloropropene	9.858	75	125929	9.08	ppbv	89
23) Carbon Tetrachloride	10.014	117	185034	9.17	ppbv	98
25) Benzene	10.194	78	334966	9.04	ppbv	97
27) 1,2-Dichloroethane	10.095	62	139727	9.03	ppbv	97
28) Trichloroethene	11.084	130	148506	9.41	ppbv	83
29) 1,2-Dichloropropane	11.284	63	106696	8.65	ppbv	85
30) Bromodichloromethane	11.588	83	194323	9.52	ppbv	98
31) Dibromomethane	11.638	93	103652	9.17	ppbv #	82
32) c-1,3-Dichloropropene	12.373	75	127171	8.53	ppbv	93
33) 4-Methyl-2-Pentanone	12.099	43	187409	8.02	ppbv	98
35) Toluene	12.921	91	378538	8.65	ppbv	95
37) t-1,3-Dichloropropene	13.082	75	105660	11.01	ppbv	95
38) 1,1,2-Trichloroethane	13.325	97	120316	10.91	ppbv	91
39) 1,3-Dichloropropane	13.699	76	147716	10.81	ppbv	99
40) Tetrachloroethene	13.948	166	179177	11.05	ppbv	95
41) 2-Hexanone	13.369	58	101733	9.34	ppbv	89
42) Dibromochloromethane	14.116	129	182420	11.83	ppbv	98
43) 1,2-Dibromoethane	14.433	107	163617	10.40	ppbv	99
44) Chlorobenzene	15.136	112	280929	10.50	ppbv	90
45) 1,1,1,2-Tetrachloroethane	15.186	131	125021	11.52	ppbv	93
46) Ethylbenzene	15.242	91	467799	10.35	ppbv	98
47) p, &m-Xylene	15.373	91	735552	21.31	ppbv	100

Data Path : C:\MSDCHEM\1\DATA\150608\
 Data File : 10JUN006.D
 Acq On : 10 Jun 2015 17:57
 Operator : DT
 Sample : LCS
 Misc : 50ML
 ALS Vial : 2 Sample Multiplier: 1

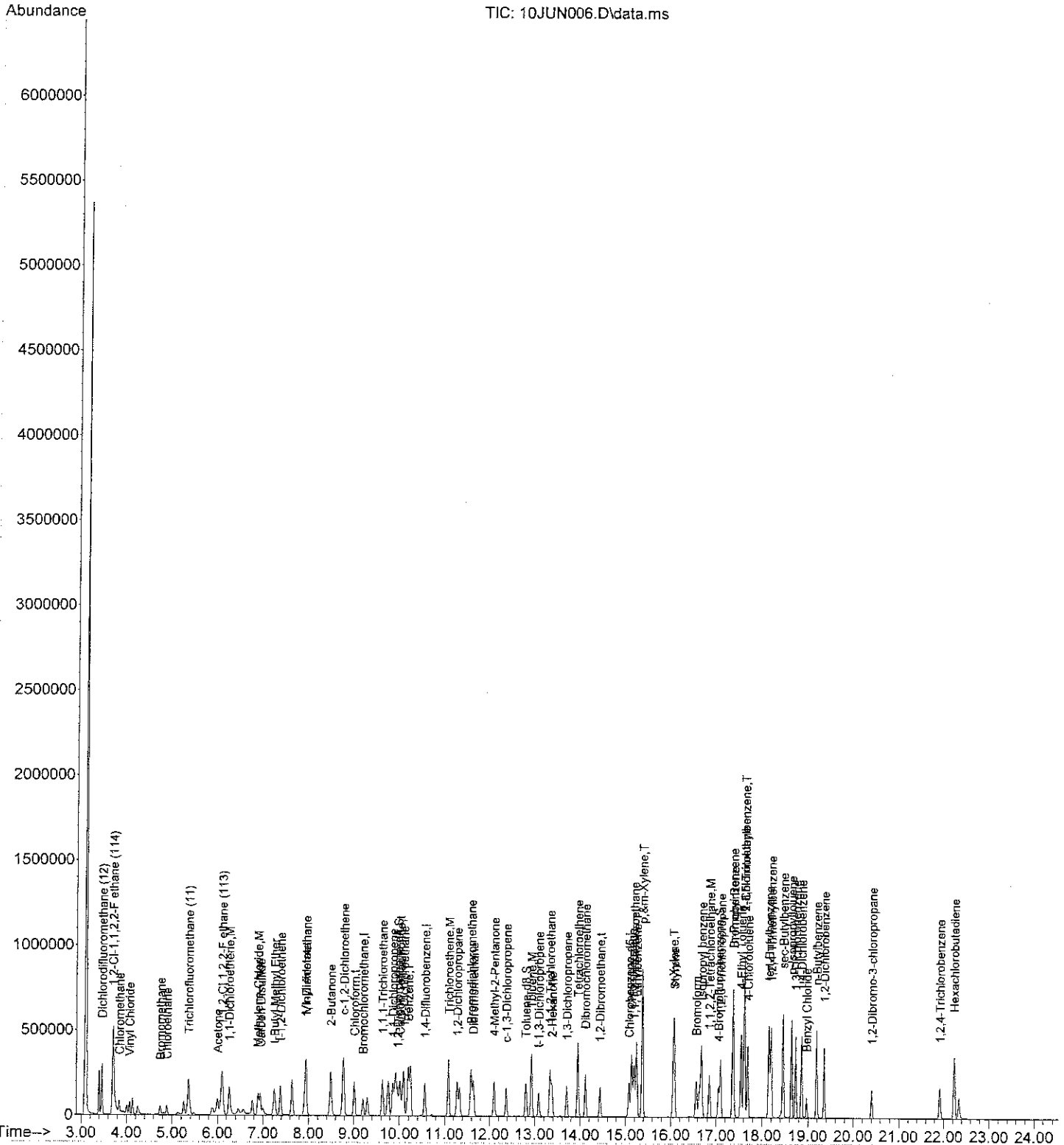
Quant Time: Jun 10 18:21:46 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) o-Xylene	16.051	91	369939	10.65	ppbv	99
49) Styrene	16.076	104	245295	10.10	ppbv	93
50) Bromoform	16.562	173	155288	12.87	ppbv	94
51) Isopropyl benzene	16.674	105	456252	11.22	ppbv	94
52) 1,1,2,2-Tetrachloroethane	16.848	83	187534	8.44	ppbv	96
54) Benzyl Chloride	18.964	91	100724	7.03	ppbv	90
55) 1,2,3-Trichloropropane	17.097	110	80637	11.24	ppbv #	85
56) n-Propyl Benzene	17.365	91	514537	11.59	ppbv	100
57) Bromobenzene	17.371	77	237418	11.42	ppbv	72
58) 4-Ethyl Toluene	17.539	105	443575	9.73	ppbv	97
59) 1,3,5-Trimethylbenzene	17.614	105	415629	10.01	ppbv	94
60) 2-Chlorotoluene	17.614	91	382524	11.35	ppbv	87
61) 4-Chlorotoluene	17.688	91	333044	11.24	ppbv	86
62) tert-Butylbenzene	18.143	119	416712	11.31	ppbv	88
63) 1,2,4-Trimethylbenzene	18.193	105	388074	9.31	ppbv	90
64) sec-Butylbenzene	18.454	105	541983	11.81	ppbv	96
65) p-Isopropyltoluene	18.634	119	413239	11.46	ppbv	92
66) 1,3-Dichlorobenzene	18.728	146	240944	9.01	ppbv	85
67) 1,4-Dichlorobenzene	18.852	146	233252	8.92	ppbv	93
68) n-Butylbenzene	19.182	91	356869	11.69	ppbv	98
69) 1,2-Dichlorobenzene	19.350	146	213411	8.31	ppbv	89
70) 1,2-Dibromo-3-chloropr...	20.408	157	67509	14.45	ppbv #	65
71) 1,2,4-Trichlorobenzene	21.915	180	100065	5.89	ppbv	90
72) Hexachlorobutadiene	22.226	225	124944	6.66	ppbv	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\150608\
 Data File : 10JUN006.D
 Acq On : 10 Jun 2015 17:57
 Operator : DT
 Sample : LCS
 Misc : 50ML
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 18:21:46 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\150608\
 Data File : 10JUN007.D
 Acq On : 10 Jun 2015 18:38
 Operator : DT
 Sample : LCSD
 Misc : 50ML
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 19:02:38 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.198	130	45931	10.00	ppbv	0.00
24) 1,4-Difluorobenzene	10.561	114	212629	10.00	ppbv	0.00
36) Chlorobenzene-d5	15.080	117	163174	10.00	ppbv	0.00
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	9.970	65	69239	8.70	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	87.00%	
34) Toluene-d8	12.802	98	185459	10.60	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	106.00%	
53) 4-Bromofluorobenzene	17.047	174	76891	6.99	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	69.90%#	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethan...	3.459	85	256471	9.07	ppbv	97
3) Chloromethane	3.839	50	75653	8.59	ppbv	92
4) 1,2-Cl-1,1,2,2-F ethan...	3.696	85	235265	9.15	ppbv	83
5) Vinyl Chloride	4.063	62	79875	9.12	ppbv	92
6) Bromomethane	4.748	94	34779	8.92	ppbv	95
7) Chloroethane	4.891	66	14017	10.52	ppbv	96
8) Trichlorofluoromethane...	5.358	101	261082	9.39	ppbv	97
9) 1,1-Dichloroethene	6.260	61	152683	8.74	ppbv	96
10) Carbon Disulfide	6.939	76	225334	9.05	ppbv	99
11) 1,1,2-Cl 1,2,2-F ethan...	6.098	151	171574	8.71	ppbv	73
12) Acetone	5.999	43	146974	7.43	ppbv	92
13) Methylene Chloride	6.889	84	74496	8.62	ppbv	96
14) t-1,2-Dichloroethene	7.387	96	88641	9.14	ppbv	96
15) 1,1-Dichloroethane	7.941	63	176712	9.02	ppbv	98
16) Vinyl Acetate	7.935	43	217769	7.58	ppbv	96
17) c-1,2-Dichloroethene	8.787	96	98498	9.13	ppbv	94
18) 2-Butanone	8.489	72	39794	8.08	ppbv	82
19) t-Butyl Methyl Ether	7.256	73	240788	9.03	ppbv	92
20) Chloroform	9.018	83	202361	9.02	ppbv	98
21) 1,1,1-Trichloroethane	9.628	97	205829	9.54	ppbv	97
22) 1,1-Dichloropropene	9.858	75	125736	9.16	ppbv	92
23) Carbon Tetrachloride	10.014	117	185589	9.30	ppbv	95
25) Benzene	10.194	78	338076	8.96	ppbv	97
27) 1,2-Dichloroethane	10.095	62	139575	8.85	ppbv	97
28) Trichloroethene	11.084	130	150534	9.36	ppbv	83
29) 1,2-Dichloropropane	11.283	63	107675	8.56	ppbv	88
30) Bromodichloromethane	11.595	83	195025	9.38	ppbv	98
31) Dibromomethane	11.638	93	103610	9.00	ppbv #	85
32) c-1,3-Dichloropropene	12.373	75	127140	8.37	ppbv	95
33) 4-Methyl-2-Pentanone	12.099	43	187102	7.86	ppbv	97
35) Toluene	12.927	91	376183	8.44	ppbv	95
37) t-1,3-Dichloropropene	13.088	75	106704	10.77	ppbv	92
38) 1,1,2-Trichloroethane	13.325	97	119359	10.48	ppbv	93
39) 1,3-Dichloropropane	13.698	76	147645	10.47	ppbv	99
40) Tetrachloroethene	13.947	166	182498	10.90	ppbv	97
41) 2-Hexanone	13.369	58	103787	9.23	ppbv	90
42) Dibromochloromethane	14.115	129	183736	11.55	ppbv	97
43) 1,2-Dibromoethane	14.439	107	166361	10.25	ppbv	95
44) Chlorobenzene	15.136	112	284016	10.28	ppbv	92
45) 1,1,1,2-Tetrachloroethane	15.192	131	124926	11.15	ppbv	94
46) Ethylbenzene	15.242	91	466992	10.01	ppbv	99
47) p, &m-Xylene	15.373	91	733094	20.58	ppbv	99

Data Path : C:\MSDCHEM\1\DATA\150608\
 Data File : 10JUN007.D
 Acq On : 10 Jun 2015 18:38
 Operator : DT
 Sample : LCSD
 Misc : 50ML
 ALS Vial : 2 Sample Multiplier: 1

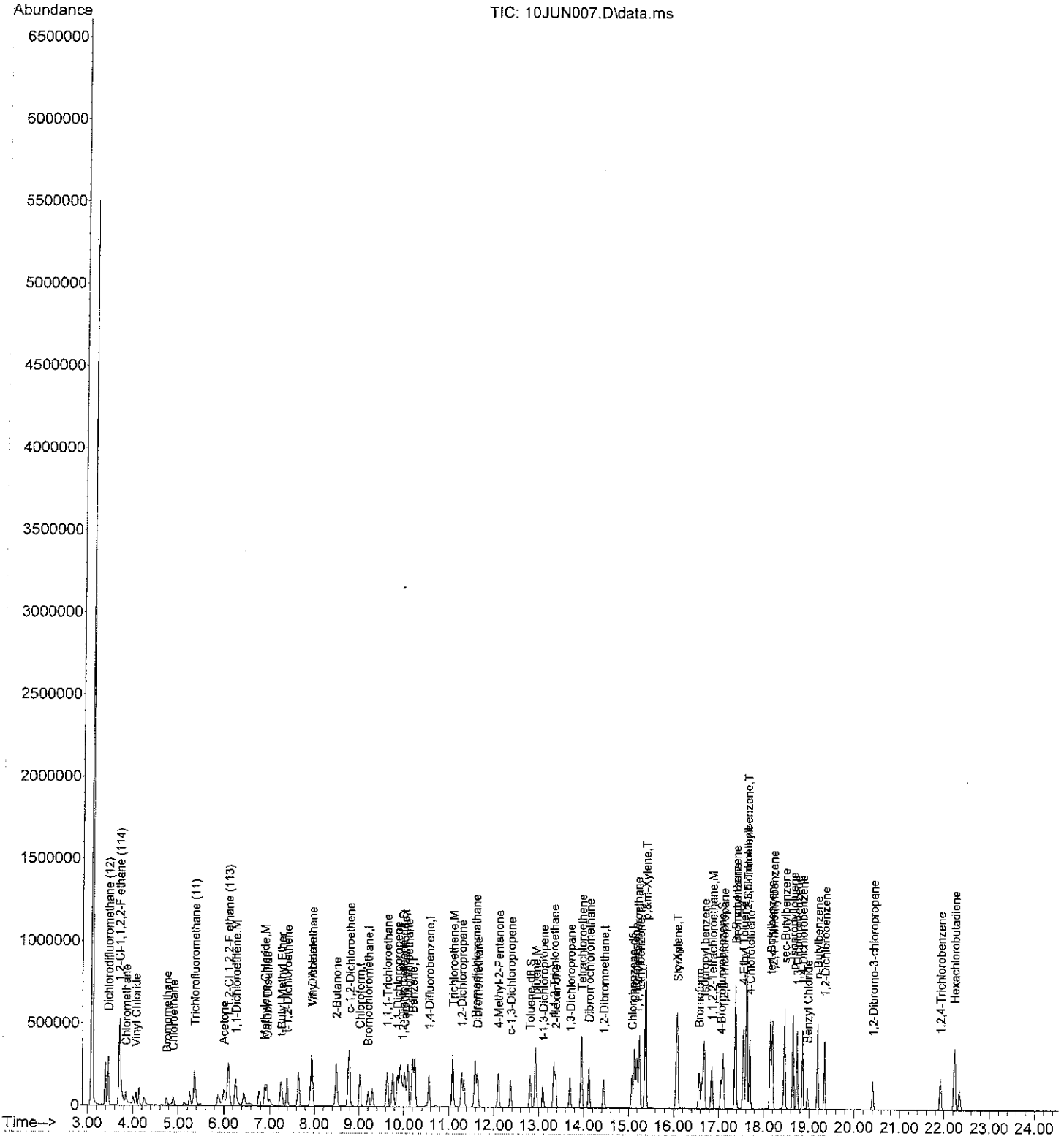
Quant Time: Jun 10 19:02:38 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) o-Xylene	16.057	91	366599	10.22	ppbv	97
49) Styrene	16.076	104	245859	9.81	ppbv	93
50) Bromoform	16.562	173	157111	12.61	ppbv	96
51) Isopropyl benzene	16.674	105	455087	10.84	ppbv	93
52) 1,1,2,2-Tetrachloroethane	16.848	83	191831	8.37	ppbv	96
54) Benzyl Chloride	18.964	91	106887	7.23	ppbv	94
55) 1,2,3-Trichloropropane	17.097	110	80634	10.89	ppbv	92
56) n-Propyl Benzene	17.365	91	512008	11.17	ppbv	99
57) Bromobenzene	17.371	77	238688	11.12	ppbv	71
58) 4-Ethyl Toluene	17.539	105	442720	9.41	ppbv	96
59) 1,3,5-Trimethylbenzene	17.614	105	410814	9.58	ppbv	95
60) 2-Chlorotoluene	17.614	91	379885	10.92	ppbv	84
61) 4-Chlorotoluene	17.688	91	342577	11.21	ppbv	87
62) tert-Butylbenzene	18.149	119	419245	11.02	ppbv	88
63) 1,2,4-Trimethylbenzene	18.192	105	387439	9.01	ppbv	92
64) sec-Butylbenzene	18.454	105	546367	11.54	ppbv	95
65) p-Isopropyltoluene	18.634	119	414264	11.13	ppbv	90
66) 1,3-Dichlorobenzene	18.728	146	242982	8.81	ppbv	85
67) 1,4-Dichlorobenzene	18.852	146	240296	8.91	ppbv	92
68) n-Butylbenzene	19.182	91	361872	11.49	ppbv	98
69) 1,2-Dichlorobenzene	19.350	146	217168	8.19	ppbv	90
70) 1,2-Dibromo-3-chloropr...	20.408	157	70249	14.57	ppbv #	68
71) 1,2,4-Trichlorobenzene	21.915	180	103749	5.91	ppbv	84
72) Hexachlorobutadiene	22.226	225	127064	6.56	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\150608\
 Data File : 10JUN007.D
 Acq On : 10 Jun 2015 18:38
 Operator : DT
 Sample : LCSD
 Misc : 50ML
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 19:02:38 2015
 Quant Method : C:\MSDCHEM\1\METHODS\TO150608.M
 Quant Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 QLast Update : Tue Jun 09 09:23:14 2015
 Response via : Initial Calibration



GC Raw Data Index

General Information

Method: ASTM D5504

Lab Project No.: G061004

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Conventions and Conversions

1 ppbv = 0.001 ppmv = 0.0000001% v/v
1% v/v = 10,000 ppmv = 10,000,000 ppbv

1 $\mu\text{g}/\text{m}^3$ = 1 ng/L = ppbv x MW/24.45
1 $\mu\text{g}/\text{L}$ = 1 mg/m^3 = ppmv x MW/24.45

Where **MW** is the molecular weight of the compound
and 24.45 is the molar volume of ideal gas at
1 atmosphere and 25° C.

1 atmosphere = 14.6 psia = 0 psig
30" Hg = 0 psia = -14.6 psig

Standard pressure is taken as 14.6 psia at Air Technology Labs' facility.

1. Supporting Documents

- a. Pressurization log (if applicable)
- b. ICAL run log
- c. CCAL/QC/Samples run log
- d. Miscellaneous documents

Instrument ID: GC 3A
 Analytical Method: Losulfur 120329
 Datafile Directory: data\2012\Mar

GC Injection Logbook

Chemist: VM
 Blank Lot #: Room Air

Date	Time	Data File	Lab Number/ Standard Type	Client/Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
3/29/12	0838	29MAR	0.05 µm LCS									
	0919	001	LCS				1108/10					
	0955	002	LCS									
	1102	003	Room Air							OKn		
	1124	004	5ppb ICAL	AW119307	SAMPLE LOOT		100/10	10	NA	OKn		120329GC3A1
	1146	005	1ppb ICAL	↓			100/10 100/20	50		OKn		
	1207	006	10 ppb ICAL	↓			100/20	5.0		OKn		
	1228	007	50 ppb ↓	AW119307				1.0		OKn		
	1246	008	20 ppb ↓	↓			100/40	2.5		OKn		
	1301	009	100 ppb ↓	AW119301			100/10	10		OKn		
	1323	010	200 ppb ↓	↓			100/20	5		OKn		
	1345	011	20 ppb ICV	AW119306			100/20 100/10	50		NOu	reprep	
	1454	012	20 ppb ICV	AW119308			100/40	2.5		OKn		
	1515	013	↓ LCSD	AW119310				1.0		NOu	MM, EM (31-36/D)	
	1534	014	↓ LCSD	↓				↓		NOu	FF in 3/29/12	
	1551	015	20 ppb CCV	AW119307				2.5		OKn	to verify	
	1607	016	20 ppb LCS	AW119310				2.5		OKn	non-contamin	
	1629	017	M. Blak	Room Air						OKn		
	1651	018	D032303-01	ICF		19.6 12.7		1.542		dec		
↓	1713	↓ 019	↓ -03	↓	↓			1.0	↓	OKn		

Approved by/Date: VM 3/9/12

Instrument ID: GC 3A

GC Injection Logbook

Chemist: AS

Analytical Method: 20sulfurhex29

Blank Lot #: -

Datafile Directory: Standard\2015\Jun

Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
6/16/15	1349	12Jun008	Sulfur CV	AK1204709	10µL Loop	-	-	1.0	-	ok		150606C3A1 ✓
	1411	009	Method Blank	-								
	1433	010	Cr061004-01 CH2M									
	1458	011	-05									
	1517	012	-03									
	1539	013	-04									
	1602	014	-02									
	1624	015	-06									
6/11/15	0804	016	Sulfur LCS	AK1204708								
	0826	017	Sulfur LCS									
	0848	018	Sulfur CV	AK1204707								

2. Sample Raw Data

- a. Calculations (if applicable)
- b. Chromatograms/Results

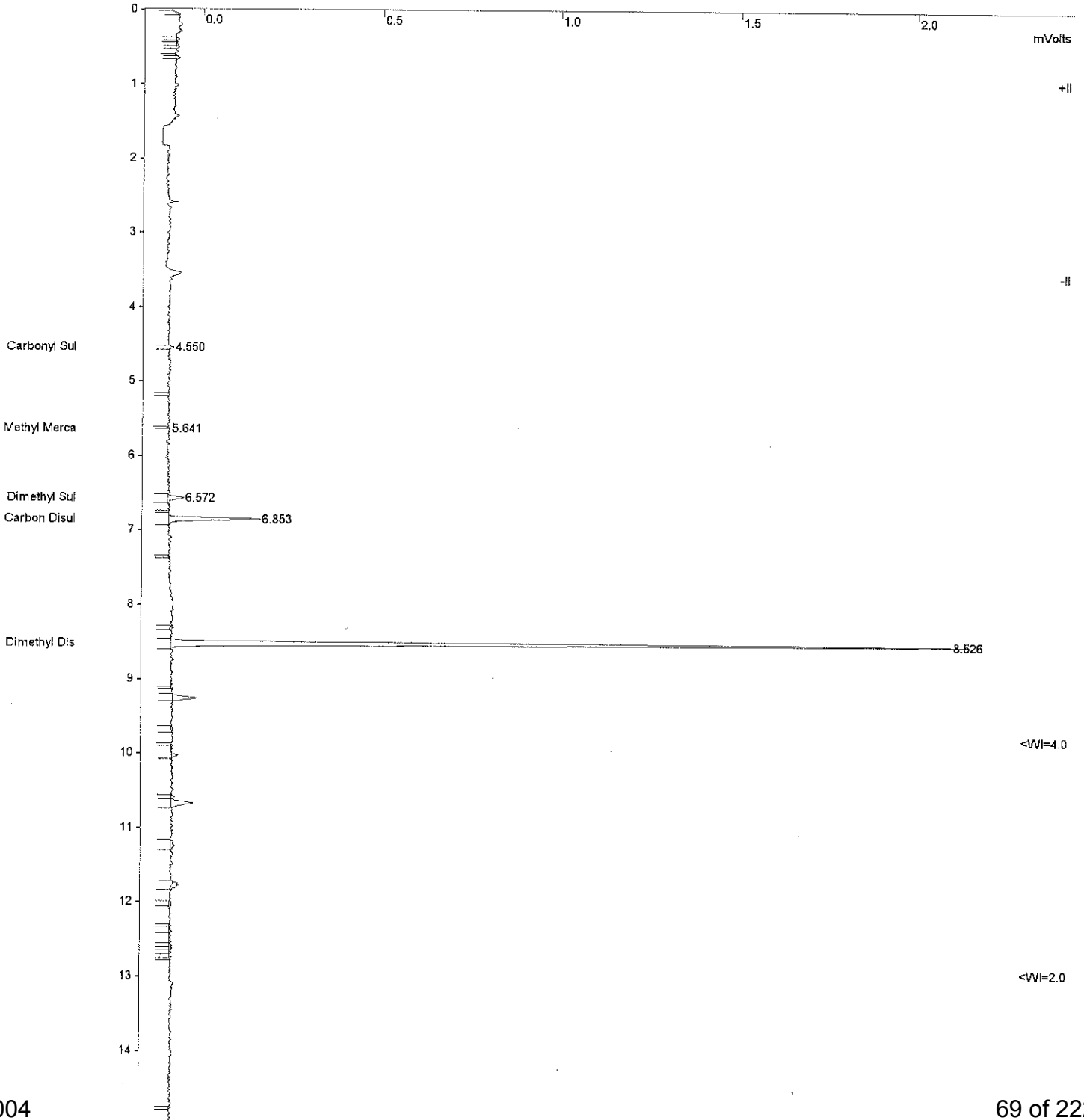
Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun010.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : G061004-01 CH2M

Injection Date: 6/10/15 2:33 PM Calculation Date: 6/10/15 2:48 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.985 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.32 cm/min Attenuation = 1 Zero Offset = 6%
Start Time = 0.000 min End Time = 14.985 min Min / Tick = 1.00



Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun010.run
Method File : C:\Star\GC3A\lo_sulfur120329.mth
Sample ID : G061004-01 CH2M

Injection Date: 6/10/15 2:33 PM Calculation Date: 6/10/15 2:48 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.985 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Square Root of Peak Height
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (ppmv), Ret. Time (min), Time Offset (min), Sq. Root Height (counts), Sep. Code, Width 1/2 (sec), Status Codes. Contains 7 rows of peak data and a Totals row.

Status Codes:
M - Missing peak

Total Unidentified Counts : 99 counts

Detected Peaks: 36 Rejected Peaks: 0 Identified Peaks: 7

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -86 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - fixed value
Noise (monitored before this run): 10 microVolts

Manual injection

Original Notes:

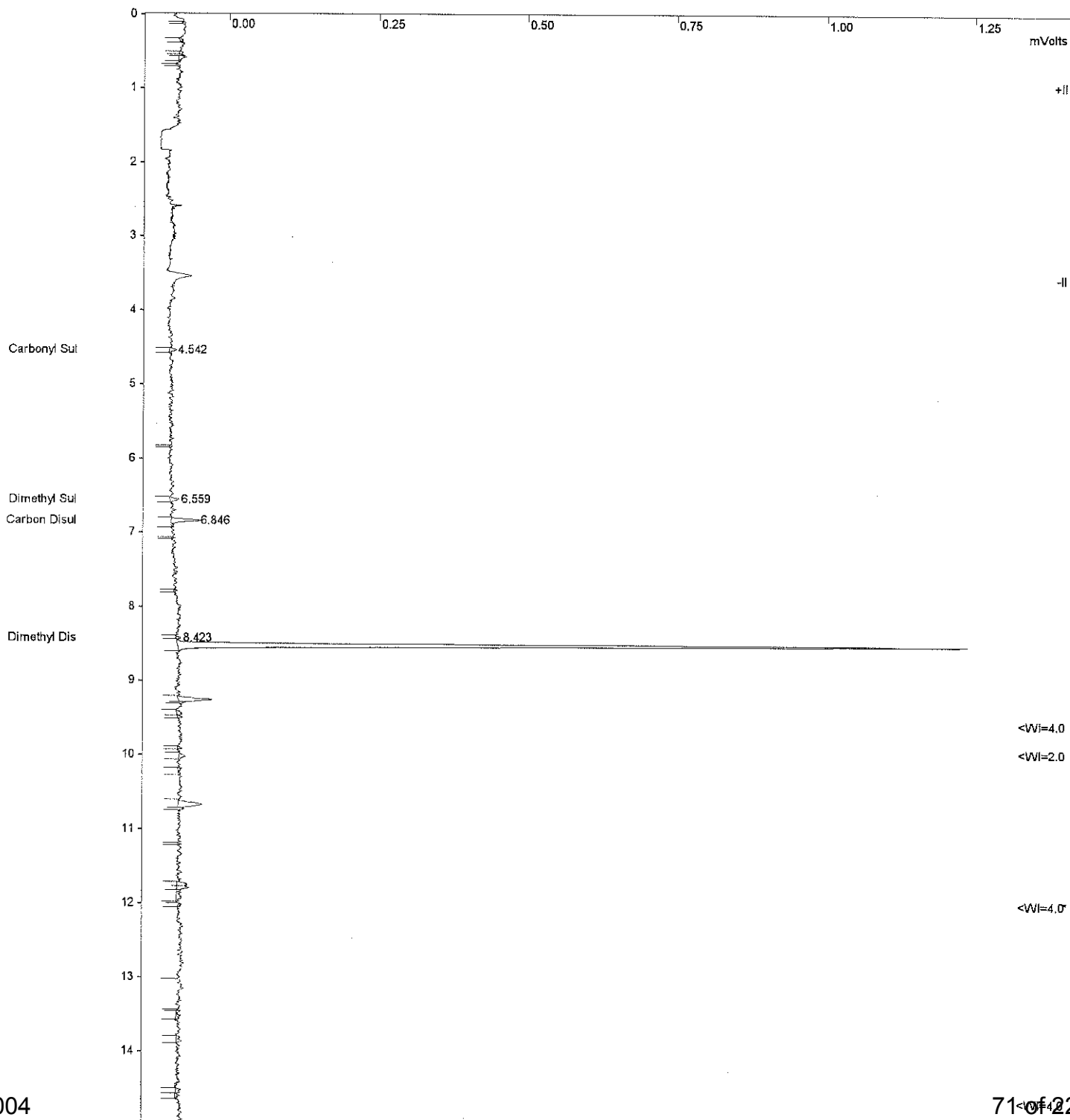
Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun014.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : G061004-02 CH2M

Injection Date: 6/10/15 4:02 PM Calculation Date: 6/10/15 4:17 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.32 cm/min Attenuation = 1 Zero Offset = 5%
Start Time = 0.000 min End Time = 14.987 min Min / Tick = 1.00



Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun014.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : G061004-02 CH2M

Injection Date: 6/10/15 4:02 PM Calculation Date: 6/10/15 4:17 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Square Root of Peak Height
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (ppmv), Ret. Time (min), Time Offset (min), Sq. Root Height (counts), Sep. Code, Width 1/2 (sec), Status Codes. Contains 7 rows of peak data and a Totals row.

Status Codes:
M - Missing peak

Total Unidentified Counts : 125 counts

Detected Peaks: 33 Rejected Peaks: 0 Identified Peaks: 7

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -93 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - fixed value
Noise (monitored before this run): 12 microVolts

Manual injection

Original Notes:

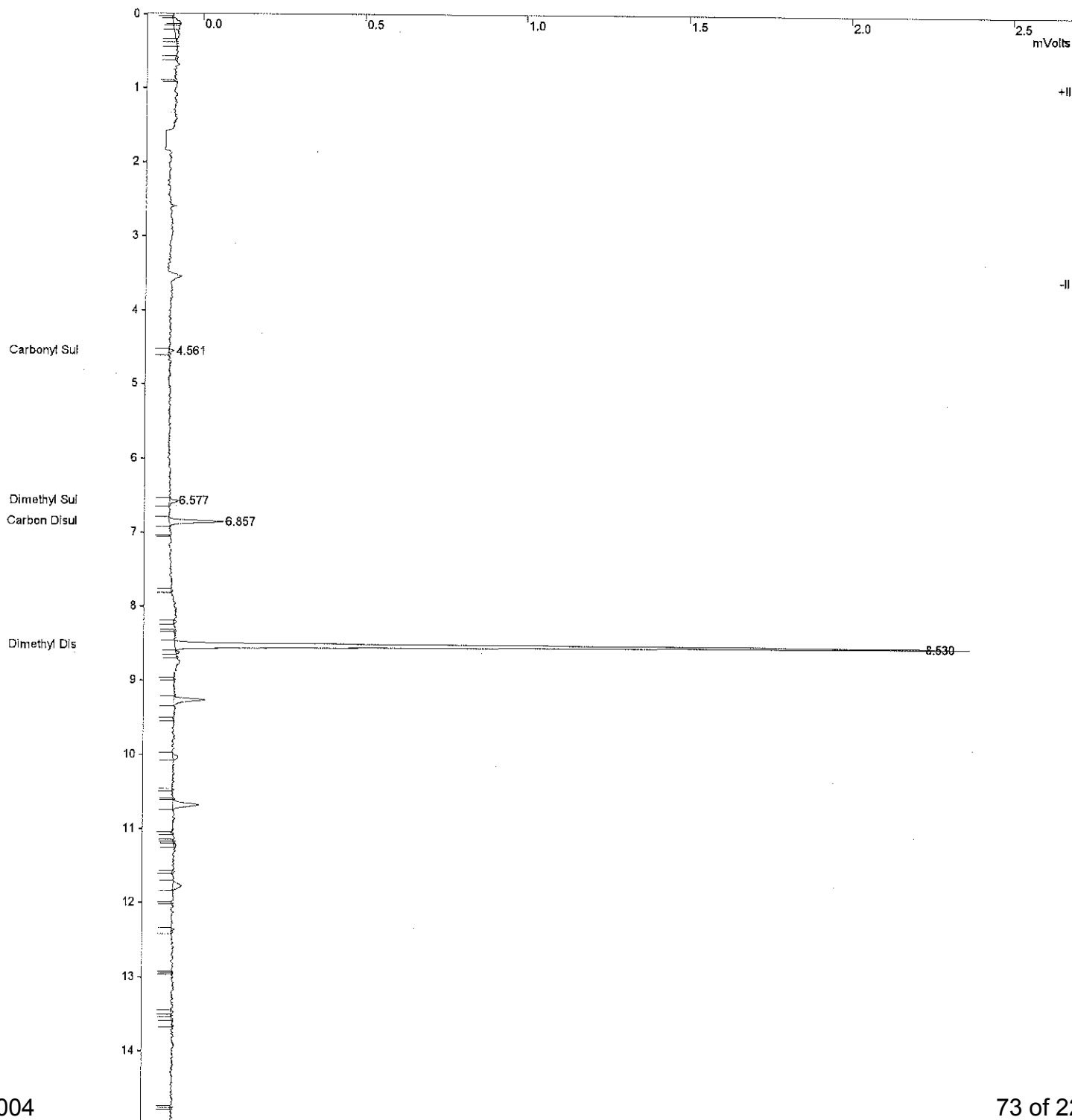
Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun012.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : G061004-03 CH2M

Injection Date: 6/10/15 3:17 PM Calculation Date: 6/10/15 3:32 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.32 cm/min Attenuation = 1 Zero Offset = 7%
Start Time = 0.000 min End Time = 14.987 min Min / Tick = 1.00



Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun012.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : G061004-03 CH2M

Injection Date: 6/10/15 3:17 PM Calculation Date: 6/10/15 3:32 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Square Root of Peak Height
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (ppmv), Ret. Time (min), Time Offset (min), Sq. Root Height (counts), Sep. Code, Width 1/2 (sec), Status Codes. Contains 7 rows of peak data and a Totals row.

Status Codes:
M - Missing peak

Total Unidentified Counts : 127 counts

Detected Peaks: 12 Rejected Peaks: 0 Identified Peaks: 7

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -90 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - fixed value
Noise (monitored before this run): 13 microVolts

Manual injection

Original Notes:

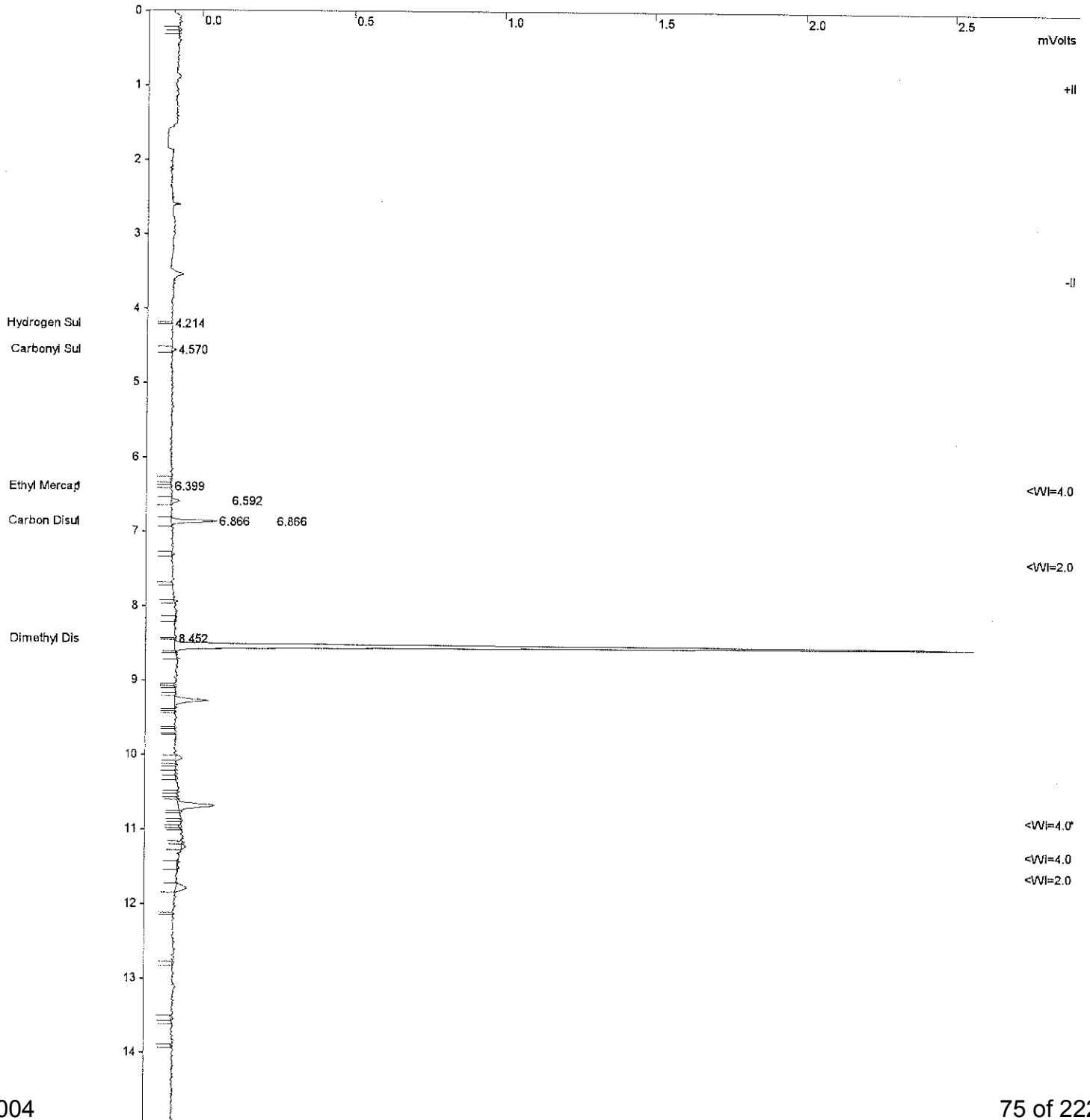
Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun013.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : G061004-04 CH2M

Injection Date: 6/10/15 3:39 PM Calculation Date: 6/10/15 3:54 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.32 cm/min Attenuation = 1 Zero Offset = 7%
Start Time = 0.000 min End Time = 14.987 min Min / Tick = 1.00



Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun013.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : G061004-04 CH2M

Injection Date: 6/10/15 3:39 PM Calculation Date: 6/10/15 3:54 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Square Root of Peak Height
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (ppmv), Ret. Time (min), Time Offset (min), Sq. Root Height (counts), Sep. Code, Width 1/2 (sec), Status Codes. Contains 7 rows of peak data and a Totals row.

Status Codes:
M - Missing peak

Total Unidentified Counts : 176 counts

Detected Peaks: 44 Rejected Peaks: 0 Identified Peaks: 7

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -93 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - fixed value
Noise (monitored before this run): 18 microVolts

Manual injection

Original Notes:

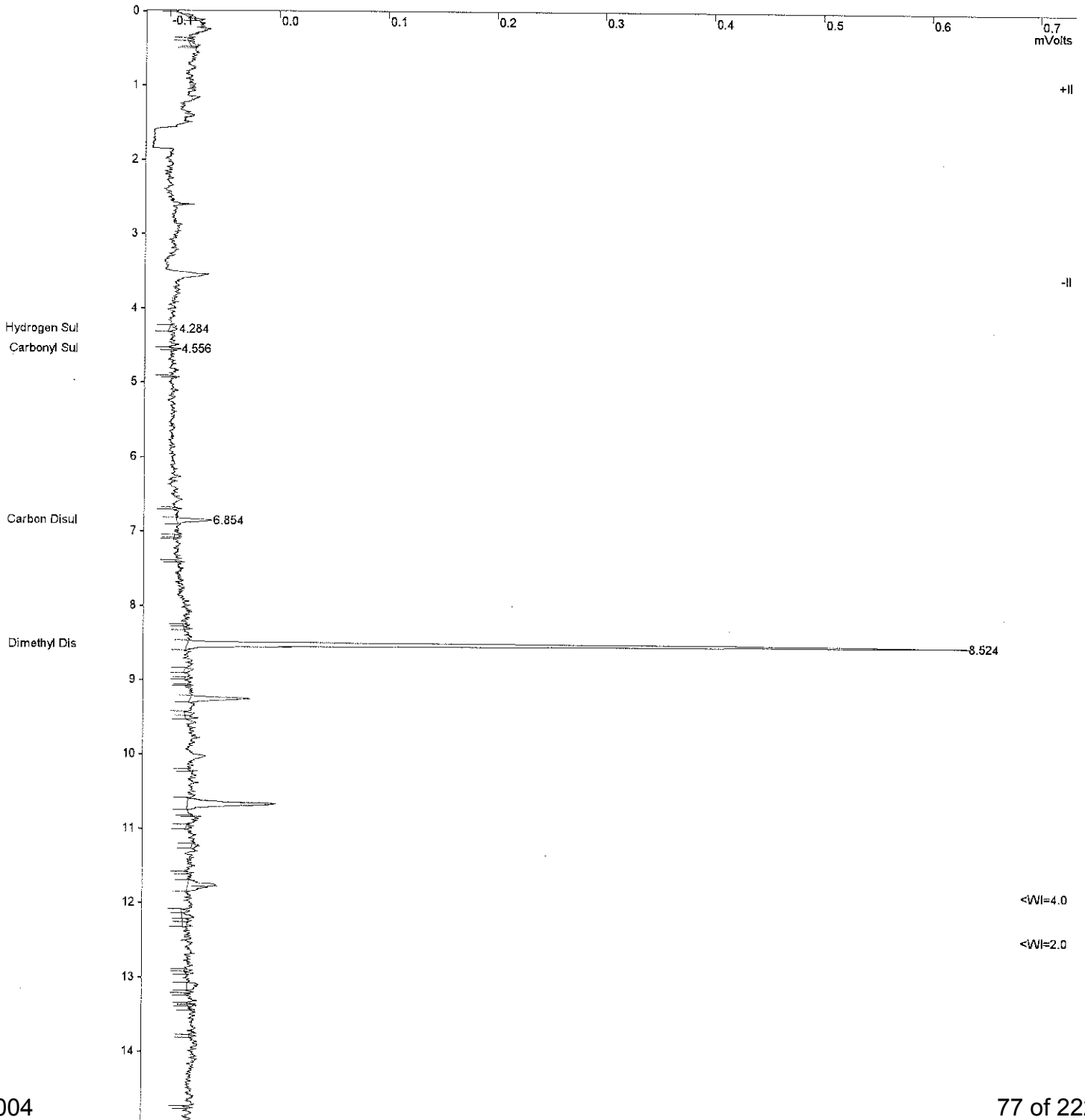
Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun011.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : G061004-05 CH2M

Injection Date: 6/10/15 2:55 PM Calculation Date: 6/10/15 3:10 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.985 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.32 cm/min Attenuation = 1 Zero Offset = 4%
Start Time = 0.000 min End Time = 14.985 min Min / Tick = 1.00



Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun011.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : G061004-05 CH2M

Injection Date: 6/10/15 2:55 PM Calculation Date: 6/10/15 3:10 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.985 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Square Root of Peak Height
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (ppmv), Ret. Time (min), Time Offset (min), Sq. Root Height (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen Sul, Carbonyl Sul, Methyl Merca, Ethyl Mercap, Dimethyl Sul, Carbon Disul, Dimethyl Dis, and Totals.

Status Codes:
M - Missing peak

Total Unidentified Counts : 119 counts

Detected Peaks: 42 Rejected Peaks: 0 Identified Peaks: 7

Multiplier: 1 / Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -94 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - fixed value
Noise (monitored before this run): 14 microVolts

Manual injection

Original Notes:

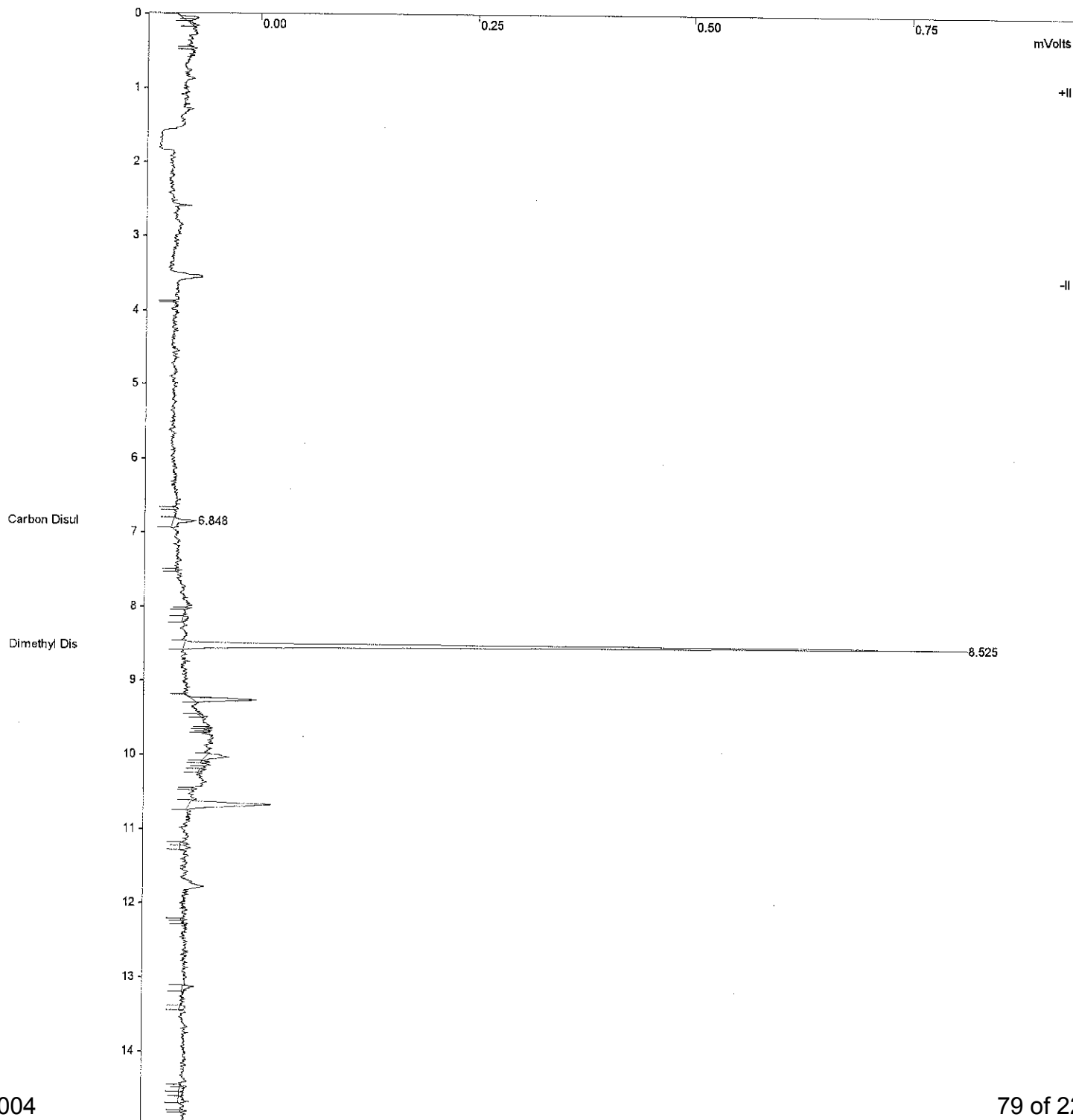
Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun015.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : G061004-06 CH2M

Injection Date: 6/10/15 4:24 PM Calculation Date: 6/10/15 4:39 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.32 cm/min Attenuation = 1 Zero Offset = 5%
Start Time = 0.000 min End Time = 14.987 min Min / Tick = 1.00



Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun015.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : G061004-06 CH2M

Injection Date: 6/10/15 4:24 PM Calculation Date: 6/10/15 4:39 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Square Root of Peak Height
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (ppmv), Ret. Time (min), Time Offset (min), Sq. Root Height (counts), Sep. Code, Width 1/2 (sec), Status Codes. Contains 7 rows of peak data and a Totals row.

Status Codes:
M - Missing peak

Total Unidentified Counts : 105 counts

Detected Peaks: 33 Rejected Peaks: 0 Identified Peaks: 7

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -93 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - fixed value
Noise (monitored before this run): 11 microVolts

Manual injection

Original Notes:

3. Initial Calibration

- a. ICAL Summary
- b. Chromatograms/Results

Case : Calibration Block Report
 Method File : c:\star\gc3a\lo sulfur120329.mth
 Data Method Time : 5/1/13 12:43 PM
 Requested Curve Type : linear
 Requested Origin : force
 Calibration Type : External Standard Analysis

Method Detector Type : 3800 GC
 Method Bus Address : 46
 Method Channel : Rear

Calibration Dates :
 Last Injection Date : 3/29/12 1:23 PM
 Last Recalculation Date : 3/29/12 1:38 PM

*****GC Workstation Multi Instrument*****Version 6.30*****

Retention Time (min)	Peak Name	Curve\ Origin	X ³	X ²	X	C	r ²	Cal. Range	No. of Points	Edit Codes
3.964	Hydrogen Sulfide	1 F			+2.5861e+003	+0.0000e+000	+9.9932e-001	1-7	7	
4.224	Carbonyl Sulfide	1 F			+3.6207e+003	+0.0000e+000	+9.9963e-001	1-6	6	
5.144	Methyl Mercaptan	1 F			+2.7918e+003	+0.0000e+000	+9.9797e-001	2-7	6	
6.033	Ethyl Mercaptan	1 F			+2.3137e+003	+0.0000e+000	+9.9882e-001	2-7	6	
6.209	Dimethyl Sulfide	1 F			+2.7828e+003	+0.0000e+000	+9.9729e-001	1-7	7	
6.481	Carbon Disulfide	1 F			+6.1023e+003	+0.0000e+000	+9.9656e-001	1-6	6	
8.092	Dimethyl Disulfid	1 F			+6.1080e+003	+0.0000e+000	+9.9978e-001	1-6	6	

Curve Codes	Origin Codes	Edit Codes
1 linear	I include	1 curve
2 quadratic	IG ignore	2 origin
3 cubic	F force	3 coefficient

Ret. Time: 3.964 min.

Peak Name: Hydrogen Sulfide

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	0.001000	1	4	4.4	#
2	0.005000	1	14	14.0	#
3	0.010000	1	26	25.6	#
4	0.020000	1	49	48.9	#
5	0.050000	1	121	121.0	#
6	0.100000	1	267	267.2	#
7	0.200000	1	515	515.2	#

Peak Measurement: SqRt Height

Curve\Origin: 1 F

Ret. Time: 4.224 min.

Peak Name: Carbonyl Sulfide

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	0.001000	1	6	5.5	#
2	0.005000	1	21	20.7	#
3	0.010000	1	37	37.3	#
4	0.020000	1	71	70.7	#
5	0.050000	1	177	176.6	#
6	0.100000	1	364	364.4	#
7	0.200000	1 X	586	585.8	#

Peak Measurement: SqRt Height

Curve\Origin: 1 F

Ret. Time: 5.144 min.

Peak Name: Methyl Mercaptan

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	0.005000	1	10	10.5	#
2	0.010000	1	22	21.6	#
3	0.020000	1	44	44.2	#
4	0.050000	1	128	128.0	#

Peak Measurement: SqRt Height

Curve\Origin: 1 F

Print Date: 05 May 2013 19:53:27

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0.100000	1	296	295.9	#
0.200000	1	554	554.5	#

Ret. Time: 6.033 min.

Peak Name: Ethyl Mercaptan

Peak Measurement: SqRt Height

Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
2	0.005000	1	10	9.7	#
3	0.010000	1	19	19.4	#
4	0.020000	1	40	39.6	#
5	0.050000	1	102	101.6	#
6	0.100000	1	225	225.0	#
7	0.200000	1	470	470.4	#

Ret. Time: 6.209 min.

Peak Name: Dimethyl Sulfide

Peak Measurement: SqRt Height

Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	0.001000	1	3	3.3	#
2	0.005000	1	15	15.3	#
3	0.010000	1	28	28.2	#
4	0.020000	1	53	53.0	#
5	0.050000	1	135	135.0	#
6	0.100000	1	303	302.5	#
7	0.200000	1	546	545.7	#

Ret. Time: 6.481 min.

Peak Name: Carbon Disulfide

Peak Measurement: SqRt Height

Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	0.001000	1	7	7.1	#
2	0.005000	1	34	34.3	#
3	0.010000	1	64	64.4	#
4	0.020000	1	128	127.8	#
5	0.050000	1	334	334.3	#
6	0.100000	1	594	594.0	#
7	0.200000	1 X	656	656.4	#

Ret. Time: 8.092 min.

Peak Name: Dimethyl Disulfide

Peak Measurement: SqRt Height

Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	0.001000	1	10	10.5	#
2	0.005000	1	39	39.1	#
3	0.010000	1	68	67.8	#
4	0.020000	1	126	126.1	#
5	0.050000	1	311	310.6	#
6	0.100000	1	606	606.3	#
7	0.200000	1 X	655	654.6	#

= Too few points to calculate.

X = Excluded Point

Peak Name	Level	Rep.	Injection Date Time	Run Files
Hydrogen Sulfide	1	1	3/29/12 11:46 AM	c:\star\data\2012\mar\29mar005.run
	2	1	3/29/12 11:24 AM	c:\star\data\2012\mar\29mar004.run
	3	1	3/29/12 12:07 PM	c:\star\data\2012\mar\29mar006.run
	4	1	3/29/12 12:46 PM	c:\star\data\2012\mar\29mar008.run
	5	1	3/29/12 12:28 PM	c:\star\data\2012\mar\29mar007.run
	6	1	3/29/12 1:01 PM	c:\star\data\2012\mar\29mar009.run
	7	1	3/29/12 1:23 PM	c:\star\data\2012\mar\29mar010.run
Carbonyl Sulfide	1	1	3/29/12 11:46 AM	c:\star\data\2012\mar\29mar005.run

Print Date: 05 May 2013 19:53:27

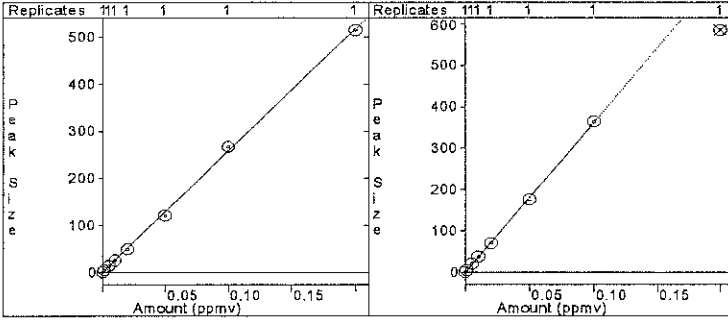
8301022

	2	1	3/29/12 11:24 AM	c:\star\data\2012\mar\29mar004.run
	3	1	3/29/12 12:07 PM	c:\star\data\2012\mar\29mar006.run
	4	1	3/29/12 12:46 PM	c:\star\data\2012\mar\29mar008.run
	5	1	3/29/12 12:28 PM	c:\star\data\2012\mar\29mar007.run
	6	1	3/29/12 1:01 PM	c:\star\data\2012\mar\29mar009.run
	7	1 X	3/29/12 1:23 PM	c:\star\data\2012\mar\29mar010.run
Methyl Mercaptan	2	1	3/29/12 11:24 AM	c:\star\data\2012\mar\29mar004.run
	3	1	3/29/12 12:07 PM	c:\star\data\2012\mar\29mar006.run
	4	1	3/29/12 12:46 PM	c:\star\data\2012\mar\29mar008.run
	5	1	3/29/12 12:28 PM	c:\star\data\2012\mar\29mar007.run
	6	1	3/29/12 1:01 PM	c:\star\data\2012\mar\29mar009.run
	7	1	3/29/12 1:23 PM	c:\star\data\2012\mar\29mar010.run
Ethyl Mercaptan	2	1	3/29/12 11:24 AM	c:\star\data\2012\mar\29mar004.run
	3	1	3/29/12 12:07 PM	c:\star\data\2012\mar\29mar006.run
	4	1	3/29/12 12:46 PM	c:\star\data\2012\mar\29mar008.run
	5	1	3/29/12 12:28 PM	c:\star\data\2012\mar\29mar007.run
	6	1	3/29/12 1:01 PM	c:\star\data\2012\mar\29mar009.run
	7	1	3/29/12 1:23 PM	c:\star\data\2012\mar\29mar010.run
Dimethyl Sulfide	1	1	3/29/12 11:46 AM	c:\star\data\2012\mar\29mar005.run
	2	1	3/29/12 11:24 AM	c:\star\data\2012\mar\29mar004.run
	3	1	3/29/12 12:07 PM	c:\star\data\2012\mar\29mar006.run
	4	1	3/29/12 12:46 PM	c:\star\data\2012\mar\29mar008.run
	5	1	3/29/12 12:28 PM	c:\star\data\2012\mar\29mar007.run
	6	1	3/29/12 1:01 PM	c:\star\data\2012\mar\29mar009.run
	7	1	3/29/12 1:23 PM	c:\star\data\2012\mar\29mar010.run
Carbon Disulfide	1	1	3/29/12 11:46 AM	c:\star\data\2012\mar\29mar005.run
	2	1	3/29/12 11:24 AM	c:\star\data\2012\mar\29mar004.run
	3	1	3/29/12 12:07 PM	c:\star\data\2012\mar\29mar006.run
	4	1	3/29/12 12:46 PM	c:\star\data\2012\mar\29mar008.run
	5	1	3/29/12 12:28 PM	c:\star\data\2012\mar\29mar007.run
	6	1	3/29/12 1:01 PM	c:\star\data\2012\mar\29mar009.run
	7	1 X	3/29/12 1:23 PM	c:\star\data\2012\mar\29mar010.run
Dimethyl Disulfide	1	1	3/29/12 11:46 AM	c:\star\data\2012\mar\29mar005.run
	2	1	3/29/12 11:24 AM	c:\star\data\2012\mar\29mar004.run
	3	1	3/29/12 12:07 PM	c:\star\data\2012\mar\29mar006.run
	4	1	3/29/12 12:46 PM	c:\star\data\2012\mar\29mar008.run
	5	1	3/29/12 12:28 PM	c:\star\data\2012\mar\29mar007.run
	6	1	3/29/12 1:01 PM	c:\star\data\2012\mar\29mar009.run
	7	1 X	3/29/12 1:23 PM	c:\star\data\2012\mar\29mar010.run

X = Excluded Point

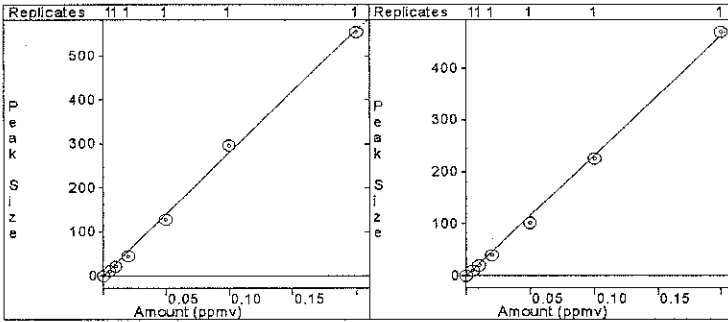
Hydrogen Sulfide
 External Standard Analysis
 Resp. Fact. RSD: 24.19%
 Curve Type: Linear
 Origin: Force
 Coeff. Det. (r²): 0.999316
 y = +2.5861e+003x

Carbonyl Sulfide
 External Standard Analysis
 Resp. Fact. RSD: 19.06%
 Curve Type: Linear
 Origin: Force
 Coeff. Det. (r²): 0.999632
 y = +3.6207e+003x



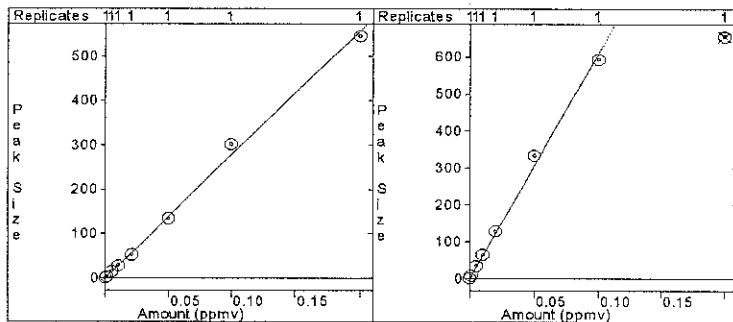
Methyl Mercaptan
 External Standard Analysis
 Resp. Fact. RSD: 14.56%
 Curve Type: Linear
 Origin: Force
 Coeff. Det. (r²): 0.997956
 y = +2.7918e+003x

Ethyl Mercaptan
 External Standard Analysis
 Resp. Fact. RSD: 8.418%
 Curve Type: Linear
 Origin: Force
 Coeff. Det. (r²): 0.998821
 y = +2.3137e+003x

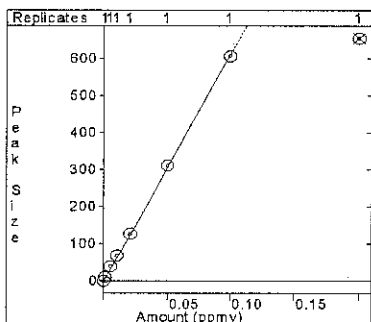


Dimethyl Sulfide
 External Standard Analysis
 Resp. Fact. RSD: 8.042%
 Curve Type: Linear
 Origin: Force
 Coeff. Det.(r²): 0.997289
 y = +2.7828e+003x

Carbon Disulfide
 External Standard Analysis
 Resp. Fact. RSD: 6.239%
 Curve Type: Linear
 Origin: Force
 Coeff. Det.(r²): 0.996565
 y = +6.1023e+003x



Dimethyl Disulfide
 External Standard Analysis
 Resp. Fact. RSD: 23.20%
 Curve Type: Linear
 Origin: Force
 Coeff. Det.(r²): 0.998779
 y = +6.1080e+003x



EPA 15/16 METHOD DETECTION LIMIT STUDY

Date: 4/14/2011
 Chemist: ZK

	#1	#2	#3	#4	#5	#6	#7	MDLvsRL	MDLvsSpkA	mt
	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)
Data files1	14apr006	14apr007	14apr008	14apr009	14apr010	14apr011	14apr012			
Data files2										
Spike Amt	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)			
Hydrogen Sulfide	0.0050	0.00540	0.00497	0.00494	0.00505	0.00494	0.00506	0.00030	0.00094	0.0050
Carbonyl Sulfide	0.0050	0.00687	0.00621	0.00639	0.00598	0.00599	0.00649	0.00033	0.00103	0.0050
Methyl Mercaptan	0.0050	0.00502	0.00453	0.00465	0.00398	0.00459	0.00500	0.00035	0.00111	0.0050
Ethyl Mercaptan	0.0050	0.00579	0.00494	0.00494	0.00437	0.00472	0.00487	0.00049	0.00155	0.0050
Dimethyl Sulfide	0.0050	0.00653	0.00585	0.00597	0.00548	0.00578	0.00609	0.00032	0.00102	0.0050
Carbon Disulfide	0.0050	0.00726	0.00653	0.00670	0.00670	0.00663	0.00713	0.00031	0.00096	0.0050
Dimethyl Disulfide	0.0050	0.00866	0.00826	0.00852	0.00778	0.00843	0.00867	0.00052	0.00165	0.0050

MDL<=0.5 *RL MDL>=Spk. Amt*0.1

1
 OK OK OK OK OK OK OK OK OK OK

APPROVAL: _____ DATE: _____

APPROVAL: _____ DATE: _____

4. Continuing Calibration

- a. CCAL Summary**
- b. Chromatograms/Results**

Continuing Calibration Criteria:

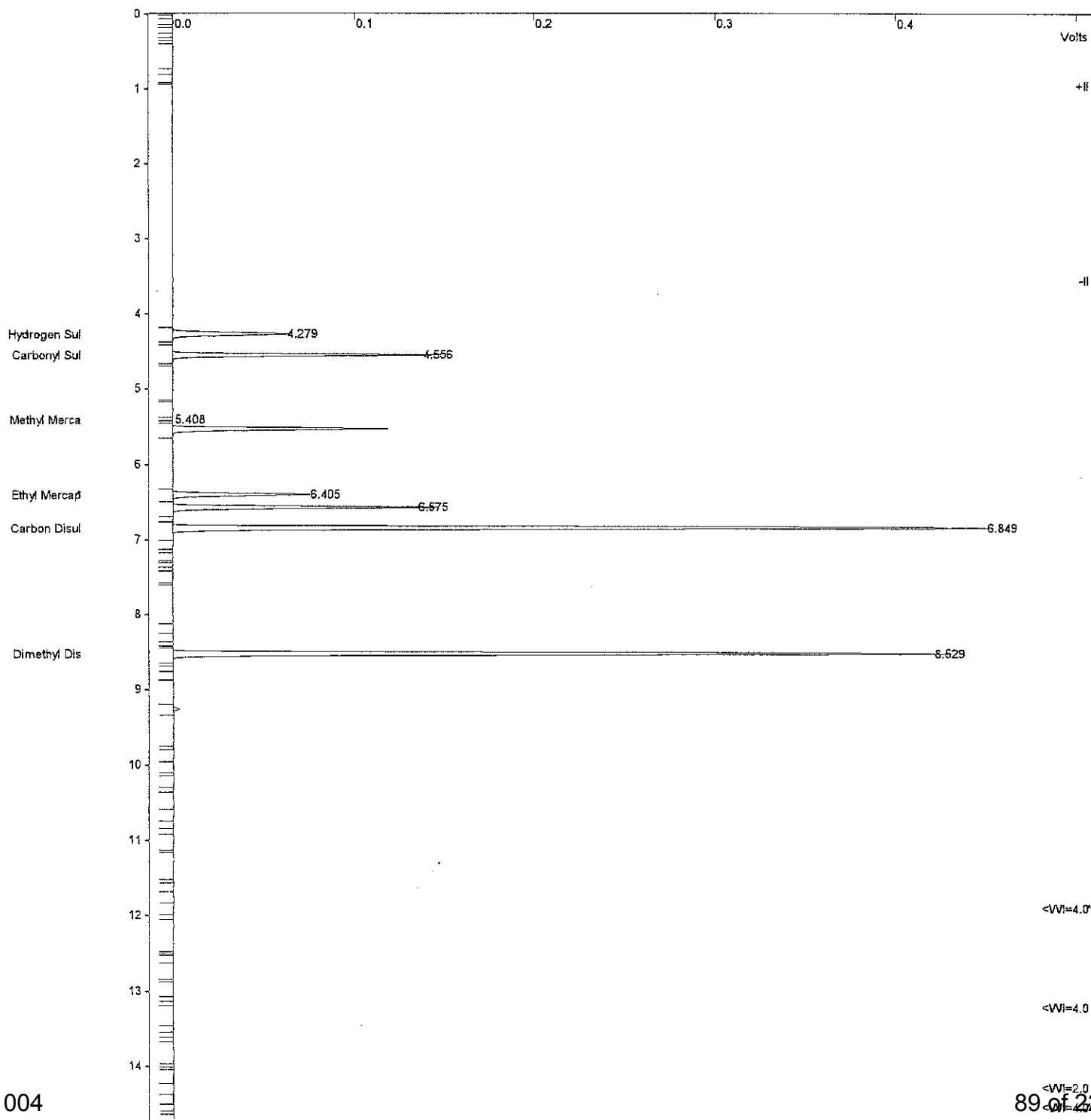
Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun008.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : Sulfur CCV

Injection Date: 6/10/15 1:49 PM Calculation Date: 6/10/15 2:04 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.32 cm/min Attenuation = 213 Zero Offset = 2%
Start Time = 0.000 min End Time = 14.987 min Min / Tick = 1.00



Verification Report

Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun008.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : Sulfur CCV

Injection Date: 6/10/15 1:49 PM Calculation Date: 6/10/15 2:04 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Square Root of Peak Height
Calculation Type: External Standard
Level : 6
Tolerance : 25.0%

Table with 9 columns: Peak No., Peak Name, Expected Result (ppmv), Calculated Result (ppmv), Dev. %, Ret. Time (min), Time Offset (min), Sq. Root Height (counts), Status Codes. Contains 7 rows of peak data and a Totals row.

Status Codes:
V - Out of verification tolerance
C - Out of calibration range

Total Unidentified Counts : 581 counts

Detected Peaks: 52 Rejected Peaks: 0 Identified Peaks: 7

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -81 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - fixed value
Noise (monitored before this run): 19 microVolts

Manual injection

Calib. out of range; No Recovery Action Specified
Verification Failure; No Recovery Action Specified

Original Notes:

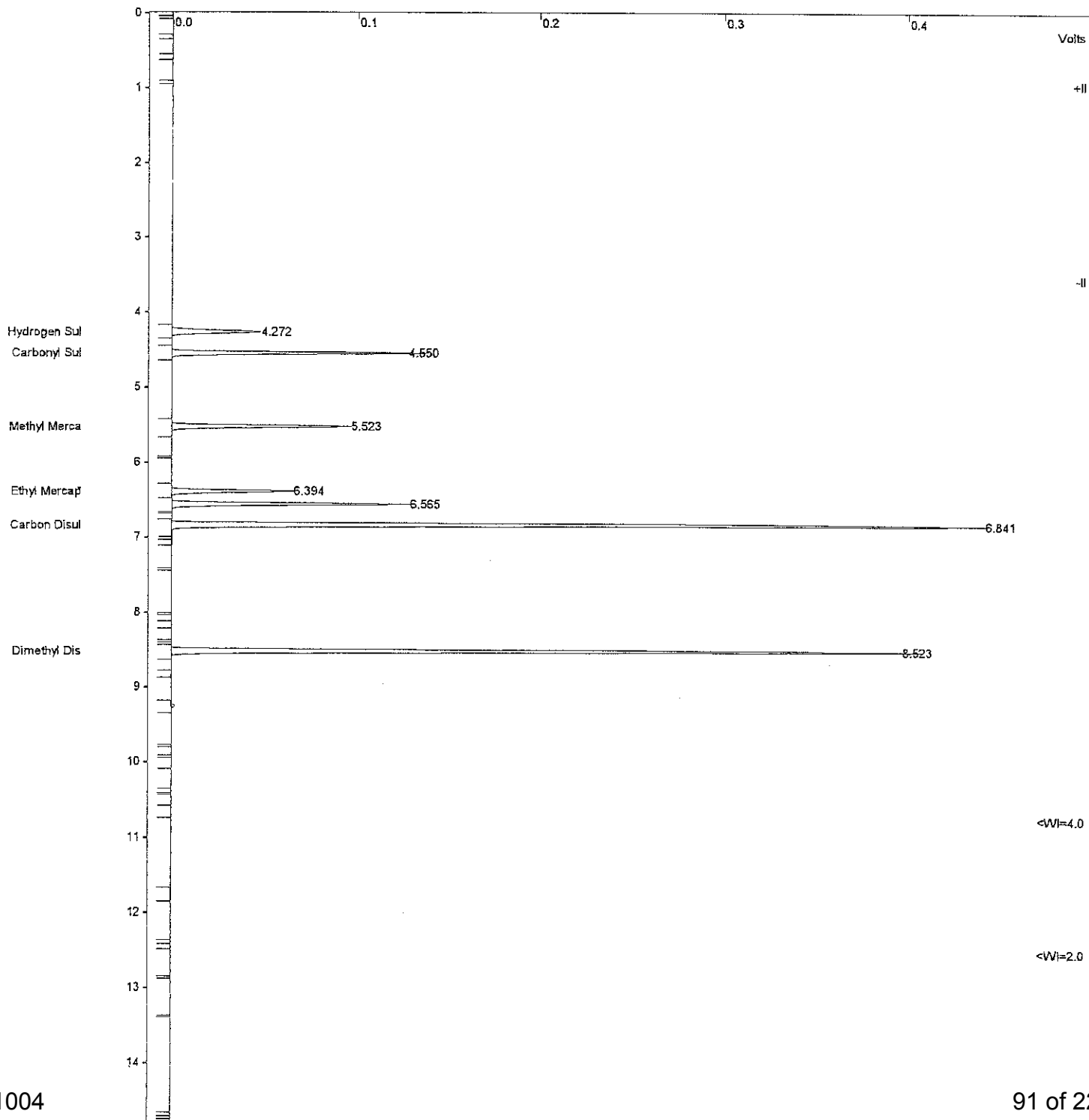
Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun018.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : Sulfur CCV

Injection Date: 6/11/15 8:48 AM Calculation Date: 6/11/15 9:03 AM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.32 cm/min Attenuation = 209 Zero Offset = 2%
Start Time = 0.000 min End Time = 14.987 min Min / Tick = 1.00



Verification Report

Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun018.run
Method File : C:\Star\GC3A\lo_sulfuri20329.mth
Sample ID : Sulfur CCV

Injection Date: 6/11/15 8:48 AM Calculation Date: 6/11/15 9:03 AM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Square Root of Peak Height
Calculation Type: External Standard
Level : 6
Tolerance : 25.0%

Table with 9 columns: Peak No., Peak Name, Expected Result (ppmv), Calculated Result (ppmv), Dev. %, Ret. Time (min), Time Offset (min), Sq. Root Height (counts), Status Codes. Contains 7 rows of peak data and a Totals row.

Status Codes:
V - Out of verification tolerance
C - Out of calibration range

Total Unidentified Counts : 160 counts

Detected Peaks: 33 Rejected Peaks: 0 Identified Peaks: 7

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -83 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - fixed value
Noise (monitored before this run): 24 microVolts

Manual injection

Calib. out of range; No Recovery Action Specified
Verification Failure; No Recovery Action Specified

Original Notes:

5. Method Blank

a. Chromatograms/ Results

Method Blank Criteria:

All compounds < Reporting Limit

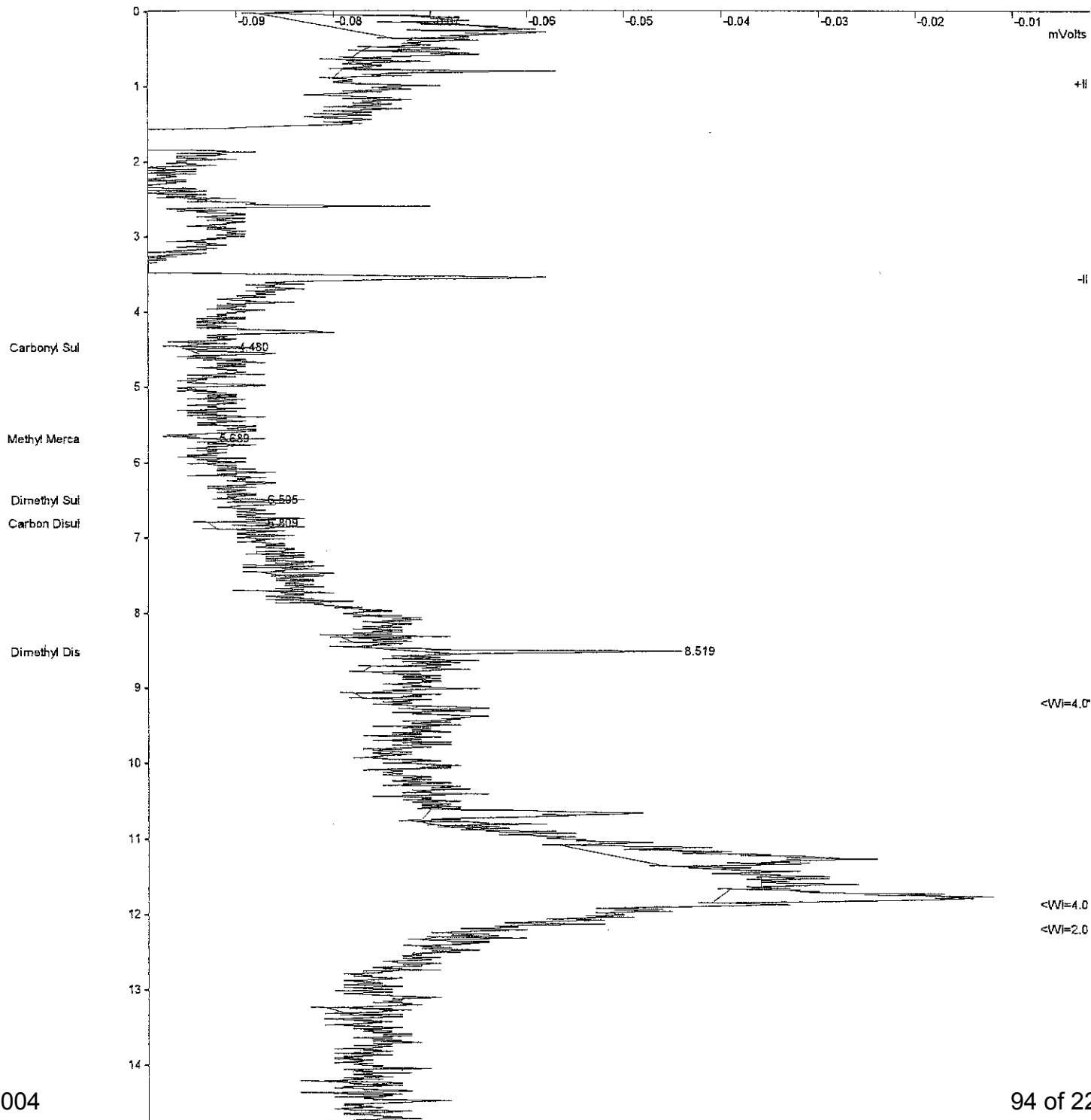
Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun009.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : Method Blank

Injection Date: 6/10/15 2:11 PM Calculation Date: 6/10/15 2:26 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.32 cm/min Attenuation = 1 Zero Offset = 4%
Start Time = 0.000 min End Time = 14.987 min Min / Tick = 1.00



Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun009.run
Method File : C:\Star\GC3A\lo_sulfur120329.mth
Sample ID : Method Blank

Injection Date: 6/10/15 2:11 PM Calculation Date: 6/10/15 2:26 PM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Square Root of Peak Height
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (ppmv), Ret. Time (min), Time Offset (min), Sq. Root Height (counts), Sep. Code, Width 1/2 (sec), Status Codes. Contains 7 rows of peak data and a Totals row.

Status Codes:
M - Missing peak

Total Unidentified Counts : 153 counts

Detected Peaks: 51 Rejected Peaks: 0 Identified Peaks: 7

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -80 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - fixed value
Noise (monitored before this run): 22 microVolts

Manual injection

Original Notes:

6. LCS/LCSD

a. Chromatograms/Results

Criteria as listed on report

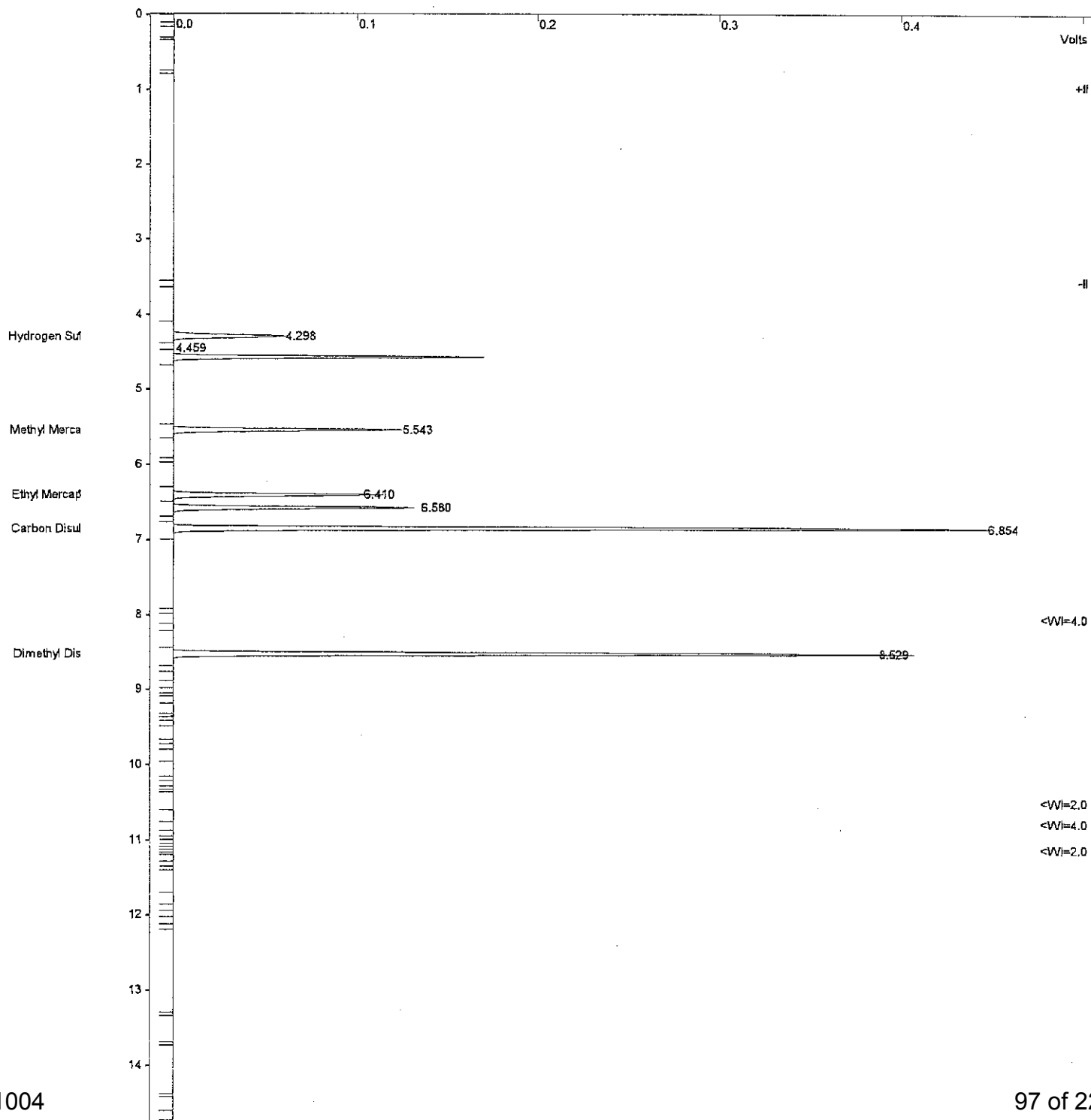
Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun016.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : Sulfur LCS

Injection Date: 6/11/15 8:04 AM Calculation Date: 6/11/15 8:19 AM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.32 cm/min Attenuation = 212 Zero Offset = 2%
Start Time = 0.000 min End Time = 14.987 min Min / Tick = 1.00



Verification Report

Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun016.run
Method File : C:\Star\GC3A\log\sulfur120329.mth
Sample ID : Sulfur LCS

Injection Date: 6/11/15 8:04 AM Calculation Date: 6/11/15 8:19 AM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Square Root of Peak Height
Calculation Type: External Standard
Level : 6
Tolerance : 25.0%

Table with 9 columns: Peak No., Peak Name, Expected Result (ppmv), Calculated Result (ppmv), Dev. %, Ret. Time (min), Time Offset (min), Sq. Root Height (counts), Status Codes. Contains 7 rows of peak data and a Totals row.

Status Codes:
V - Out of verification tolerance
C - Out of calibration range

Total Unidentified Counts : 567 counts

Detected Peaks: 46 Rejected Peaks: 0 Identified Peaks: 7

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -59 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - fixed value
Noise (monitored before this run): 19 microVolts

Manual injection

Calib. out of range; No Recovery Action Specified
Verification Failure; No Recovery Action Specified

Original Notes:

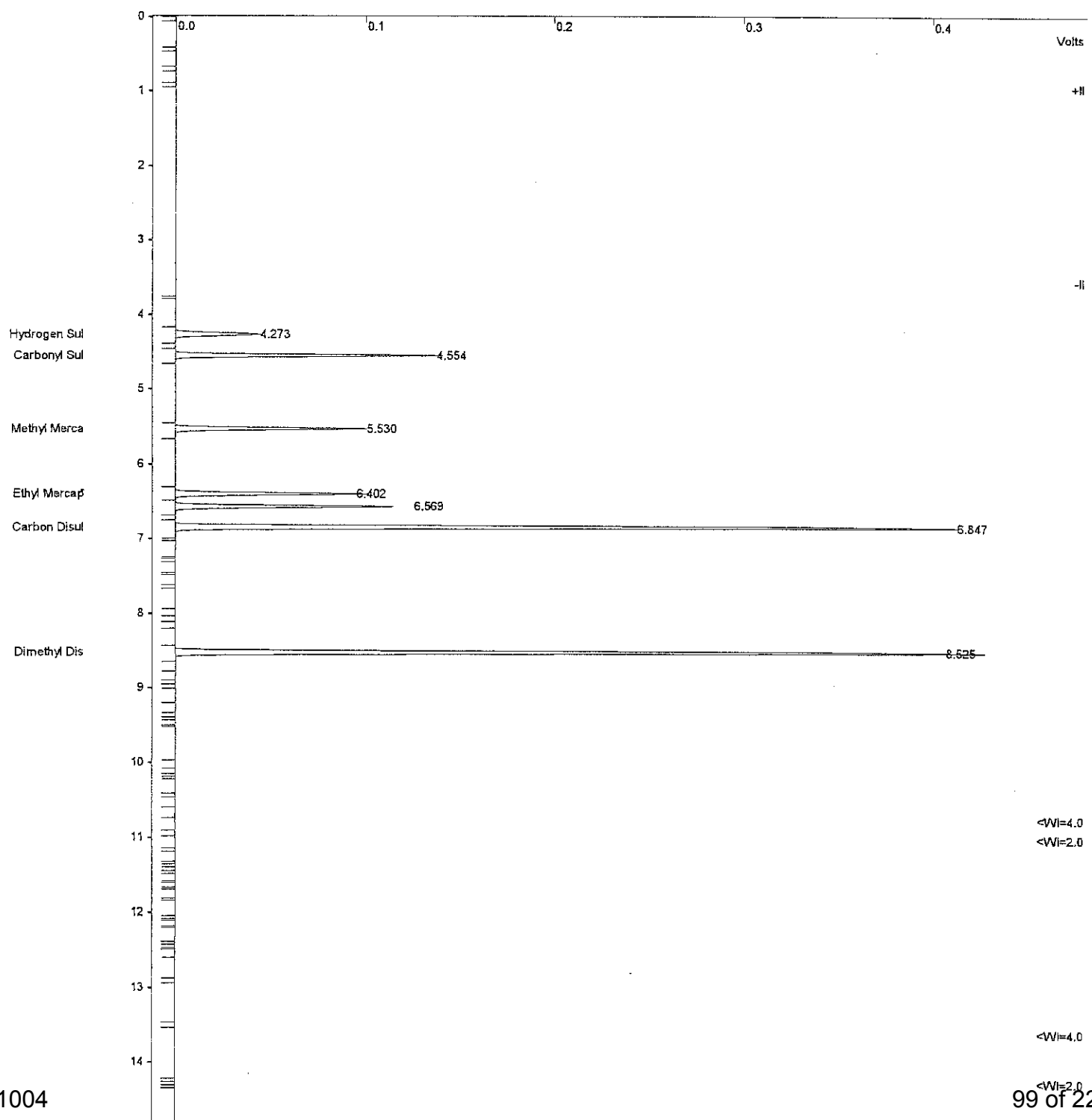
Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun017.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : Sulfur LCSD

Injection Date: 6/11/15 8:26 AM Calculation Date: 6/11/15 8:41 AM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.32 cm/min Attenuation = 202 Zero Offset = 2%
Start Time = 0.000 min End Time = 14.987 min Min / Tick = 1.00



Verification Report

Title : High Level Sulfur
Run File : c:\star\data\2015\jun\10jun017.run
Method File : C:\Star\GC3A\lo sulfur120329.mth
Sample ID : Sulfur LCSD

Injection Date: 6/11/15 8:26 AM Calculation Date: 6/11/15 8:41 AM

Operator : VM Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 46
Instrument : GC_3A Sample Rate : 10.00 Hz
Channel : Rear = PFPD Run Time : 14.987 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Square Root of Peak Height
Calculation Type: External Standard
Level : 6
Tolerance : 25.0%

Table with 8 columns: Peak No., Peak Name, Expected Result (ppmv), Calculated Result (ppmv), Dev. %, Ret. Time (min), Time Offset (min), Sq. Root Height (counts), Status Codes. Contains 7 rows of peak data and a Totals row.

Status Codes:
V - Out of verification tolerance
C - Out of calibration range

Total Unidentified Counts : 163 counts

Detected Peaks: 49 Rejected Peaks: 0 Identified Peaks: 7

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -77 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - fixed value
Noise (monitored before this run): 15 microVolts

Manual injection

Calib. out of range; No Recovery Action Specified
Verification Failure; No Recovery Action Specified

Original Notes:

GC Raw Data Index

General Information

Method: EPA 250/30

Lab Project No.: G061004

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2. Sample Raw Data	<u>110</u>
3. Initial Calibration	<u>185</u>
4. Continuing Calibration	<u>193</u>
5. Method Blank	<u>218</u>
6. LCS/LCSD	<u>na</u>

Conventions and Conversions

1 ppbv = 0.001 ppmv = 0.0000001% v/v
1% v/v = 10,000 ppmv = 10,000,000 ppbv

1 ug/m³ = 1 ng/L = ppbv x MW/24.45
1 ug/L = 1 mg/m³ = ppmv x MW/24.45

Where **MW** is the molecular weight of the compound
and 24.45 is the molar volume of ideal gas at
1 atmosphere and 25° C.

1 atmosphere = 14.6 psia = 0 psig
30" Hg = 0 psia = -14.6 psig

Standard pressure is taken as 14.6 psia at Air Technology Labs' facility.

1. Supporting Documents

- a. Pressurization log (if applicable)
- b. ICAL run log
- c. CCAL/QC/Samples run log
- d. Miscellaneous documents

Instrument ID: GC 8A
 Analytical Method: nmoc fixed-140106, nmoc fixed-140710 1cal
 Datafile Directory: GC8A\2014\Jul

GC Injection Logbook

Chemist: AS
 Blank Lot #: 1208FS462SA

Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
7/8/14	1426	08Jul017	300ppmVand	AS014304	STD 10µl	-	-	1.0	3	ok		140708618A1
7/10/14	1120	10jul	TCD L1 H ₂ O ₂ N ₂	AW1202715	STP 10µl				3	No	wrong line	1407106C8A1
	1135	10jul001	TCD L1 H ₂ O ₂ N ₂	AW1202715					1	ok	1% H ₂ 1.56% N ₂ 0.49% O ₂	
	1152	002	L2 O ₂ N ₂	AW1202717	10µl				1		7.81% N ₂ 2.19% O ₂	
	1206	003	L2 CH ₄ CO ₂ H ₂	AW1202718					2		5% CH ₄ CO ₂ H ₂	
	1221	004	L3 O ₂ N ₂	AW1202716					1		10.9% O ₂ 39.1% N ₂	
	1234	005	L3 CH ₄ CO ₂ H ₂	AW1202801					2		7% H ₂ 25% CH ₄ CO ₂	
	1250	006	L4 O ₂ N ₂	-					3		21.9% O ₂ 78.1% N ₂	
	1305	007	L4 H ₂	AW1202803					1		10% H ₂	
	1319	008	L4 CO ₂ CH ₄	AW1202804					2		50% CH ₄ CO ₂	
	1334	009	L5 N ₂	1560188					4		100% N ₂	
	1348	010	L5 CH ₄	AS014313					5		100% CH ₄	
	1403	011	L5 CO ₂	AS014312					6		100% CO ₂	
	1418	012	L5 H ₂	AW1202805					1		25% H ₂	
	1438	013	L2 O ₂ N ₂	AW1202806					1	No	False start	
	1527	014	L1 O ₂ N ₂	AW1202804					2	ok		
	1555	015	10% CH ₄ CO ₂ CO	AS014320					3	ok	1% CH ₄ CO ₂ CO (L6)	
	1611	016	0.5% CH ₄ CO ₂ CO	AW1202807					2		0.5% (L5)	
	1625	017	0.1% CH ₄ CO ₂ CO	AW1202808					3		0.1% (L4)	
	1640	018	0.01% CH ₄ CO ₂ CO	AW1202809					4		0.01% (L3)	

Instrument ID: GC 8A
 Analytical Method: nmoc fixed - 140710 icol
 Datafile Directory: GC8A\2014\jul

GC Injection Logbook

Chemist: AS
 Blank Lot #: 1205FS462SA

Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
7/10/14	1655	10jul019	0.001% CH ₄ CO ₂	AW1202810	STB loop	-	-	1.0	5	No	not used in loop 0.001% CH ₄ CO ₂ CO	140710GC8A1
↓	1709	020	TCD L1 CH ₄ CO ₂	AW1202811					7	OK	0.5% CH ₄ 0.5% CO ₂	
7/11/14	1302	021	Blank	-					7	OK		
	1338	022	0.0001% CH ₄ CO ₂	AW1202812					7	OK	0.0001% CH ₄ CO ₂ CO	
	1404	023	0.001% CH ₄ CO ₂	AW1202813					7	↓	0.0010% (U)	
	1428	024	TCD CH ₄ ICV 1%	AW1202814					7	No	not connected	
	1444	025	TCD CH ₄ ICV 1%	AS014319 AW1202814					7	OK		
	1459	026	FID CO ₂ ICV 0.1%	AW1202815					7	↓		
↓	1513	↓ 027	ICV LCS+H ₂ MIX	AW1202816					7	↓		
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Instrument ID:

GC 8A

GC Injection Logbook

Analytical Method:

nmoc fixed - 150105 (local)

Chemist: AS

Datafile Directory:

GC8A\2015\Jan

Blank Lot #: 2549F546A5A

Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
11/5/15	0846	05.Jan	30ppmv nmoc	AW120654	SFD Loop	-	-	1.0	1	No		150105 GC8A1
	0901	05.Jan001								OK	NR #	
	0915	002								OK		
	0930	003								OK		
	0947	004								OK		
	1005	005	300ppmv nmoc	AW120657						OK		
	1020	006								OK		
	1035	007								OK		
	1053	008	3000ppmv nmoc	AW120658						OK		
	1108	009								OK		
	1122	010								OK		
	1140	011	ppmv nmoc	AW120659						OK		
	1155	012								OK		
	1209	013								OK		
	1229	014	100 300ppmv nmoc	AS24413					2	OK		

Approved by/Date: _____

G061001

Instrument ID: GC 8A
 Analytical Method: mmoc/ixed-150105
 Datafile Directory: C:\8A\12015\Jun

GC Injection Logbook

Chemist: AS
 Blank Lot #: B505E54625A

Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
6/9/15	2057	09Jun050	G052903-16	SCS	STD Loop	see log	-	1.0	16	ok		150609GC8A
	2112	051										
	2127	052										
	2141	053										
	2156	054	G052903-17						9	ok		
	2210	055										
	2226	056										
	2240	057										
	2255	058	O2, N2 COU	-		-			6	ok		150610GC8A
	2309	059	0.1% CH ₄ CO ₂ CO	AW120909					1			
	2324	060	25% CH ₄ CO ₂ 76% H ₂	AW120910					2			
	2338	061	300 ppm NMAC	AW120913					3			
	2353	062										
6/10/15	0008	063										
	0022	064										
	0037	065	LCS + Hz	AW120912					4	ok		
	0051	066	LCS + Hz									
	0106	067	CO LCS	AW120913					5	ok		
	0121	068	CO LCS									
	0808	102Jun	Method Blank	-					7	No ok		

106 of 222

Instrument ID:

GC 8A

GC Injection Logbook

Analytical Method:

nmoc fixed - 150105

Chemist: AS

Datafile Directory:

GC8A\2015\Jun

Blank Lot #:

3505FS4605A

Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
6/10/15	0822	10Jun001	Method Blank	-	STD loop	-	-	1.0	7	OK		150610GC8A1
	0838	002	G060405-04	CH2M		see loop		2.022	7	OK		
	0853	003	↓					↓	↓	↓		
	0911	004	G060405-03					2.022	7	OK		
	0925	005	↓					↓	↓	↓		
	0943	006	G060405-02					2.023	7	No	nmoc %R	
	0957	007	↓					↓	↓	↓		
	1013	008	↓				400/100	8.252		OK		
	1027	009	↓				↓	↓	↓	↓		
	1045	010	G060405-01				1000/100	21.020	7	No	nmoc %R	
	1103	011	↓				800/20	84.24		OK		
	1118	012	↓				↓	↓	↓	↓		
	1135	013	↓				-	2.106	8	OK		
	1151	014	↓				-	↓	↓	↓		
	1233	015	G061004-01	CH2M		-	-	1.0	6	OK	NR nmoc %R	
	1247	016	↓					↓	↓	↓		
	1302	017	↓					↓	↓	↓		
	1316	018	↓					↓	↓	↓		
	1332	019	↓					↓	↓	↓		
	1348	020	↓					↓	↓	OK		

Instrument ID: GC 8A
 Analytical Method: nmoc fixed-ISOLOS
 Datafile Directory: GC8A\2015\Jun

GC Injection Logbook

Chemist: AS
 Blank Lot #: 3505FS462KA

Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
6/10/15	1405	10Jun021	G061004-01	CH2M	STP _{app}	-	-	1.0	6	ok		150610GC8A
	1422	022	G061004-02						6	ok		
	1436	023										
	1451	024										
	1507	025	G061004-03						6	ok		
	1522	026										
	1537	027										
	1552	028										
	1608	029	G061004-04						9	ok		
	1623	030										
	1637	031										
	1652	032										
	1707	033	G061004-05						6	ok		
	1721	034										
	1736	035										
	1750	036										
	1805	037	G061004-06						10	ok		
	1819	038										
	1834	039										
	1849	040										

Instrument ID: GC 8A
Analytical Method: nmoc fixed - 150165
Datafile Directory: GC8A\2015\Jun

GC Injection Logbook

Chemist: AS
Blank Lot #: 3505FS4625A

Date	Time	Data File	Lab Number/ Standard Type	Client/ Std Code	Sample Volume	Press. Dilution	Sample dilution	DF	Line #	Status	Comments	QC Batch
6/10/15	1903	10 Jun 041	G061004-06	CH2M	STD Loop	-	-	1.0	10	d		150610GC8A
	1918	042	O2 N2 CO	-					16	d		1506116GC8A
	1932	043	0.1% CH4 CO	A1120909					1			
	1949	044	2.5% Ethy CO 7% H	A1120910					2			
	1002	045	300ppm nmoc	A1201113					3			
	2016	046										
	2031	047										

2. Sample Raw Data

- a. Calculations (if applicable)
- b. Chromatograms/Results

CALCULATIONS

Variable	G061004-01 ✓	G061004-02 ✓	G061004-03 ✓
Moisture content, fraction	B _w	0.03123	0.03123
Calculated NMOC concentration, ppmv C	C _t	-82.0	-94.6
Uncorr NMOC concentration, ppmv C	C _t	4.8	4.8
Calculated N2 concentration, fraction	C _{N2}	0.80910 ✓	0.80330 ✓
Measured N2 concentration, fraction		0.79106	0.78839
Calculated O2 concentration, fraction		0.22569 ✓	0.22403 ✓
Measured O2 concentration, fraction		0.22066	0.21904
measured NMOC concentration, ppmv C	C _{tm1}	5.2	4.6
measured NMOC concentration, ppmv C	C _{tm2}	4.4	4.0
measured NMOC concentration, ppmv C	C _{tm3}	4.9	5.9
barometric pressure, mm Hg	P _b	762.0	762.0
gas sample tank pressure before sampling, mm Hg	P _{ti}	0.00	0.00
gas sample tank pressure at completion of sampling, mm Hg	P _t	761.98	761.98
final gas sample tank pressure after pressurization, mm Hg	P _{tf}	755.01	755.01
vapor pressure of H2O, mm Hg	P _w	23.8	23.8
sample tank temperature before sampling, oK	T _{ti}	297.0	297.0
sample tank temperature at completion of sampling, oK	T _t	297.0	297.0
sample tank temperature after pressurization, oK	T _{tf}	297.0	297.0
Sample tank temperature in field, oC		25.0	25.0
total number of analyzer injections	r	3	3
barometric pressure, inches Hg		30	30
sample temp in field before sampling, oF		75	75
sample temp in field after sampling, oF		75	75
Sample pressure prior to sampling, inches Hg		-30	-30
Sample pressure after sampling, inches Hg		0	0
Sample pressure after pressurization, psia		14.6	14.6
Sample temp after pressurization, oF		75	75

	RL	SAMPLE1	SAMPLE2	SAMPLE3
NMOC RUN1	10	5.2 ✓	4.6 ✓	2.2 ✓
NMOC RUN2	10	4.4 ✓	4.0 ✓	2.6 ✓
NMOC RUN3	10	4.9 ✓	5.9 ✓	4.3 ✓
NMOC DATAFILE1		10jun019 ✓	10jun022 ✓	10jun026 ✓
NMOC DATAFILE2		10jun020	10jun023	10jun027
NMOC DATAFILE3		10jun021	10jun024	10jun028
NMOC TIME/DATE1		13:32 / 06/10/15	14:22 / 06/10/15	15:22 / 06/10/15
NMOC TIME/DATE2		13:48 / 06/10/15	14:36 / 06/10/15	15:37 / 06/10/15
NMOC TIME/DATE3		14:05 / 06/10/15	14:51 / 06/10/15	15:52 / 06/10/15
RESULT RSD		7.77 ✓	20.07 ✓	36.86 ✓
NITROGEN RUN1		79.658 ✓	78.367 ✓	78.856 ✓
NITROGEN RUN2		78.554 ✓	78.711 ✓	78.842 ✓
OXYGEN RUN1		22.211 ✓	21.873 ✓	21.983 ✓
OXYGEN RUN2		21.921 ✓	21.935 ✓	21.974 ✓
3C DATAFILE1		10jun020	10jun022	10jun027
3C DATAFILE2		10jun021	10jun023	10jun028
3C TIME/DATE		13:48 / 06/10/15	14:22 / 06/10/15	15:37 / 06/10/15
3C TIME/DATE		14:05 / 06/10/15	14:36 / 06/10/15	15:52 / 06/10/15
N2 RSD		1.40 ✓	0.44 ✓	0.02 ✓
O2 RSD		1.32 ✓	0.28 ✓	0.04 ✓
CO2 RUN 1		0.04624 ✓	0.04636 ✓	0.04458 ✓
CO2 RUN 2		0.04624 ✓	0.04631 ✓	0.04465 ✓
CH4 RUN 1		0.00020 ✓	0.00020 ✓	0.00019 ✓
CH4 RUN 2		0.00020 ✓	0.00020 ✓	0.00019 ✓
CO2 RSD		0.01514 ✓	0.00021 ✓	0.14570 ✓
CH4 RSD		3.49127 ✓	0.00000 ✓	0.51948 ✓
MEASURED CO2		0.04624 ✓	0.04634 ✓	0.04461 ✓
CALCULATED CO2		0.04729 ✓	0.04739 ✓	0.04563 ✓
MEASURED CH4		0.00020 ✓	0.00020 ✓	0.00019 ✓
CALCULATED CH4		0.00021 ✓	0.00021 ✓	0.00020 ✓

$$C_t = \frac{\frac{P_f}{T_f}}{\frac{P_t}{T_t} - \frac{P_{ti}}{T_{ti}}} \cdot \frac{1}{(1 - B_w - 99/78 * C_{N2})^r} \sum_{j=1}^r C_{tm(j)}$$

$$B_w = \frac{P_w}{P_b}$$

Template revision 100625

CALCULATIONS

Variable	G061004-04 ✓	G061004-05 ✓	G061004-06 ✓	
Moisture content, fraction	B _w	0.03123	0.03123	0.03123
Calculated NMOC concentration, ppmv C	C _i	-89.9	-64.3	-41.8
Uncorr NMOC concentration, ppmv C	C _i	4.3	3.4	2.2
Calculated N2 concentration, fraction	C _{N2}	0.80059 ✓	0.80507 ✓	0.80538 ✓
Measured N2 concentration, fraction		0.78274	0.78712	0.78742
Calculated O2 concentration, fraction		0.22274 ✓	0.22429 ✓	0.22440 ✓
Measured O2 concentration, fraction		0.21778	0.21929	0.21940
measured NMOC concentration, ppmv C	C _{in1}	5.6	3.9	2.3
measured NMOC concentration, ppmv C	C _{in2}	2.0	2.6	2.1
measured NMOC concentration, ppmv C	C _{in3}	5.3	3.8	2.3
barometric pressure, mm Hg	P _b	762.0	762.0	762.0
gas sample tank pressure before sampling, mm Hg	P _{ti}	0.00	0.00	0.00
gas sample tank pressure at completion of sampling, mm Hg	P _t	761.98	761.98	761.98
final gas sample tank pressure after pressurization, mm Hg	P _{tf}	755.01	755.01	755.01
vapor pressure of H2O, mm Hg	P _w	23.8	23.8	23.8
sample tank temperature before sampling, oK	T _{ti}	297.0	297.0	297.0
sample tank temperature at completion of sampling, oK	T _t	297.0	297.0	297.0
sample tank temperature after pressurization, oK	T _{tf}	297.0	297.0	297.0
Sample tank temperature in field, oC		25.0	25.0	25.0
total number of analyzer injections	r	3	3	3
barometric pressure, inches Hg		30	30	30
sample temp in field before sampling, oF		75	75	75
sample temp in field after sampling, oF		75	75	75
Sample pressure prior to sampling, inches Hg		-30	-30	-30
Sample pressure after sampling, inches Hg		0	0	0
Sample pressure after pressurization, psia		14.6	14.6	14.6
Sample temp after pressurization, oF		75	75	75
RL		SAMPLE1 ✓	SAMPLE2 ✓	SAMPLE3 ✓
NMOC RUN1	10	5.6	3.9	2.3
NMOC RUN2	10	2.0	2.6	2.1
NMOC RUN3	10	5.3	3.8	2.3
NMOC DATAFILE1		10jun030 ✓	10jun034 ✓	10jun038 ✓
NMOC DATAFILE2		10jun031 ✓	10jun035 ✓	10jun039 ✓
NMOC DATAFILE3		10jun032 ✓	10jun036 ✓	10jun040 ✓
NMOC TIME/DATE1	16:23 ✓	06/10/15 ✓	17:21 ✓ 06/10/15 ✓	18:19 ✓ 06/10/15 ✓
NMOC TIME/DATE2	16:37	06/10/15	17:36 06/10/15	18:34 06/10/15
NMOC TIME/DATE3	16:52	06/10/15	17:50 06/10/15	18:49 06/10/15
RESULT RSD		46.46 ✓	20.44 ✓	6.10 ✓
NITROGEN RUN1		78.991 ✓	78.800 ✓	78.769 ✓
NITROGEN RUN2		77.558 ✓	78.624 ✓	78.716 ✓
OXYGEN RUN1		21.917 ✓	21.946 ✓	21.951 ✓
OXYGEN RUN2		21.638 ✓	21.912 ✓	21.929 ✓
3C DATAFILE1		10jun031 ✓	10jun035 ✓	10jun038 ✓
3C DATAFILE2		10jun032 ✓	10jun036 ✓	10jun039 ✓
3C TIME/DATE	16:37 ✓	06/10/15 ✓	17:36 ✓ 06/10/15 ✓	18:19 ✓ 06/10/15 ✓
3C TIME/DATE	16:52	06/10/15	17:50 06/10/15	18:34 06/10/15
N2 RSD		1.83 ✓	0.22 ✓	0.07 ✓
O2 RSD		1.28 ✓	0.15 ✓	0.10 ✓
CO2 RUN 1		0.04441 ✓	0.04431 ✓	0.04663 ✓
CO2 RUN 2		0.04477 ✓	0.04434 ✓	0.04667 ✓
CH4 RUN 1		0.00034 ✓	0.00020 ✓	0.00041 ✓
CH4 RUN 2		0.00034 ✓	0.00019 ✓	0.00041 ✓
CO2 RSD		0.81629 ✓	0.06317 ✓	0.08360 ✓
CH4 RSD		0.88626 ✓	4.60358 ✓	0.49261 ✓
MEASURED CO2		0.04459 ✓	0.04433 ✓	0.04665 ✓
CALCULATED CO2		0.04561 ✓	0.04534 ✓	0.04771 ✓
MEASURED CH4		0.00034 ✓	0.00020 ✓	0.00041 ✓
CALCULATED CH4		0.00035 ✓	0.00020 ✓	0.00042 ✓

$$C_i = \frac{\frac{P_{tf}}{T_{tf}}}{\frac{P_t}{T_t} - \frac{P_{ti}}{T_{ti}}} \cdot \frac{1}{(1 - B_w - 99/78 * C_{N2})^r} \sum_{j=1}^r C_{im(j)}$$

$$B_w = \frac{P_w}{P_b}$$

Template revision 100625

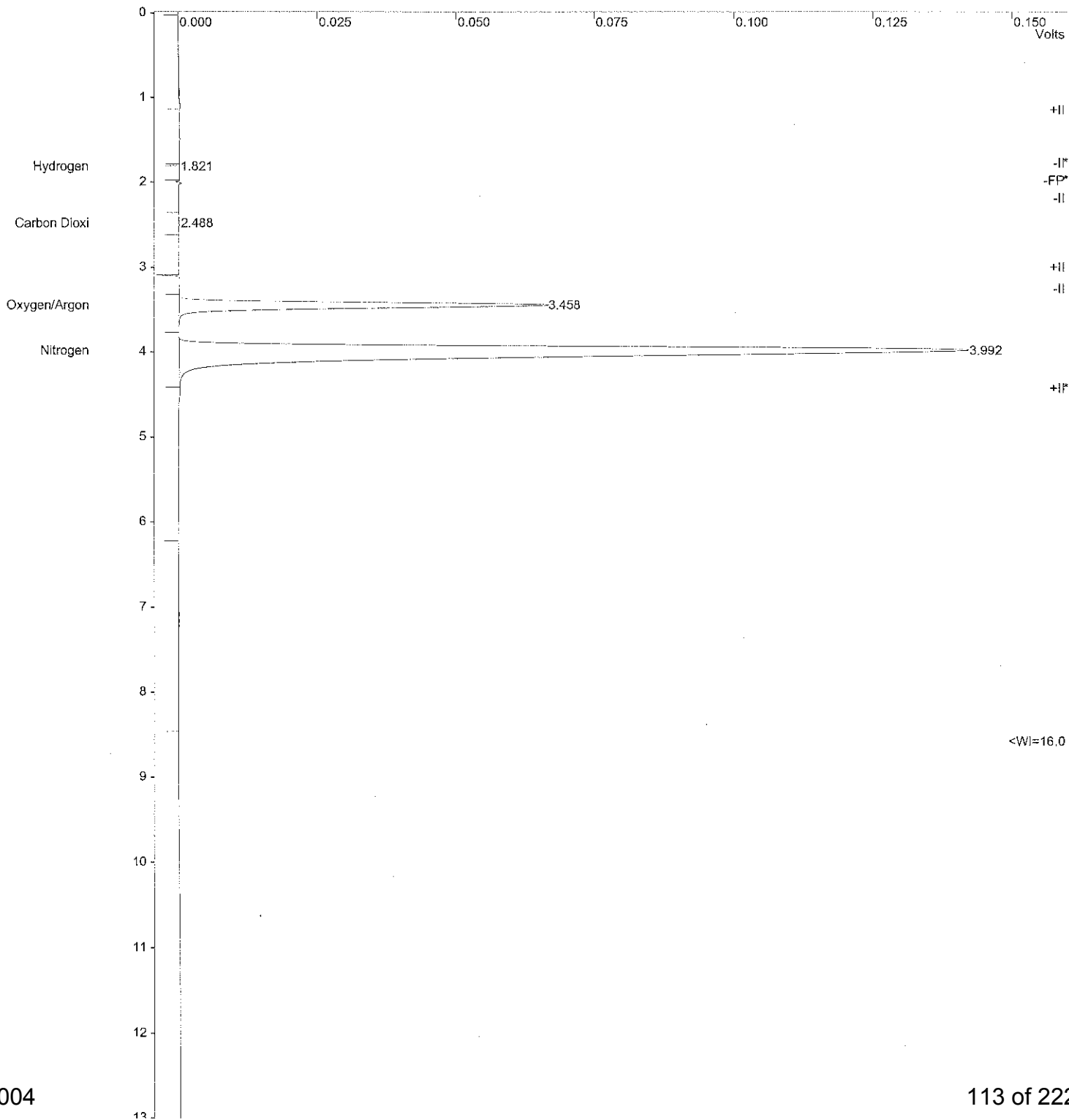
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun019.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-01 CH2M

Injection Date: 6/10/2015 13:32 Calculation Date: 6/10/2015 13:45

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 67 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun019.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-01 CH2M

Injection Date: 6/10/2015 13:32 Calculation Date: 6/10/2015 13:45

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
M - Missing peak
C - Out of calibration range

Total Unidentified Counts : 6209 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 3 microVolts - monitored before this run

Manual injection

Calib. out of range; No Recovery Action Specified

Revision Log:

6/10/2015 13:45: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 13:15:02

Original Notes:

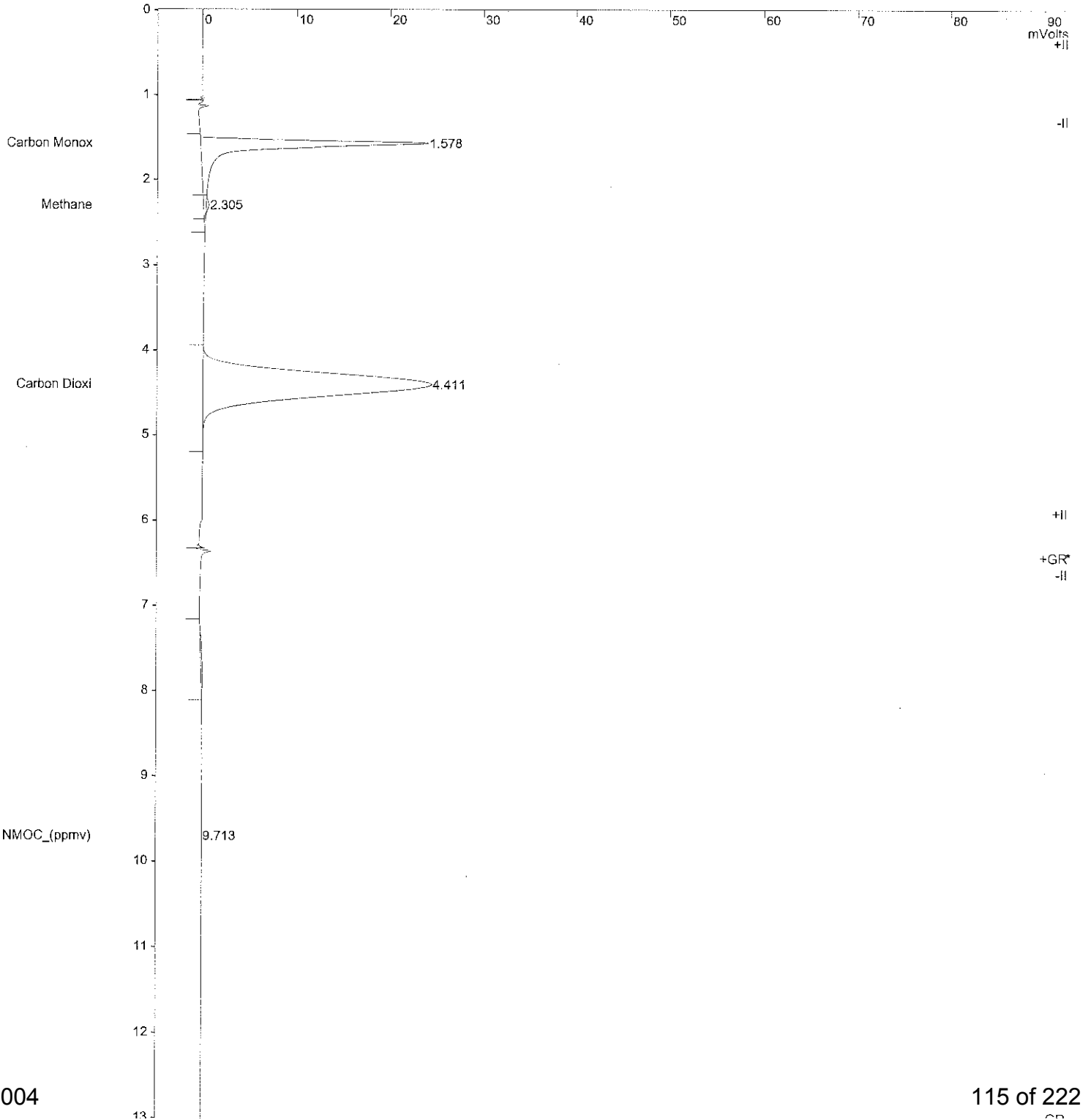
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun019.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-01 CH2M

Injection Date: 6/10/2015 13:32 Calculation Date: 6/10/2015 13:45

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun019.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-01 CH2M

Injection Date: 6/10/2015 13:32 Calculation Date: 6/10/2015 13:45

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, and NMOC_ (ppmv).

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -66 microVolts LSB: 1 microVolts

Noise (used): 25 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 13:45: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 13:15:02

Original Notes:

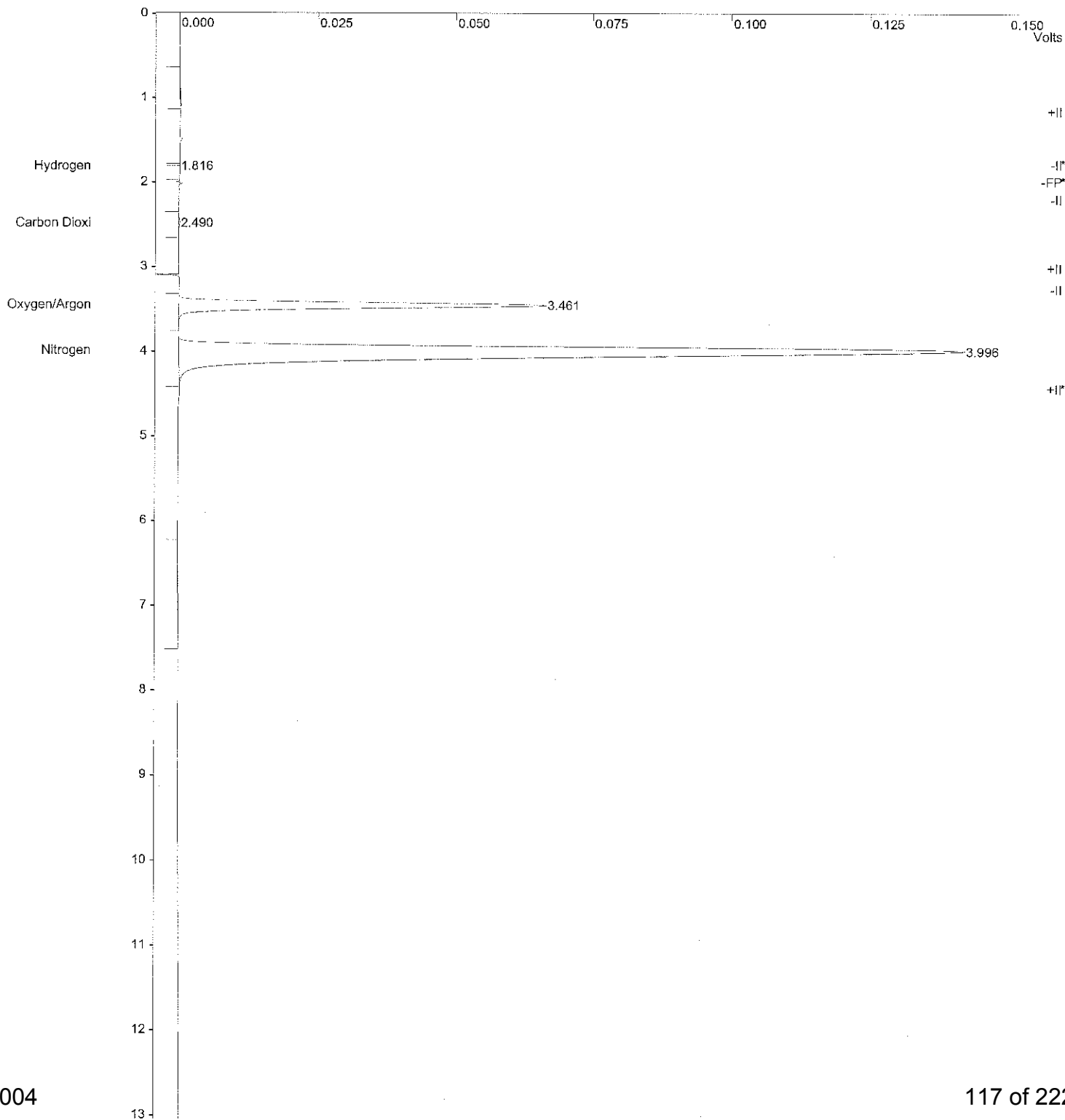
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun020.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-01 CH2M

Injection Date: 6/10/2015 13:48 Calculation Date: 6/10/2015 14:01

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 67 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.087 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun020.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-01 CH2M

Injection Date: 6/10/2015 13:48 Calculation Date: 6/10/2015 14:01

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
M - Missing peak
C - Out of calibration range

Total Unidentified Counts : 2153 counts

Detected Peaks: 7 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 20 microVolts LSB: 1 microVolts

Noise (used): 4 microVolts - monitored before this run

Manual injection

Calib. out of range; No Recovery Action Specified

Revision Log:

6/10/2015 14:01: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 13:31:37

Original Notes:

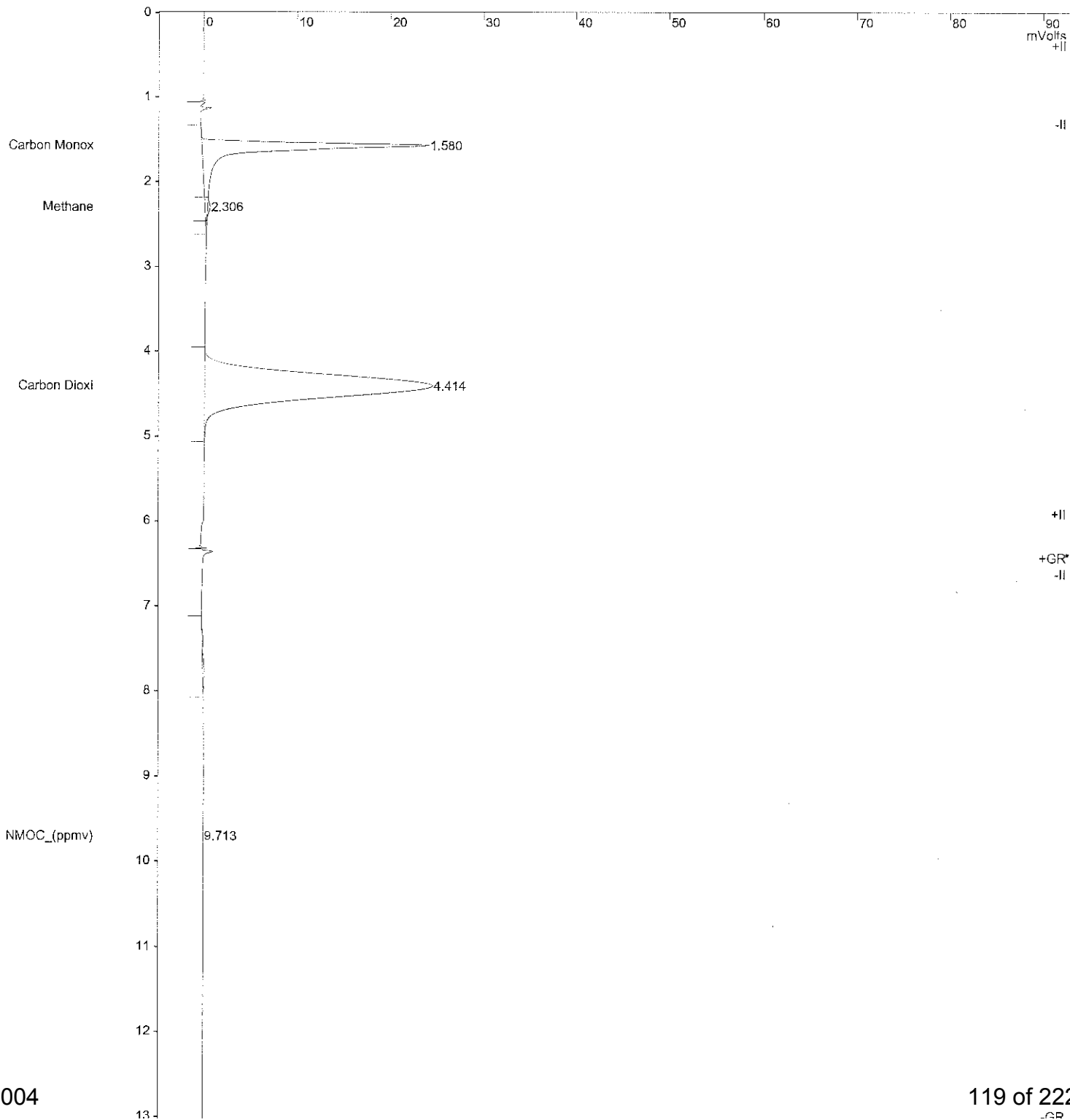
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun020.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-01 CH2M

Injection Date: 6/10/2015 13:48 Calculation Date: 6/10/2015 14:01

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.087 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun020.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-01 CH2M

Injection Date: 6/10/2015 13:48 Calculation Date: 6/10/2015 14:01

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, and NMOC_(ppmv) with their respective values.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -89 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 14:01: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 13:31:37

Original Notes:

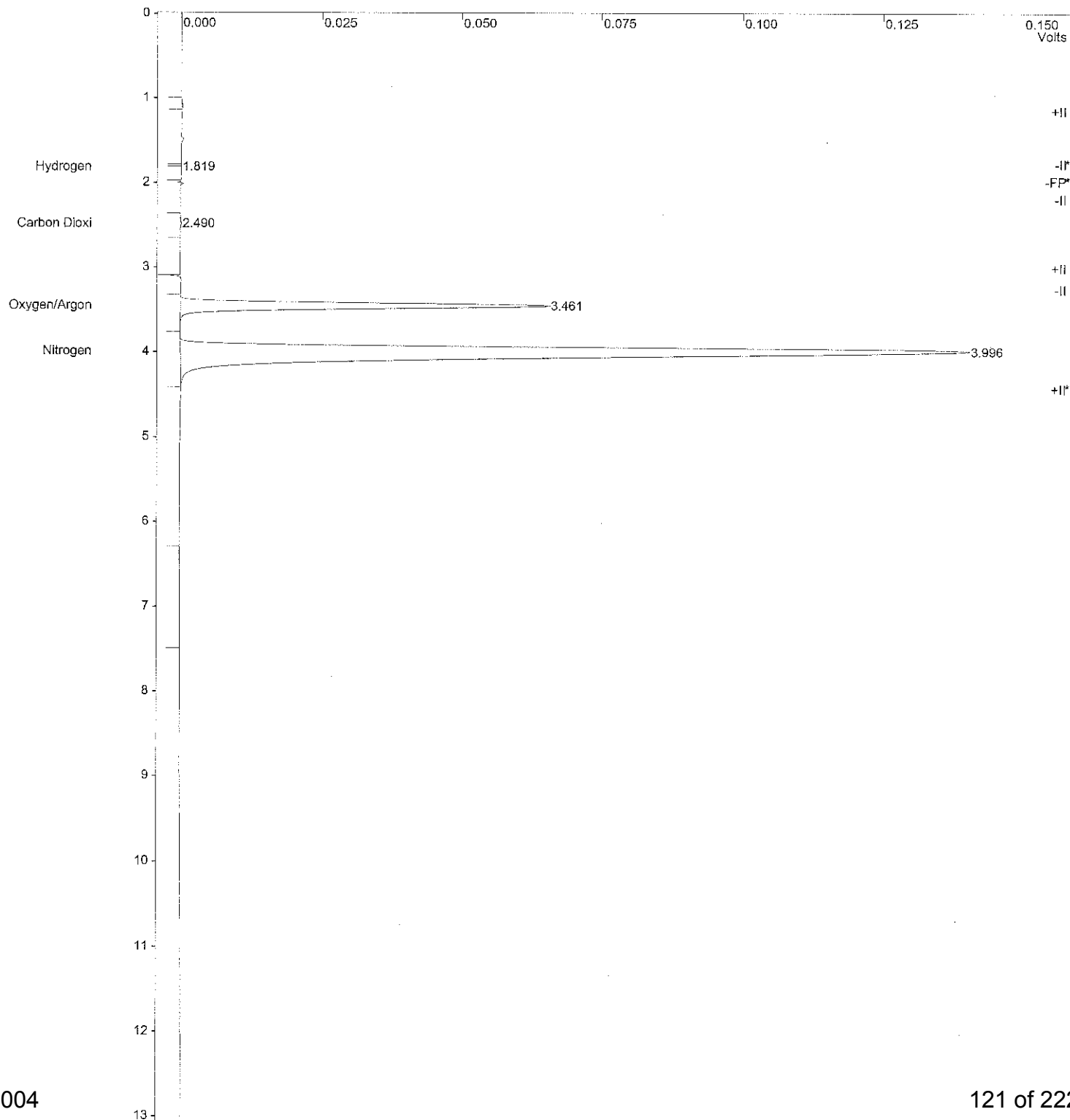
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun021.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-01 CH2M

Injection Date: 6/10/2015 14:05 Calculation Date: 6/10/2015 14:18

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun021.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-01 CH2M

Injection Date: 6/10/2015 14:05 Calculation Date: 6/10/2015 14:18

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and Totals.

Status Codes:
M - Missing peak
C - Out of calibration range

Total Unidentified Counts : 2151 counts

Detected Peaks: 6 Rejected Peaks: 0 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 27 microVolts LSB: 1 microVolts

Noise (used): 5 microVolts - monitored before this run

Manual injection

Calib. out of range; No Recovery Action Specified

Revision Log:

6/10/2015 14:18: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 13:48:21

Original Notes:

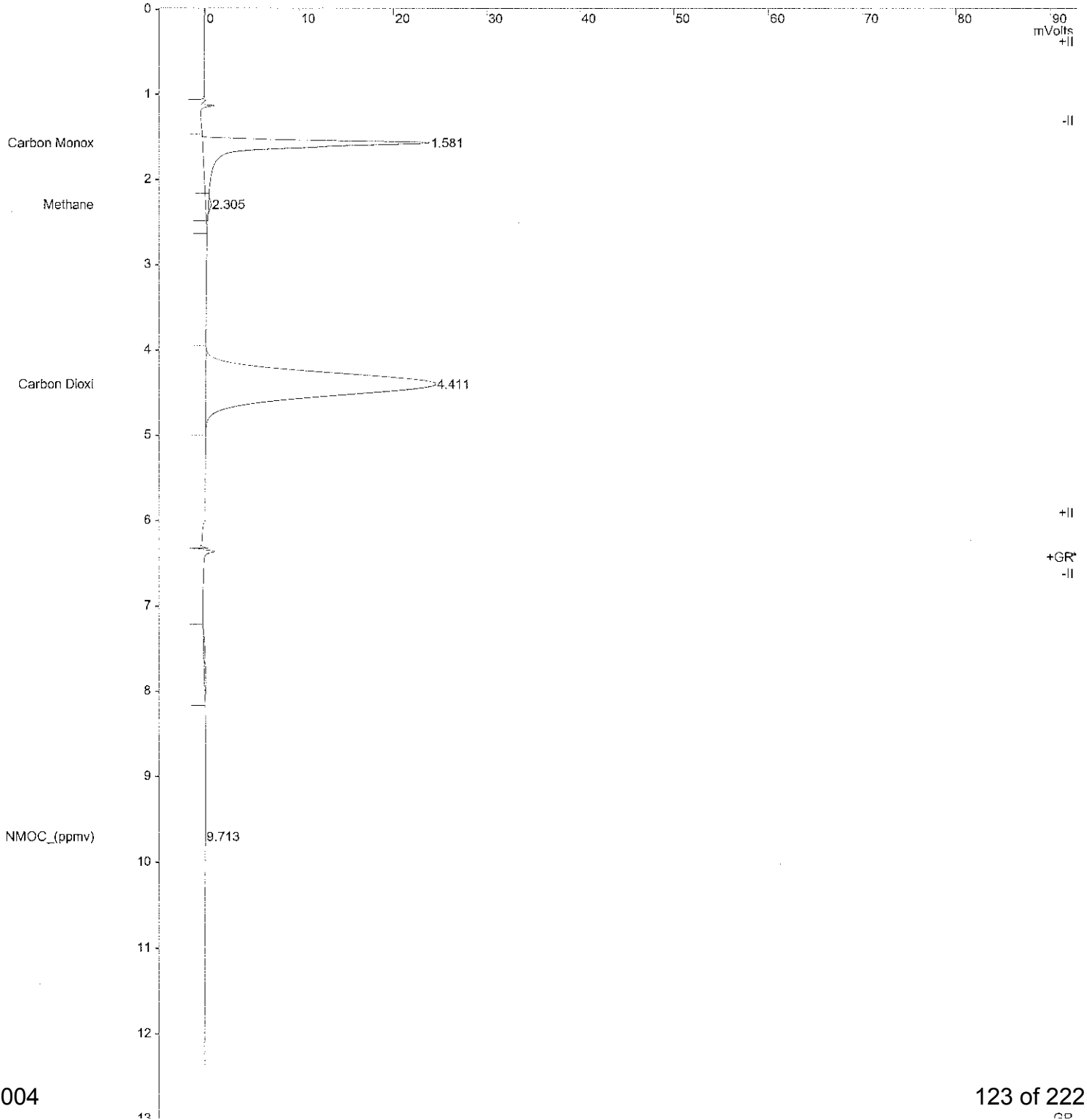
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun021.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-01 CH2M

Injection Date: 6/10/2015 14:05 Calculation Date: 6/10/2015 14:18

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun021.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-01 CH2M

Injection Date: 6/10/2015 14:05 Calculation Date: 6/10/2015 14:18

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30. ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC_(ppmv), and Totals.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -61 microVolts LSB: 1 microVolts

Noise (used): 21 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 14:18: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 13:48:21

Original Notes:

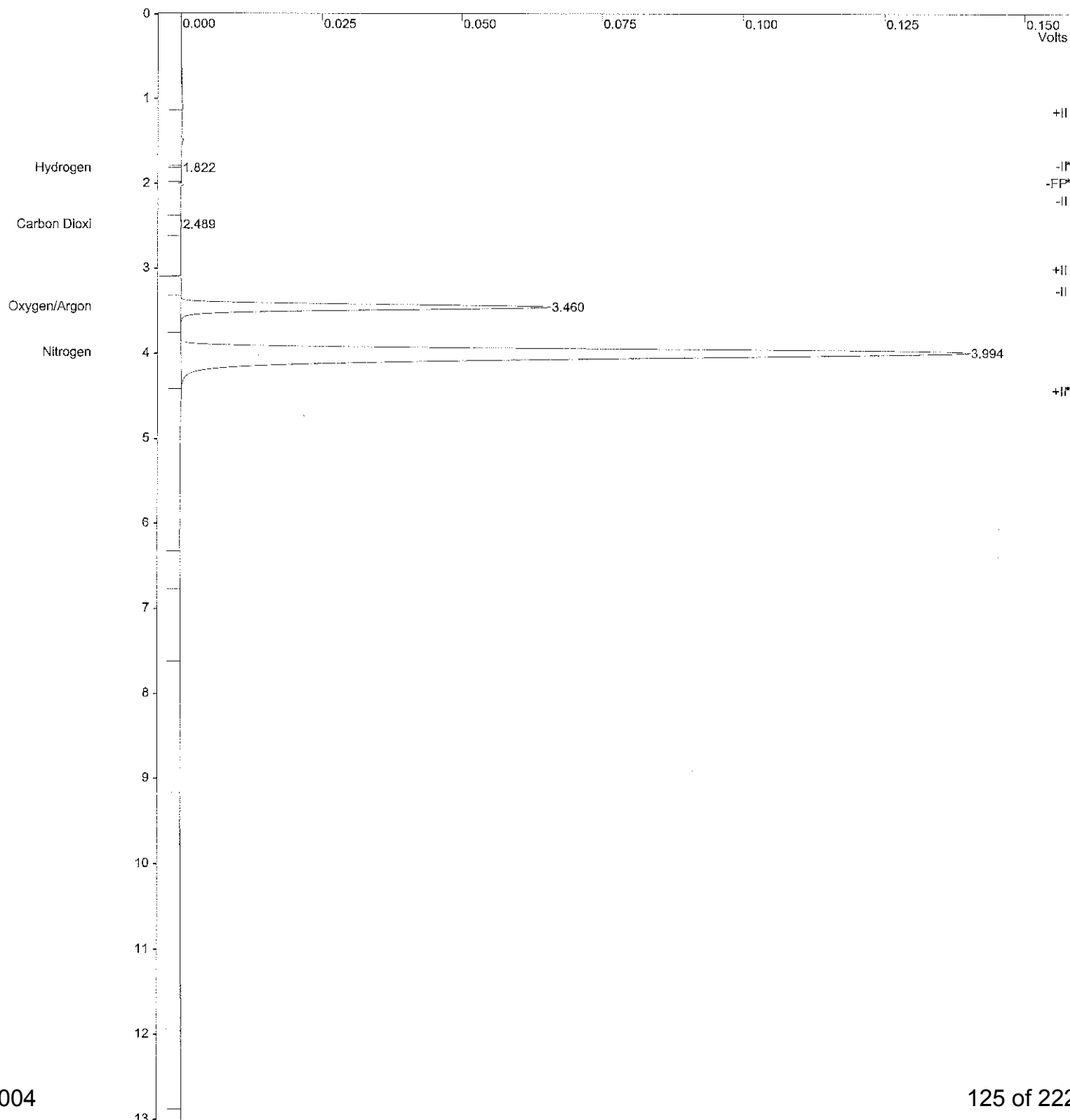
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun022.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-02 CH2M

Injection Date: 6/10/2015 14:22 Calculation Date: 6/10/2015 14:35

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun022.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-02 CH2M

Injection Date: 6/10/2015 14:22 Calculation Date: 6/10/2015 14:35

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
M - Missing peak

Total Unidentified Counts : 9927 counts

Detected Peaks: 8 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 27 microVolts LSB: 1 microVolts

Noise (used): 4 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 14:35: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6 Advance Time: 14:21:21

Original Notes:

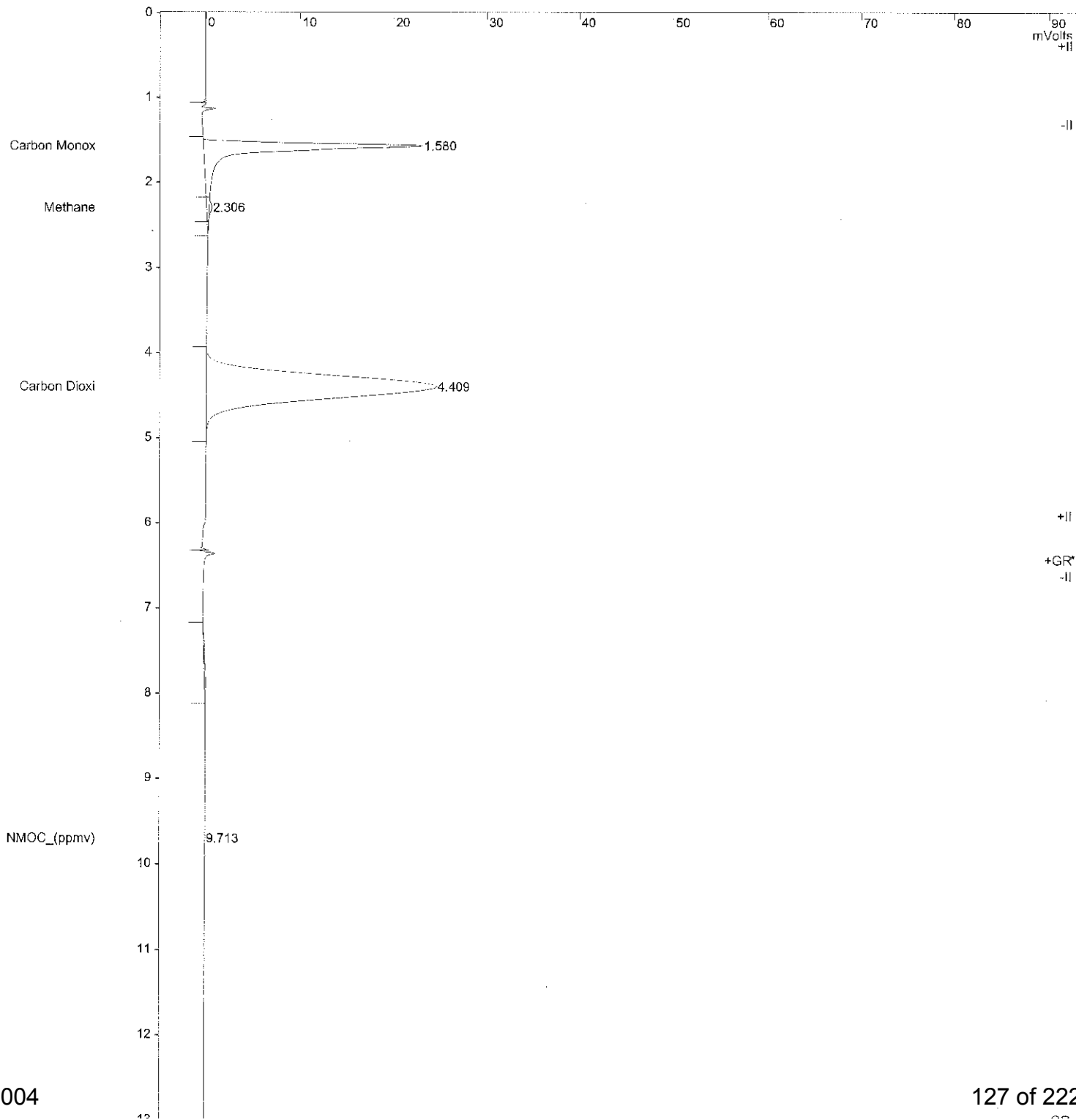
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun022.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-02 CH2M

Injection Date: 6/10/2015 14:22 Calculation Date: 6/10/2015 14:35

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun022.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-02 CH2M

Injection Date: 6/10/2015 14:22 Calculation Date: 6/10/2015 14:35

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 8 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC_(ppmv), and Totals.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -81 microVolts LSB: 1 microVolts

Noise (used): 27 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 14:35: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 14:21:21

Original Notes:

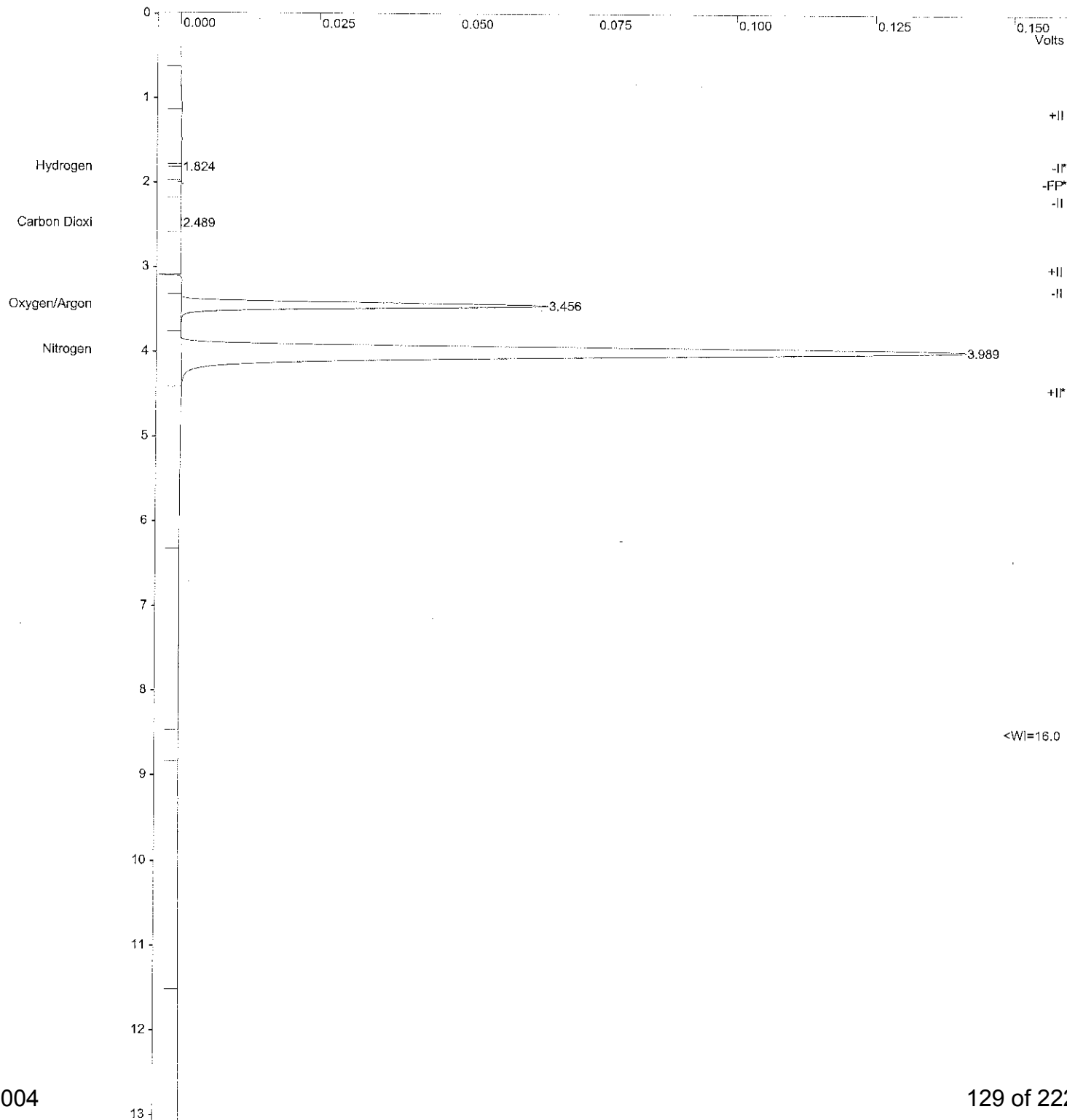
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun023.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-02 CH2M

Injection Date: 6/10/2015 14:36 Calculation Date: 6/10/2015 14:49

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun023.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-02 CH2M

Injection Date: 6/10/2015 14:36 Calculation Date: 6/10/2015 14:49

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and Totals.

Status Codes:
M - Missing peak
C - Out of calibration range

Total Unidentified Counts : 7723 counts

Detected Peaks: 7 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -36 microVolts LSB: 1 microVolts

Noise (used): 4 microVolts - monitored before this run

Manual injection

Calib. out of range; No Recovery Action Specified

Revision Log:

6/10/2015 14:49: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 14:34:54

Original Notes:

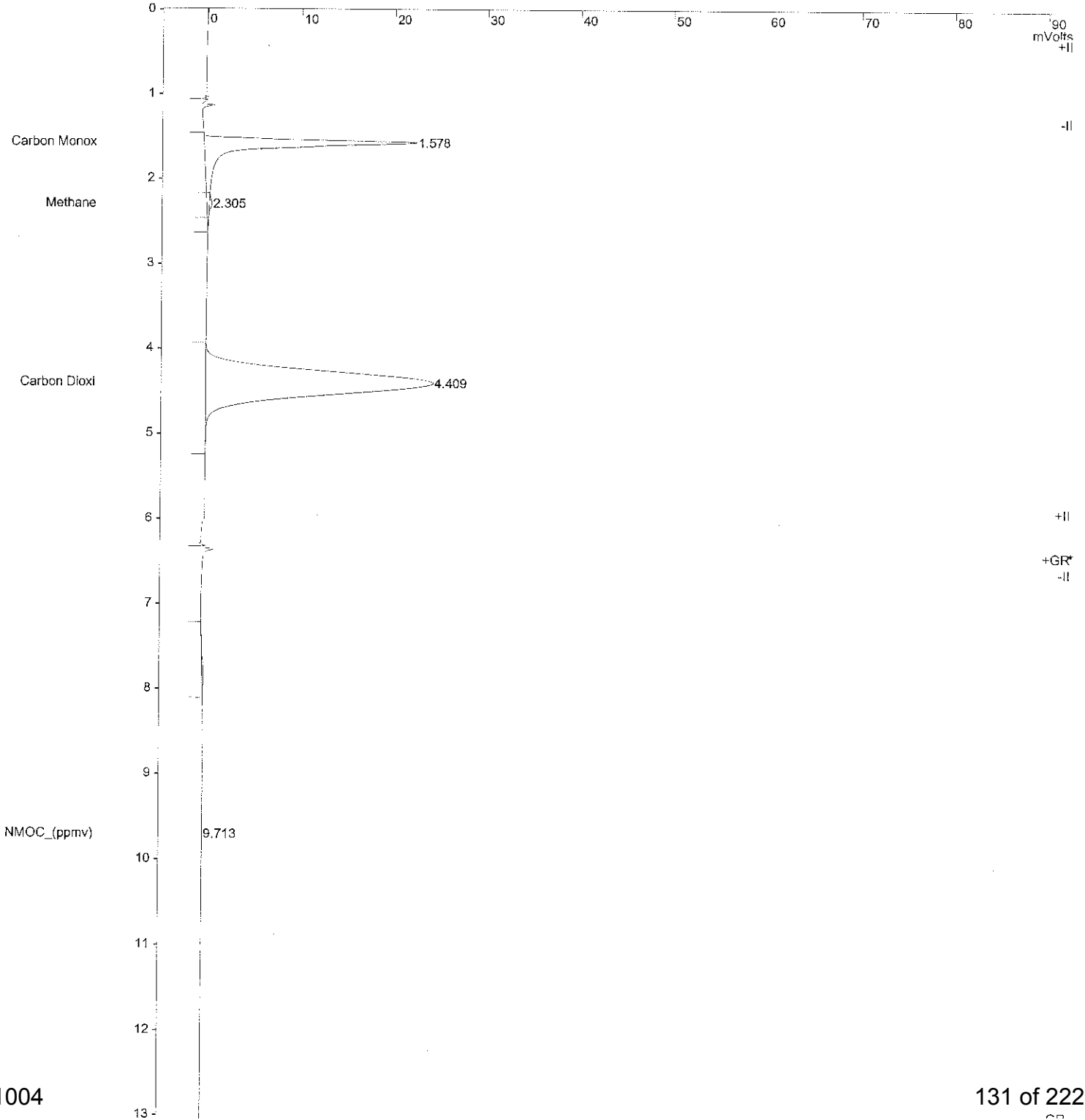
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun023.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-02 CH2M

Injection Date: 6/10/2015 14:36 Calculation Date: 6/10/2015 14:49

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun023.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-02 CH2M

Injection Date: 6/10/2015 14:36 Calculation Date: 6/10/2015 14:49

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC_ (ppmv) and a Totals row.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -28 microVolts LSB: 1 microVolts

Noise (used): 27 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 14:49: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 14:34:54

Original Notes:

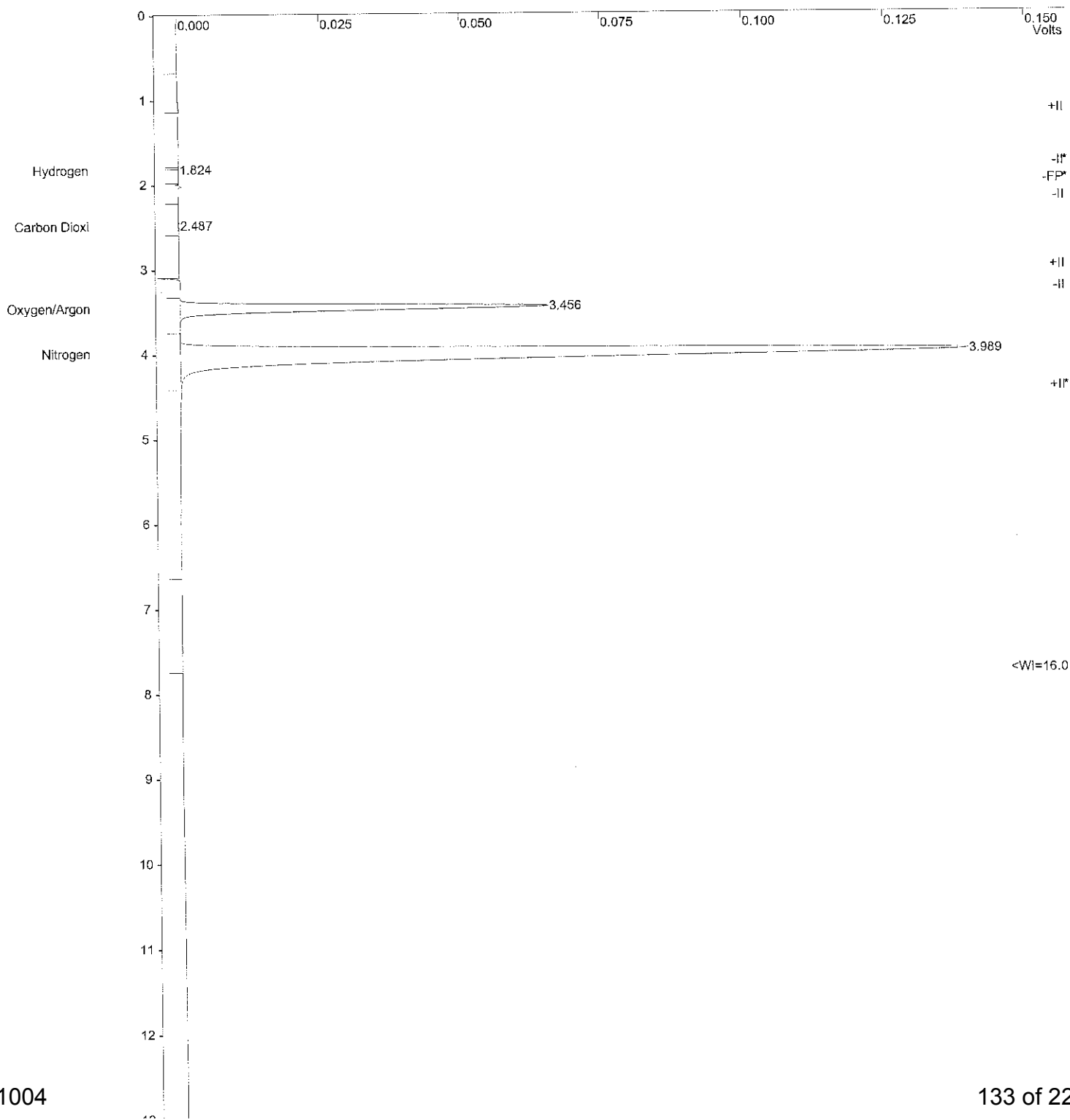
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun024.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-02 CH2M

Injection Date: 6/10/2015 14:51 Calculation Date: 6/10/2015 15:04

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun024.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-02 CH2M

Injection Date: 6/10/2015 14:51 Calculation Date: 6/10/2015 15:04

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
M - Missing peak

Total Unidentified Counts : 1912 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -31 microVolts LSB: 1 microVolts

Noise (used): 6 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 15:04: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 14:49:28

Original Notes:

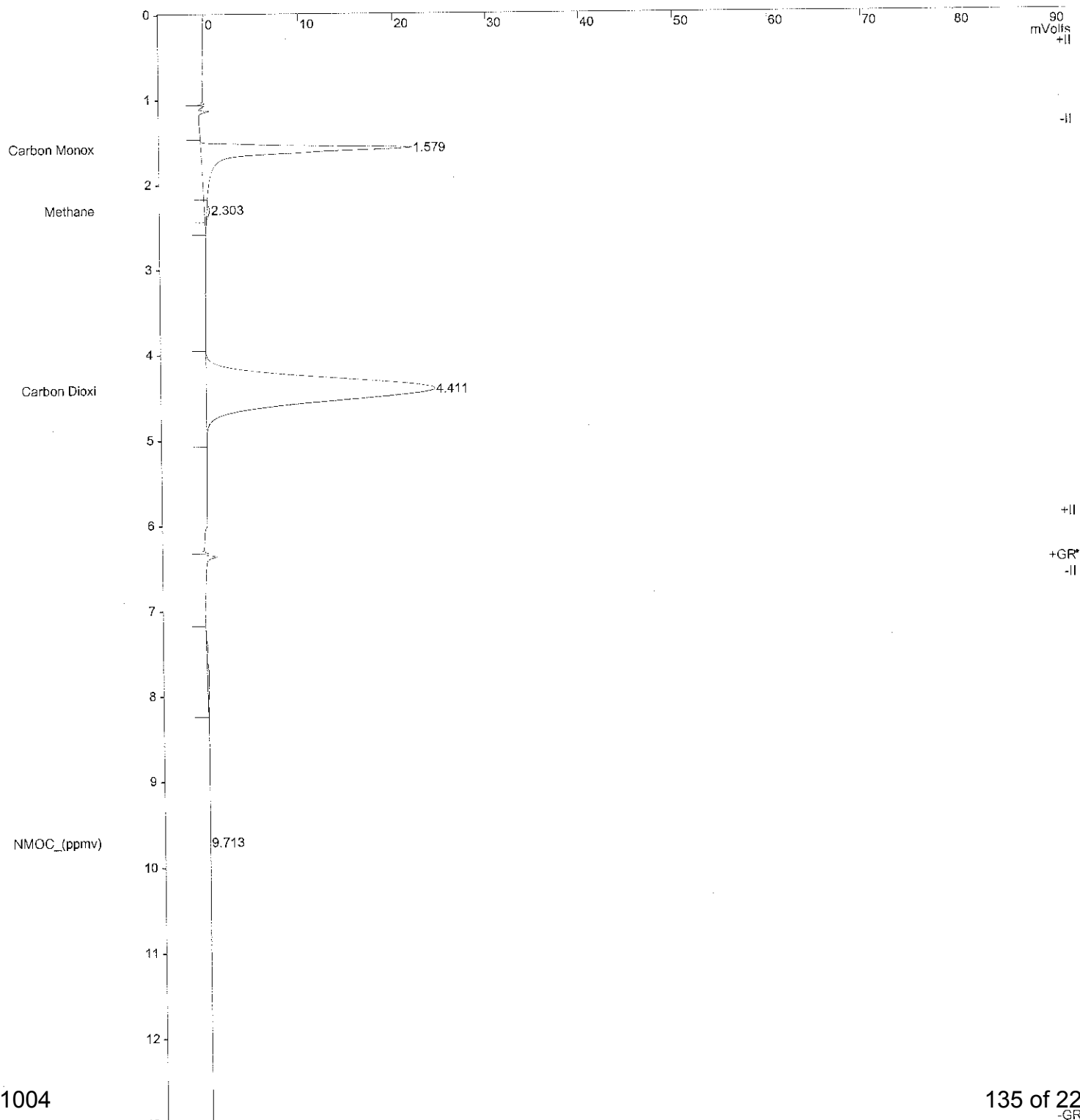
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun024.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-02 CH2M

Injection Date: 6/10/2015 14:51 Calculation Date: 6/10/2015 15:04

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun024.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-02 CH2M

Injection Date: 6/10/2015 14:51 Calculation Date: 6/10/2015 15:04

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC_(ppmv), and Totals.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -10 microVolts LSB: 1 microVolts

Noise (used): 25 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 15:04: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 14:49:28

Original Notes:

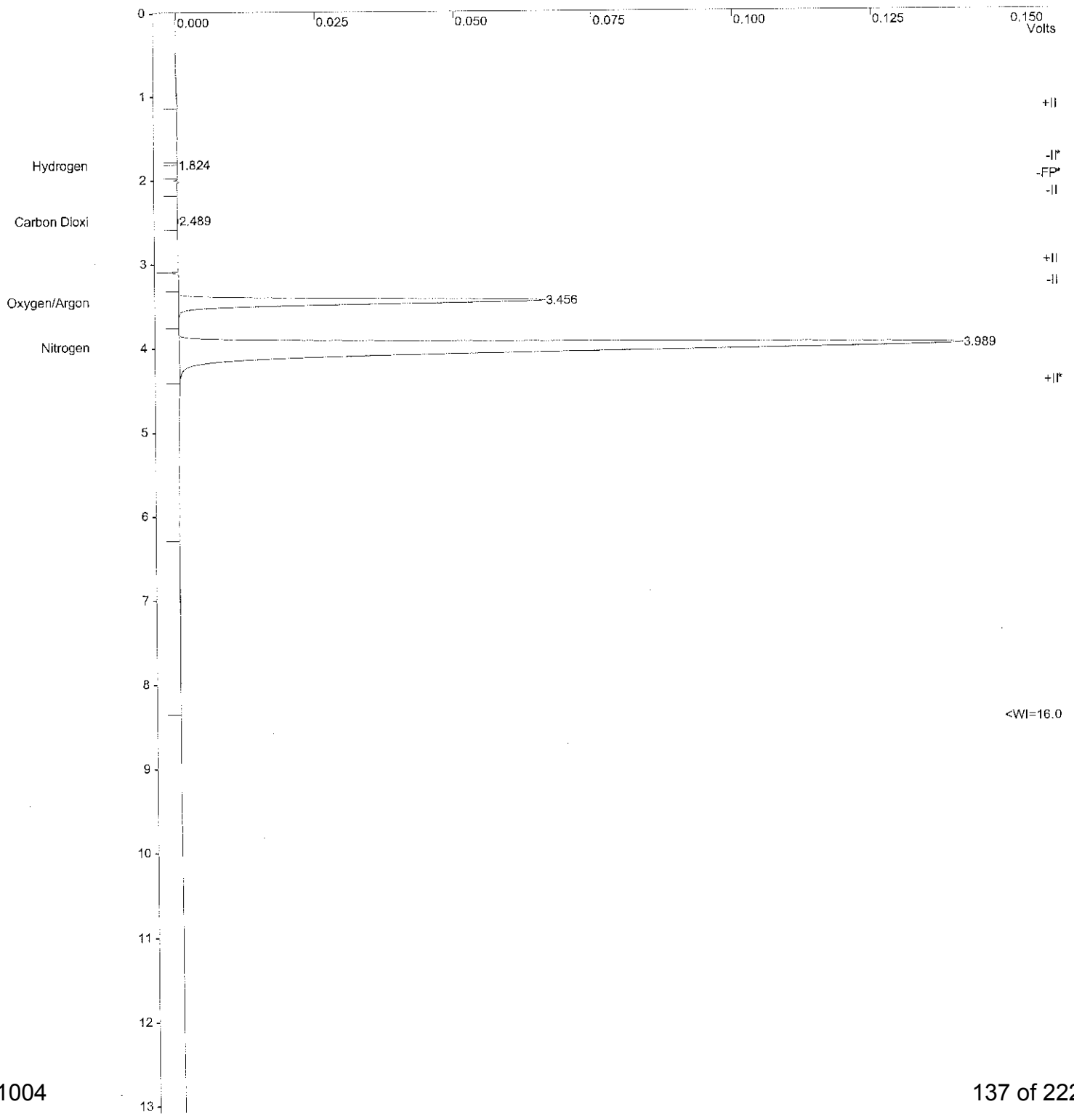
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun026.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-03 CH2M

Injection Date: 6/10/2015 15:22 Calculation Date: 6/10/2015 15:35

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun026.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-03 CH2M

Injection Date: 6/10/2015 15:22 Calculation Date: 6/10/2015 15:35

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
M - Missing peak

Total Unidentified Counts : 6267 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -38 microVolts LSB: 1 microVolts

Noise (used): 4 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 15:35: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 15:20:49

Original Notes:

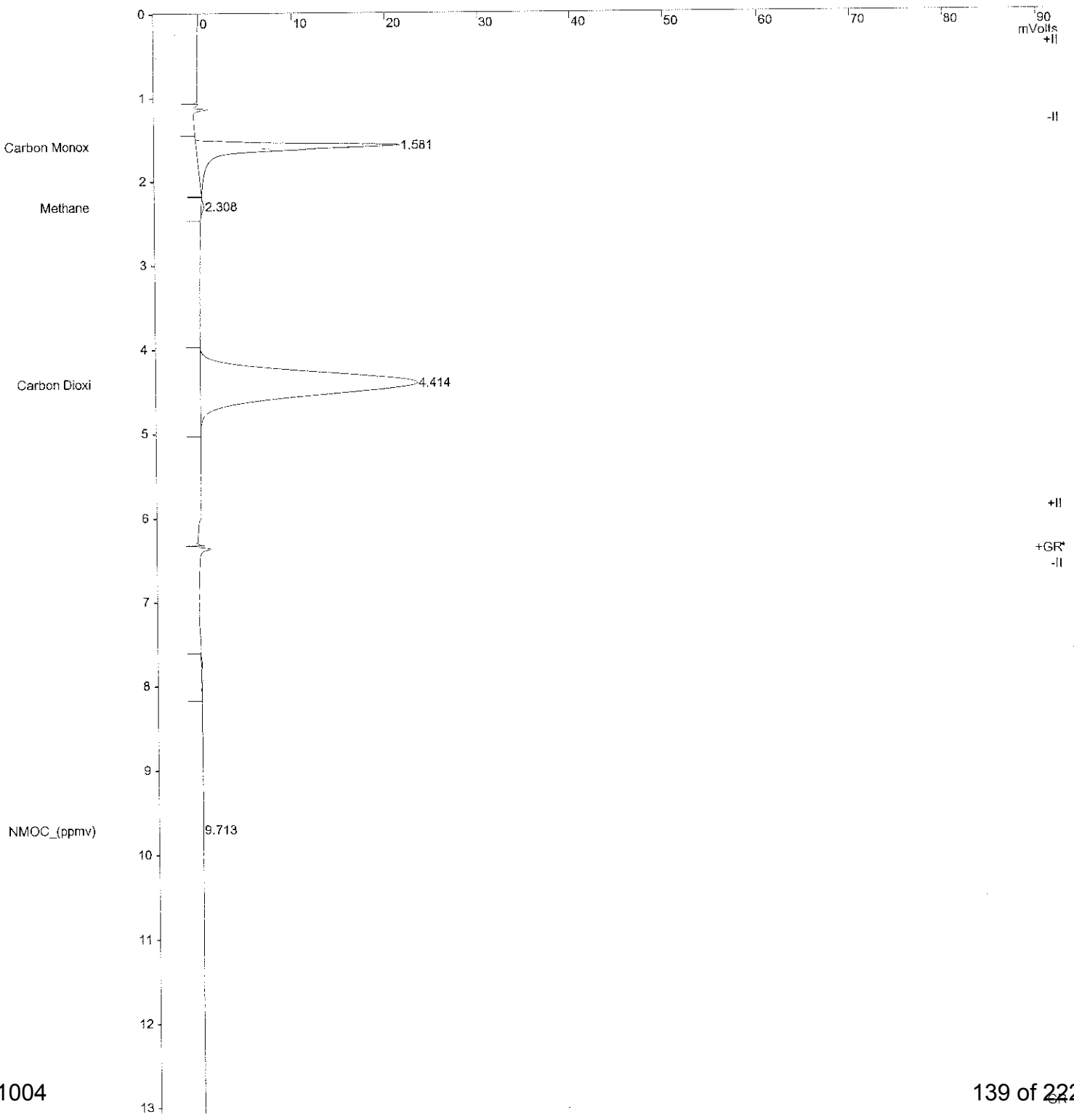
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun026.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-03 CH2M

Injection Date: 6/10/2015 15:22 Calculation Date: 6/10/2015 15:35

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun026.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-03 CH2M

Injection Date: 6/10/2015 15:22 Calculation Date: 6/10/2015 15:35

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC (ppmv), and Totals.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -12 microVolts LSB: 1 microVolts

Noise (used): 36 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 15:35: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 15:20:49

Original Notes:

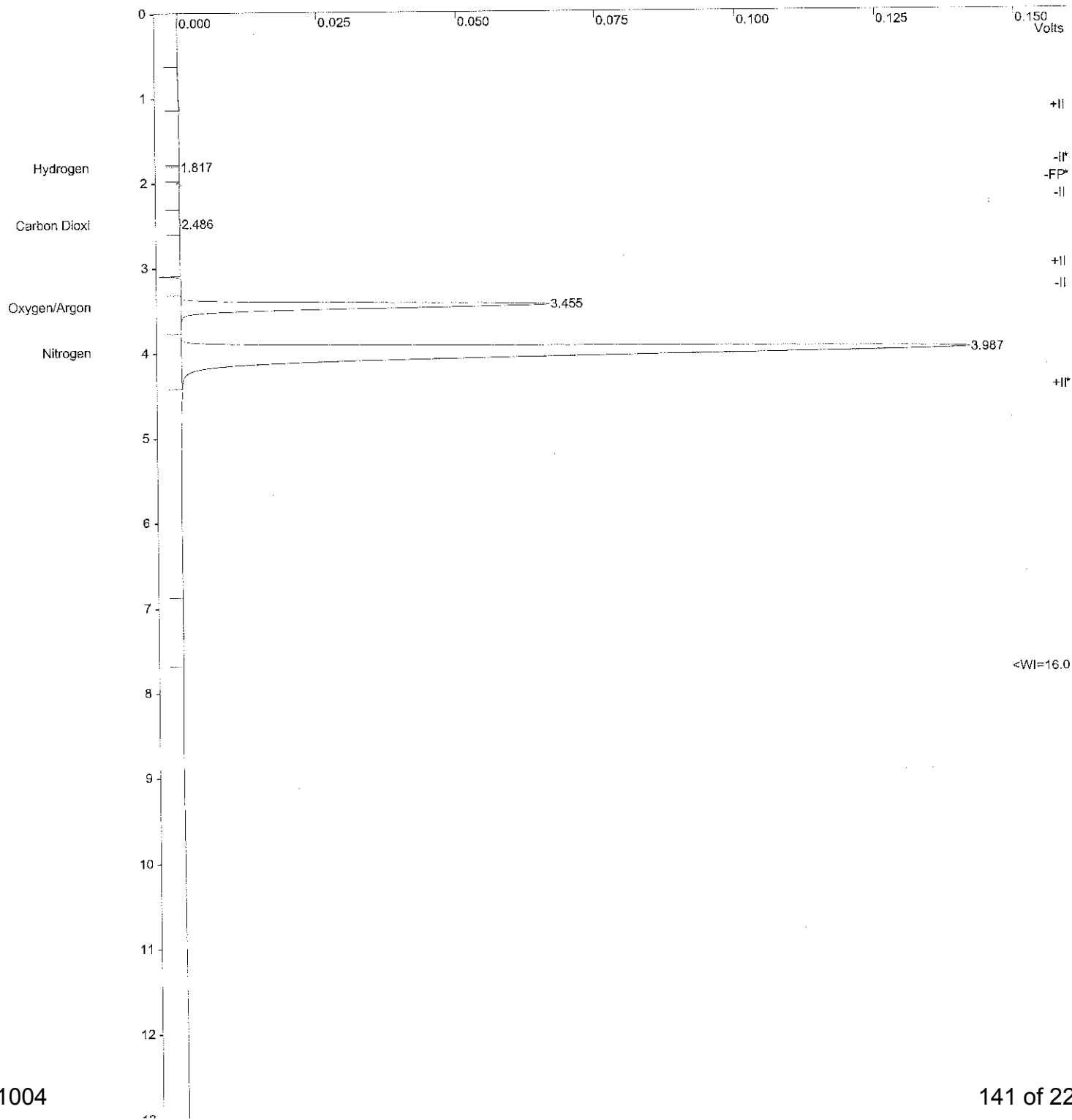
Title : Fixed Gas from TCD
 Run File : c:\temp gc\gc8a\2015\jun\10jun027.run
 Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
 Sample ID : G061004-03 CH2M

Injection Date: 6/10/2015 15:37 Calculation Date: 6/10/2015 15:50

Operator : AS Detector Type: 3800 (10 Volts)
 Workstation: Bus Address : 44
 Instrument : GC8A Sample Rate : 10.00 Hz
 Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 67 Zero Offset = 2%
 Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun027.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-03 CH2M

Injection Date: 6/10/2015 15:37 Calculation Date: 6/10/2015 15:50

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Contains 5 rows of peak data and a Totals row.

Status Codes:
M - Missing peak
C - Out of calibration range

Total Unidentified Counts : 906 counts
Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 5
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
Baseline Offset: -24 microVolts LSB: 1 microVolts

Noise (used): 6 microVolts - monitored before this run

Manual injection
Calib. out of range; No Recovery Action Specified

Revision Log:
6/10/2015 15:50: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 15:35:26

Original Notes:

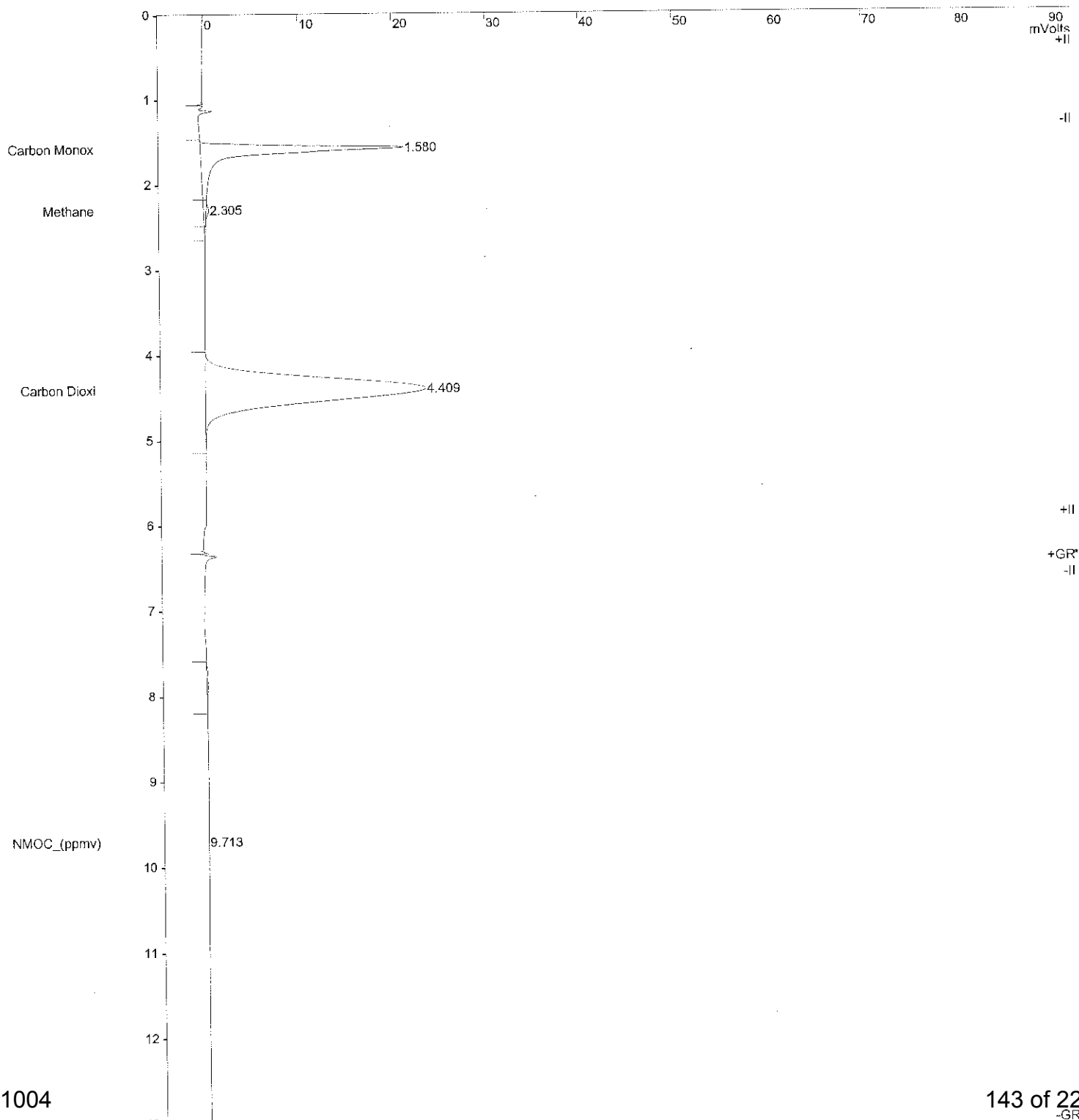
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun027.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-03 CH2M

Injection Date: 6/10/2015 15:37 Calculation Date: 6/10/2015 15:50

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun027.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-03 CH2M

Injection Date: 6/10/2015 15:37 Calculation Date: 6/10/2015 15:50

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, and NMOC_ (ppmv).

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -2 microVolts LSB: 1 microVolts

Noise (used): 32 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 15:50: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 15:35:26

Original Notes:

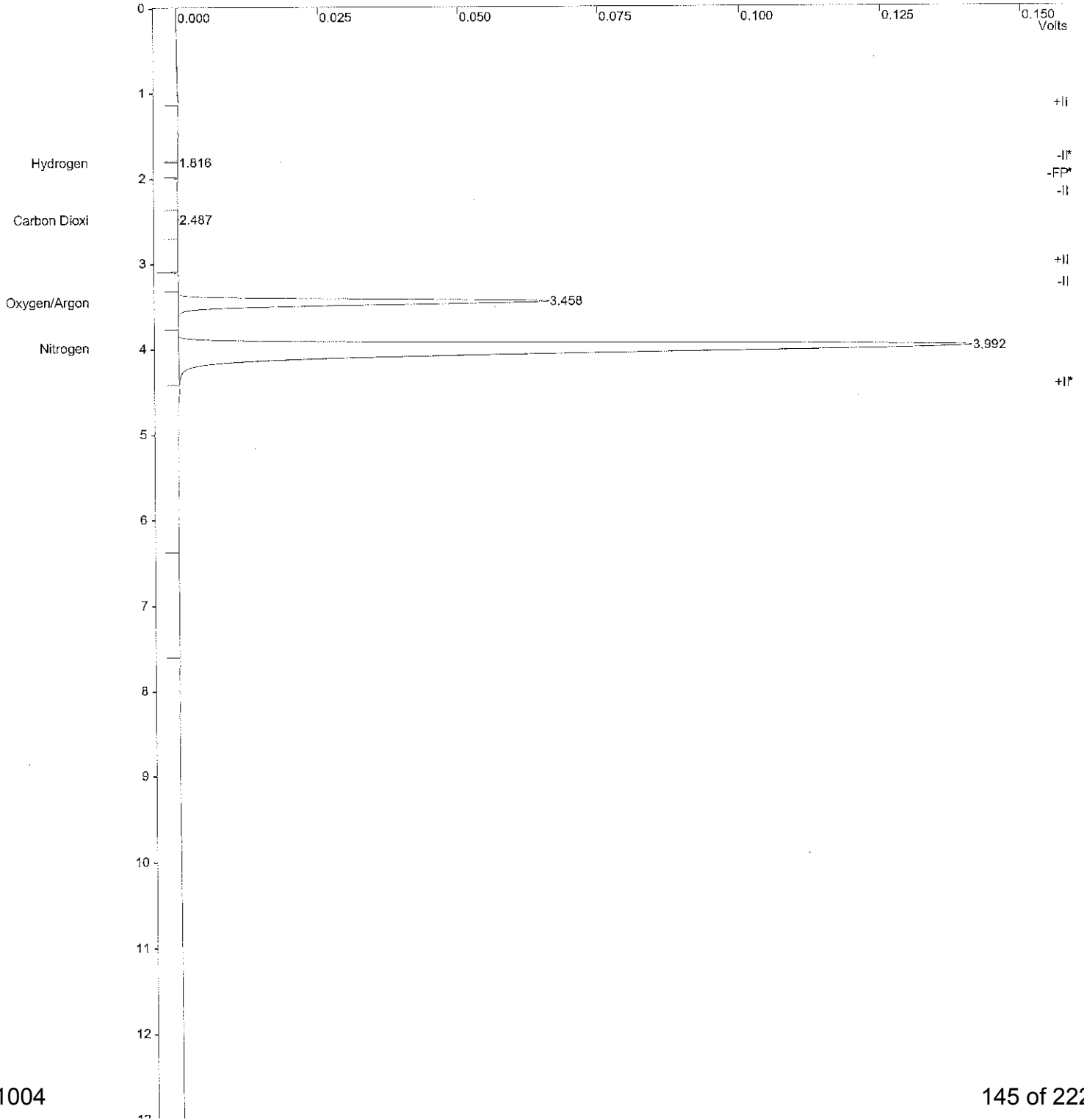
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun028.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-03 CH2M

Injection Date: 6/10/2015 15:52 Calculation Date: 6/10/2015 16:05

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun028.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-03 CH2M

Injection Date: 6/10/2015 15:52 Calculation Date: 6/10/2015 16:05

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
M - Missing peak
C - Out of calibration range

Total Unidentified Counts : 2119 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 9 microVolts LSB: 1 microVolts

Noise (used): 5 microVolts - monitored before this run

Manual injection

Calib. out of range; No Recovery Action Specified

Revision Log:

6/10/2015 16:05: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 15:35:26

Original Notes:

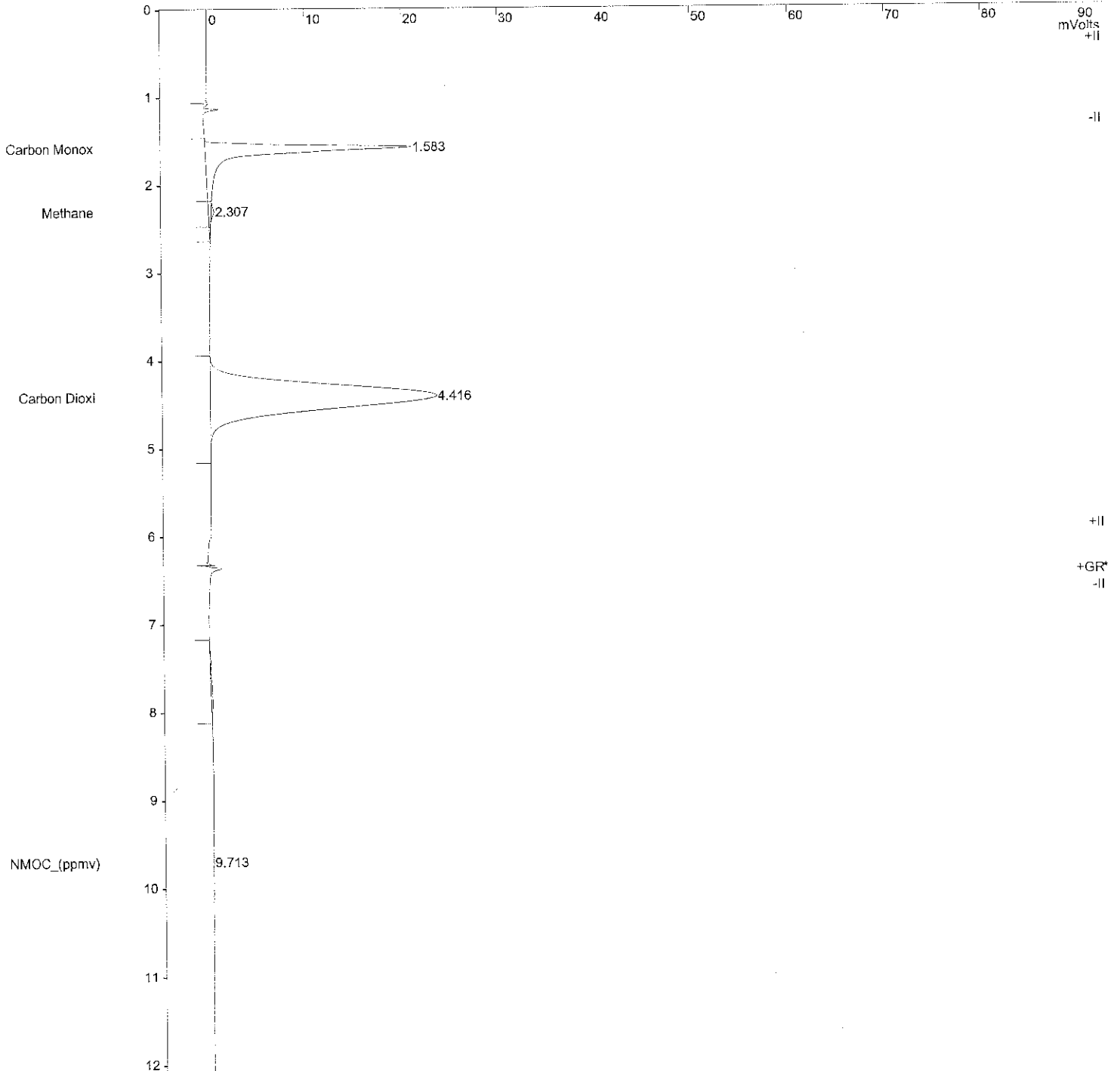
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun028.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-03 CH2M

Injection Date: 6/10/2015 15:52 Calculation Date: 6/10/2015 16:05

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun028.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-03 CH2M

Injection Date: 6/10/2015 15:52 Calculation Date: 6/10/2015 16:05

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC (ppmv), and Totals.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -53 microVolts LSB: 1 microVolts

Noise (used): 21 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 16:05: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 15:35:26

Original Notes:

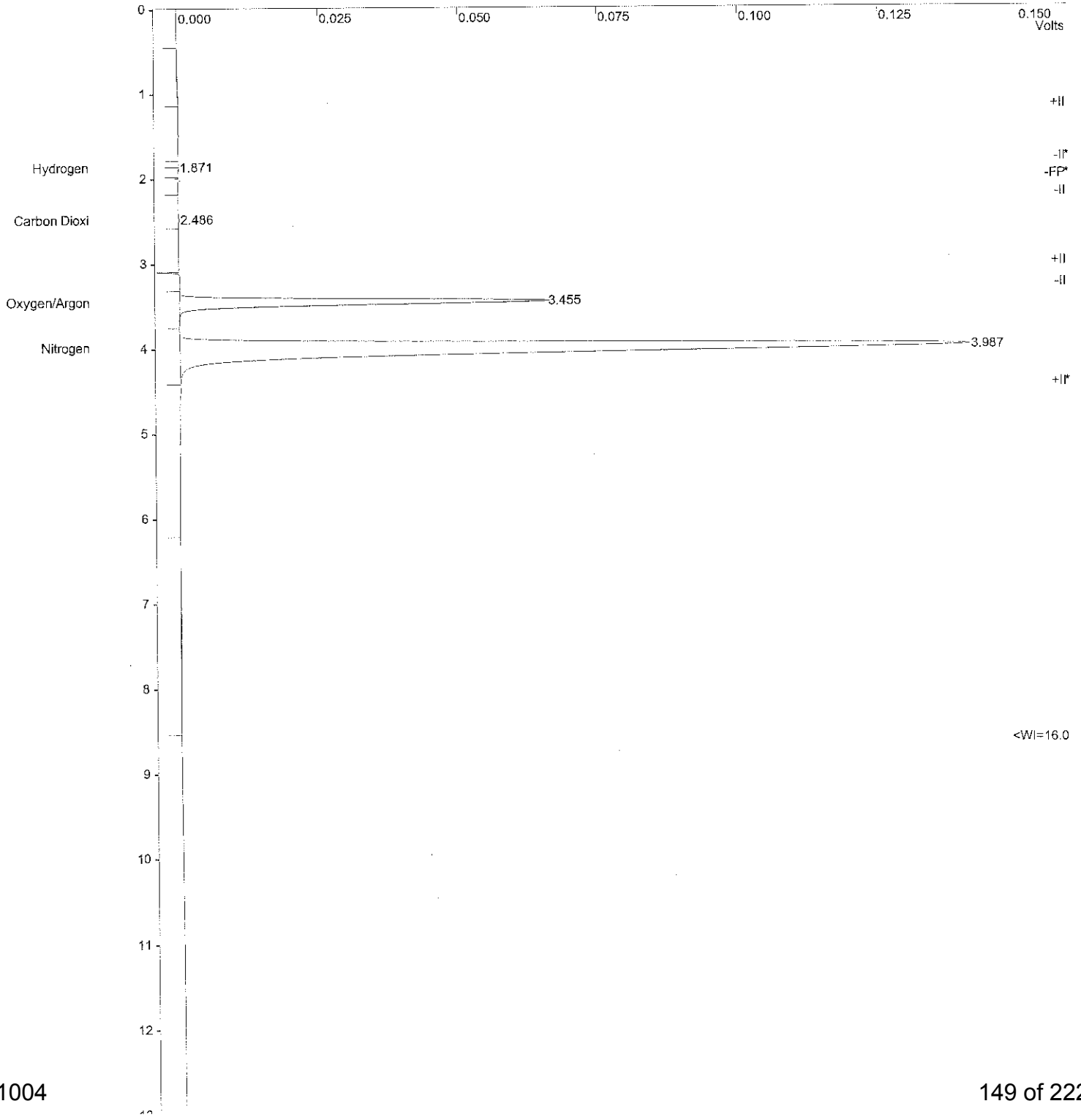
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun030.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-04 CH2M

Injection Date: 6/10/2015 16:23 Calculation Date: 6/10/2015 16:36

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.087 min Min / Tick = 1.00



<WI=16.0

Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun030.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-04 CH2M

Injection Date: 6/10/2015 16:23 Calculation Date: 6/10/2015 16:36

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
M - Missing peak
C - Out of calibration range

Total Unidentified Counts : 7229 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -2 microVolts LSB: 1 microVolts

Noise (used): 4 microVolts - monitored before this run

Manual injection

Calib. out of range; No Recovery Action Specified

Revision Log:

6/10/2015 16:36: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 9, Advance Time: 16:21:31

Original Notes:

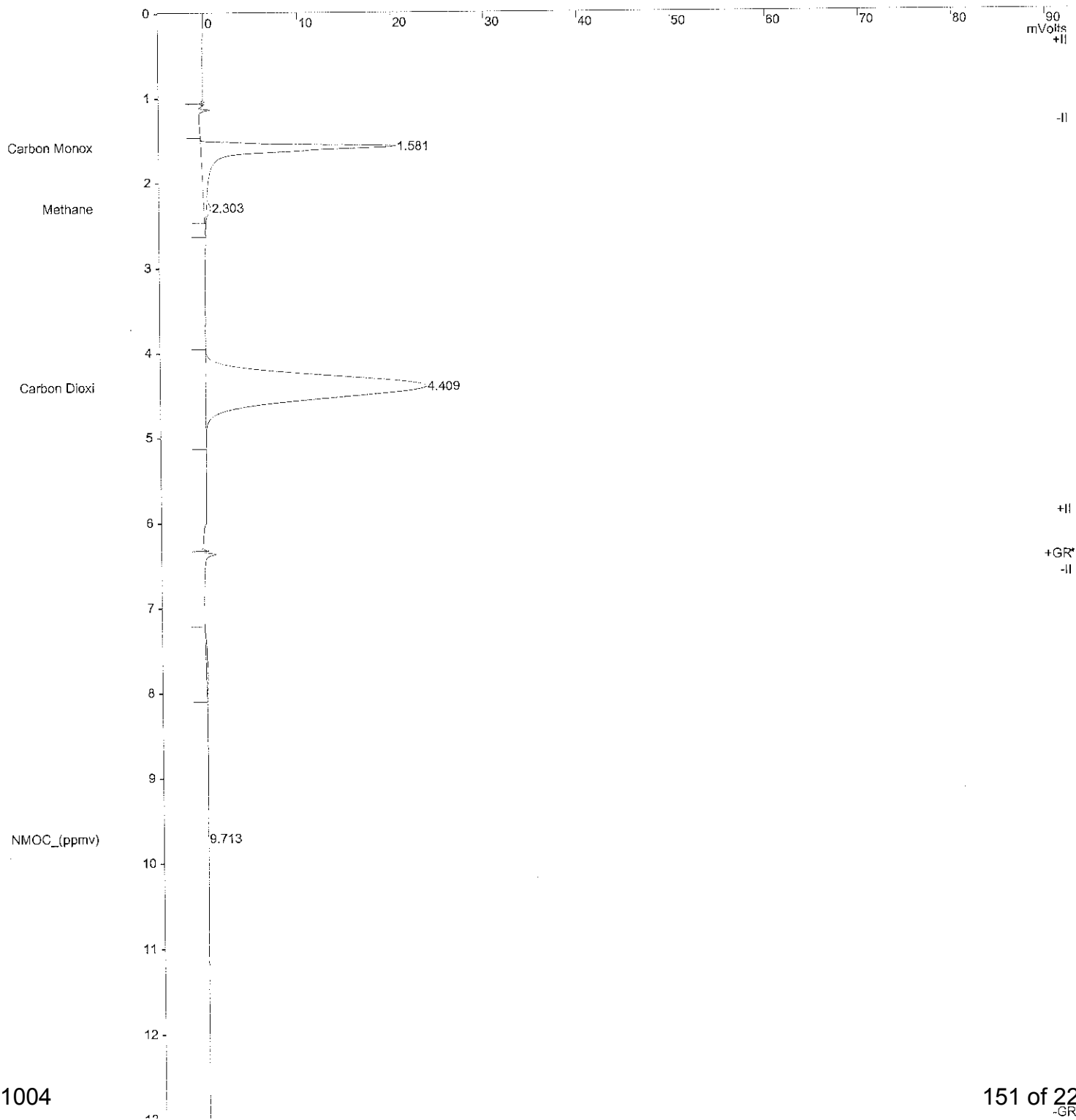
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun030.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-04 CH2M

Injection Date: 6/10/2015 16:23 Calculation Date: 6/10/2015 16:36

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.087 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun030.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-04 CH2M

Injection Date: 6/10/2015 16:23 Calculation Date: 6/10/2015 16:36

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC_(ppmv), and Totals.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -15 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 16:36: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 9, Advance Time: 16:21:31

Original Notes:

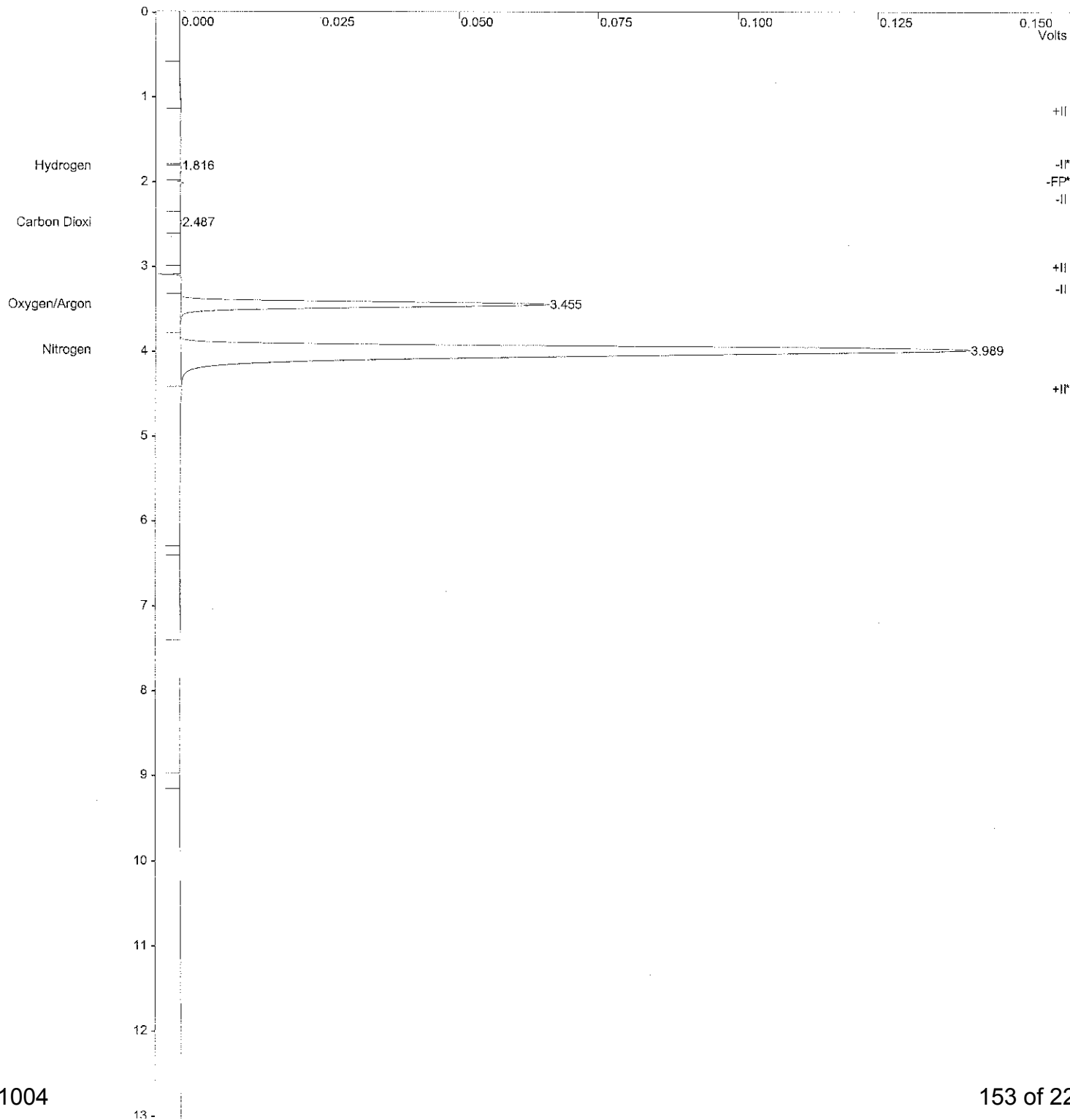
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun031.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-04 CH2M

Injection Date: 6/10/2015 16:37 Calculation Date: 6/10/2015 16:50

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun031.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-04 CH2M

Injection Date: 6/10/2015 16:37 Calculation Date: 6/10/2015 16:50

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
M - Missing peak
C - Out of calibration range

Total Unidentified Counts : 1618 counts

Detected Peaks: 10 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 5 microVolts - monitored before this run

Manual injection

Calib. out of range; No Recovery Action Specified

Revision Log:

6/10/2015 16:50: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 9, Advance Time: 16:36:08

Original Notes:

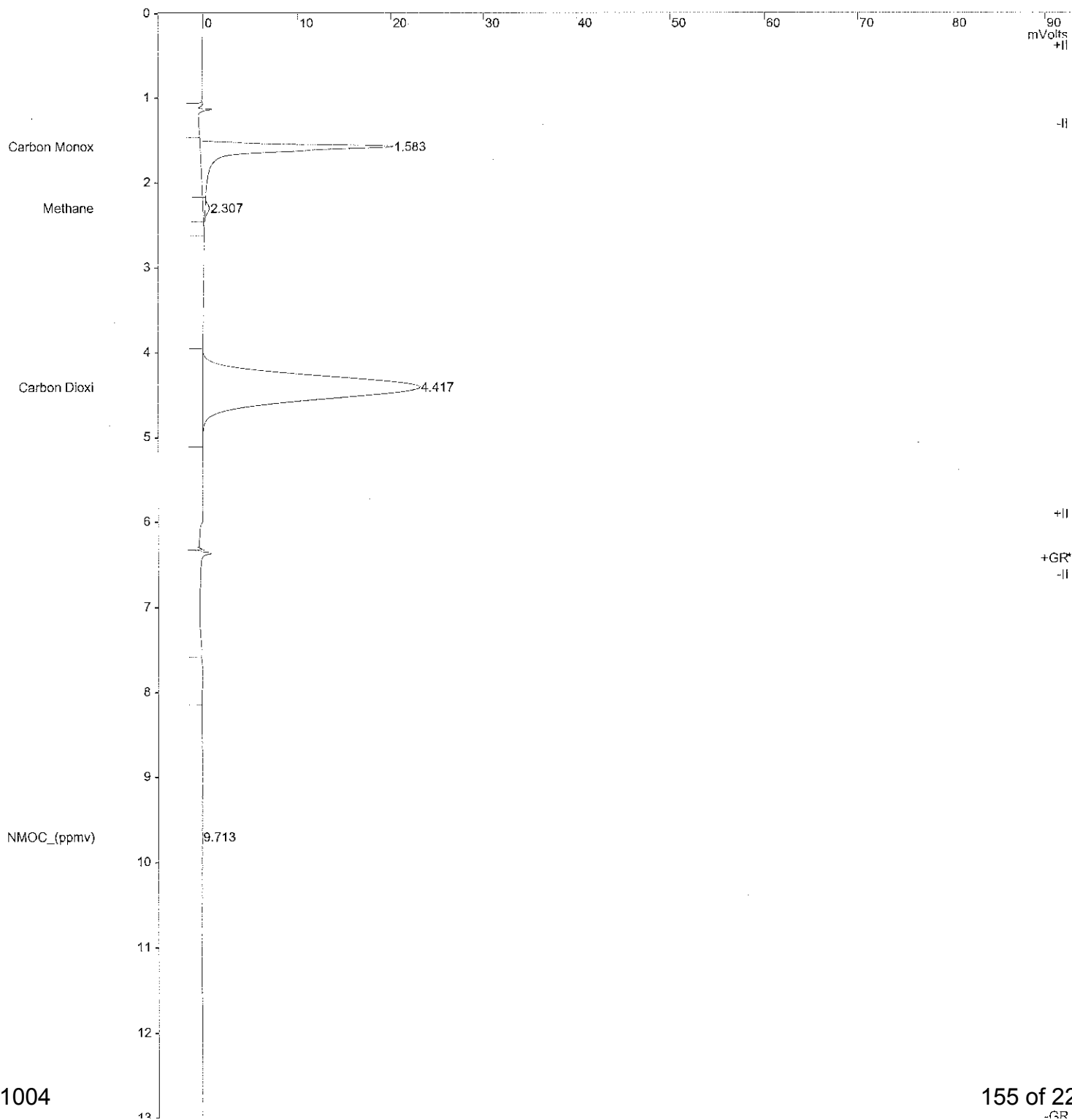
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun031.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-04 CH2M

Injection Date: 6/10/2015 16:37 Calculation Date: 6/10/2015 16:50

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun031.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-04 CH2M

Injection Date: 6/10/2015 16:37 Calculation Date: 6/10/2015 16:50

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC_(ppmv), and Totals.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -12 microVolts LSB: 1 microVolts

Noise (used): 32 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 16:50: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 9, Advance Time: 16:36:08

Original Notes:

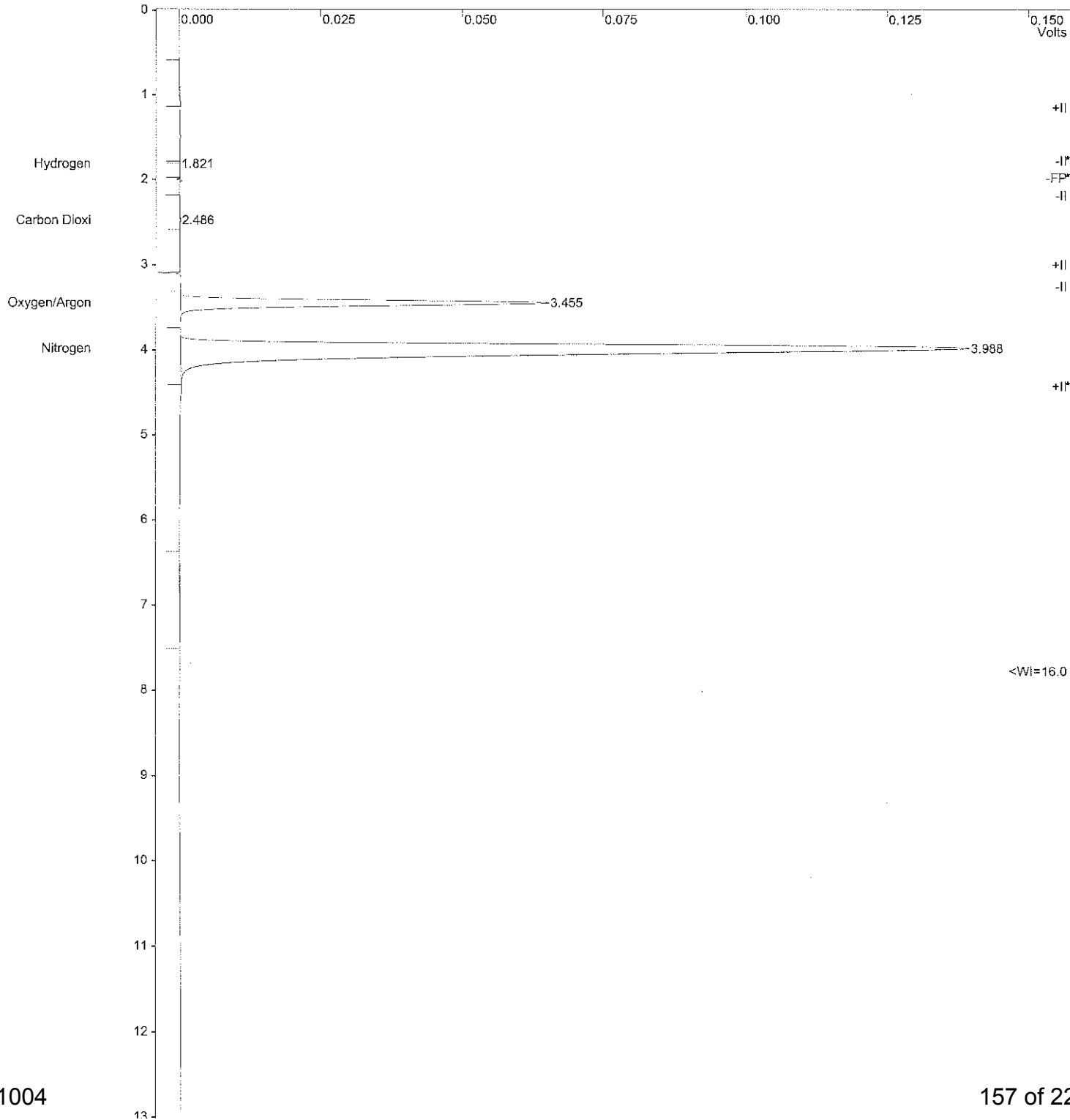
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun032.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-04 CH2M

Injection Date: 6/10/2015 16:52 Calculation Date: 6/10/2015 17:05

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun032.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-04 CH2M

Injection Date: 6/10/2015 16:52 Calculation Date: 6/10/2015 17:05

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
M - Missing peak

Total Unidentified Counts : 2136 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -2 microVolts LSB: 1 microVolts

Noise (used): 4 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 17:05: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 9, Advance Time: 16:50:42

Original Notes:

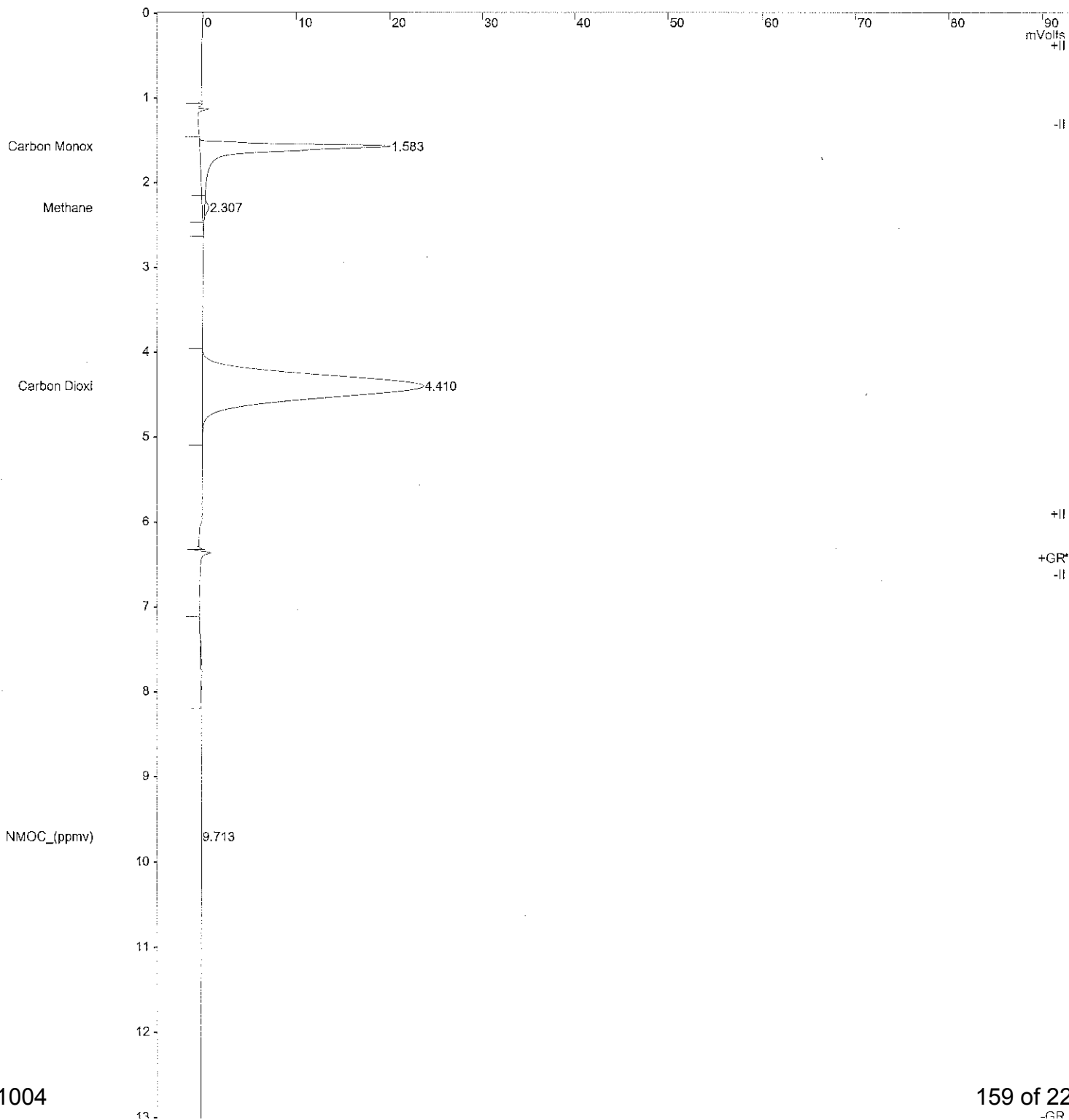
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun032.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-04 CH2M

Injection Date: 6/10/2015 16:52 Calculation Date: 6/10/2015 17:05

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun032.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-04 CH2M

Injection Date: 6/10/2015 16:52 Calculation Date: 6/10/2015 17:05

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC_(ppmv) and a Totals row.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -24 microVolts LSB: 1 microVolts

Noise (used): 25 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 17:05: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 9, Advance Time: 16:50:42

Original Notes:

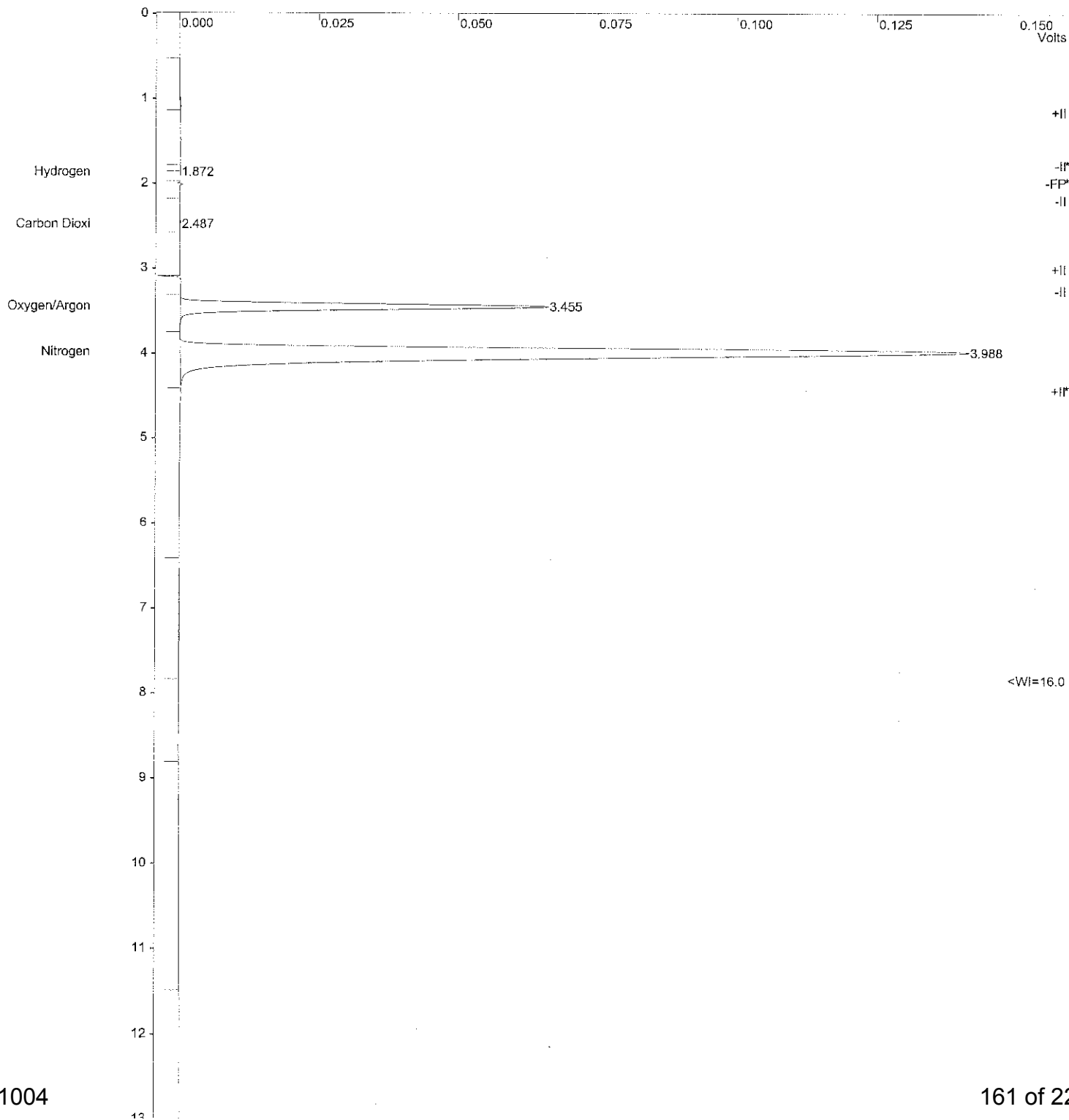
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun034.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-05 CH2M

Injection Date: 6/10/2015 17:21 Calculation Date: 6/10/2015 17:34

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun034.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-05 CH2M

Injection Date: 6/10/2015 17:21 Calculation Date: 6/10/2015 17:34

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and Totals.

Status Codes:
M - Missing peak
C - Out of calibration range

Total Unidentified Counts : 4173 counts

Detected Peaks: 7 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -2 microVolts LSB: 1 microVolts

Noise (used): 4 microVolts - monitored before this run

Manual injection

Calib. out of range; No Recovery Action Specified

Revision Log:

6/10/2015 17:34: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 17:19:51

Original Notes:

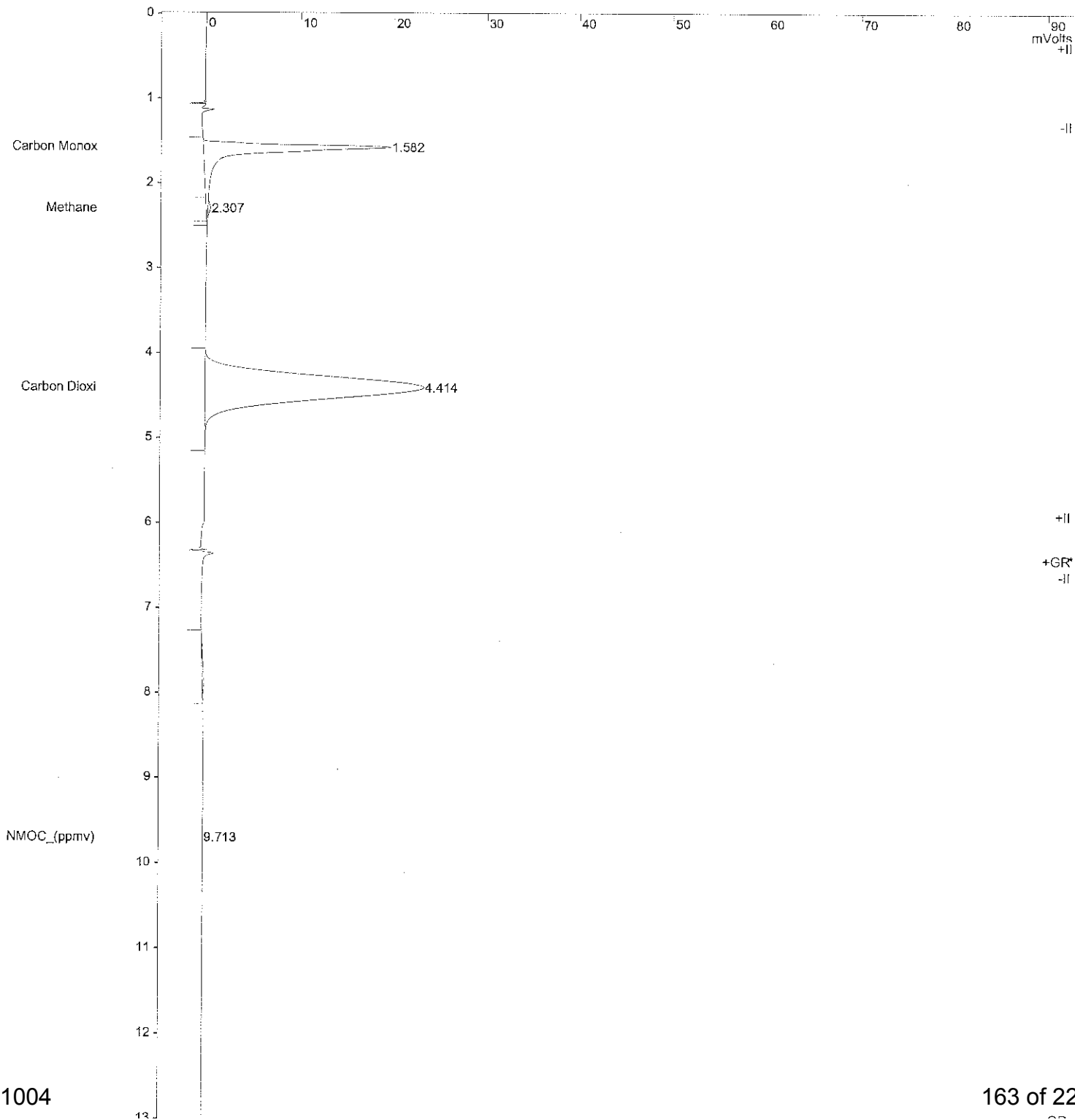
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun034.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-05 CH2M

Injection Date: 6/10/2015 17:21 Calculation Date: 6/10/2015 17:34

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun034.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-05 CH2M

Injection Date: 6/10/2015 17:21 Calculation Date: 6/10/2015 17:34

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC_(ppmv), and Totals.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -13 microVolts LSB: 1 microVolts

Noise (used): 21 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 17:34: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 17:19:51

Original Notes:

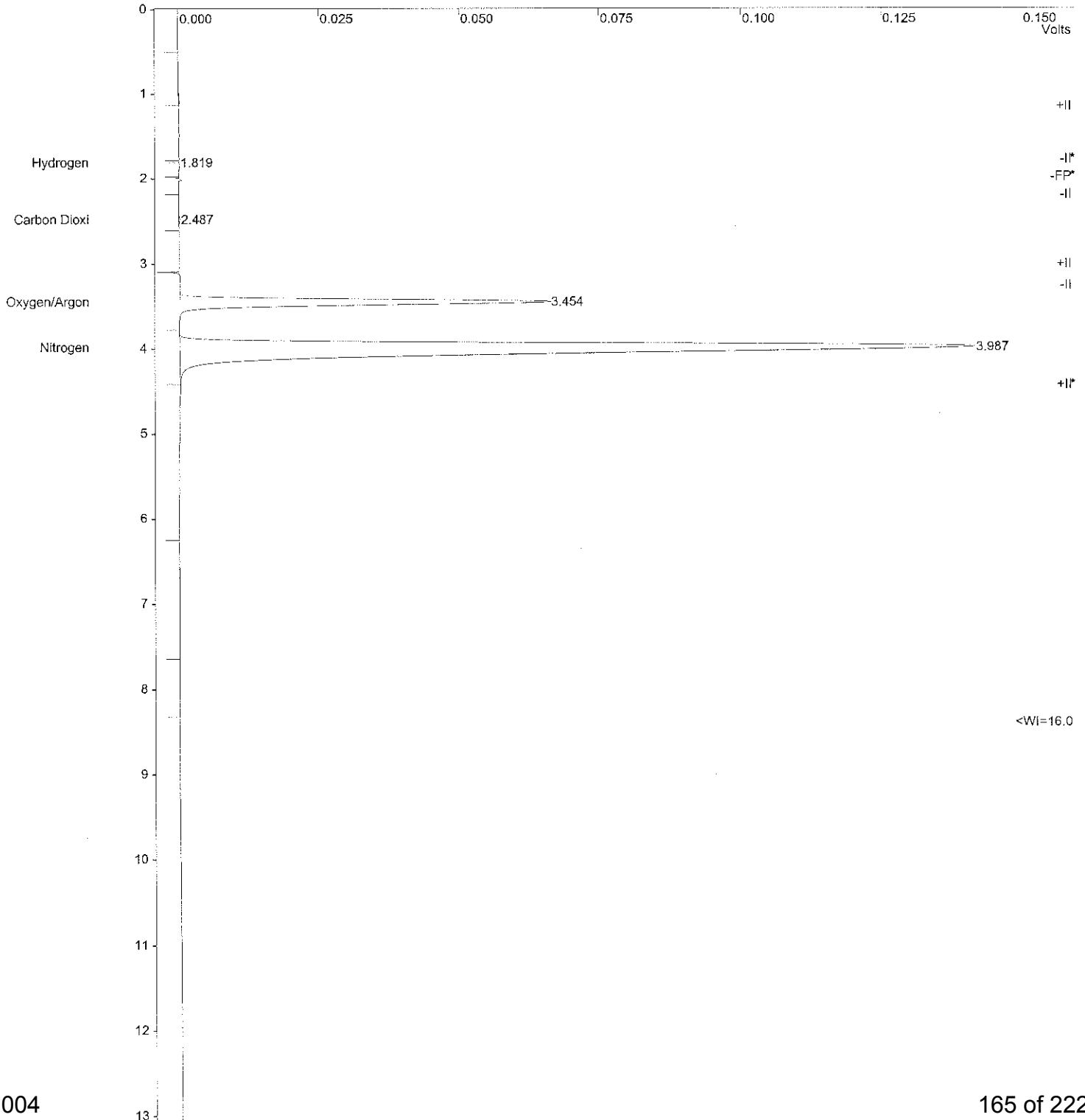
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun035.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-05 CH2M

Injection Date: 6/10/2015 17:36 Calculation Date: 6/10/2015 17:49

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.087 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun035.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-05 CH2M

Injection Date: 6/10/2015 17:36 Calculation Date: 6/10/2015 17:49

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and Totals.

Status Codes:
M - Missing peak
C - Out of calibration range

Total Unidentified Counts : 6151 counts

Detected Peaks: 7 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -1 microVolts LSB: 1 microVolts

Noise (used): 4 microVolts - monitored before this run

Manual injection

Calib. out of range; No Recovery Action Specified

Revision Log:

6/10/2015 17:49: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 17:34:25

Original Notes:

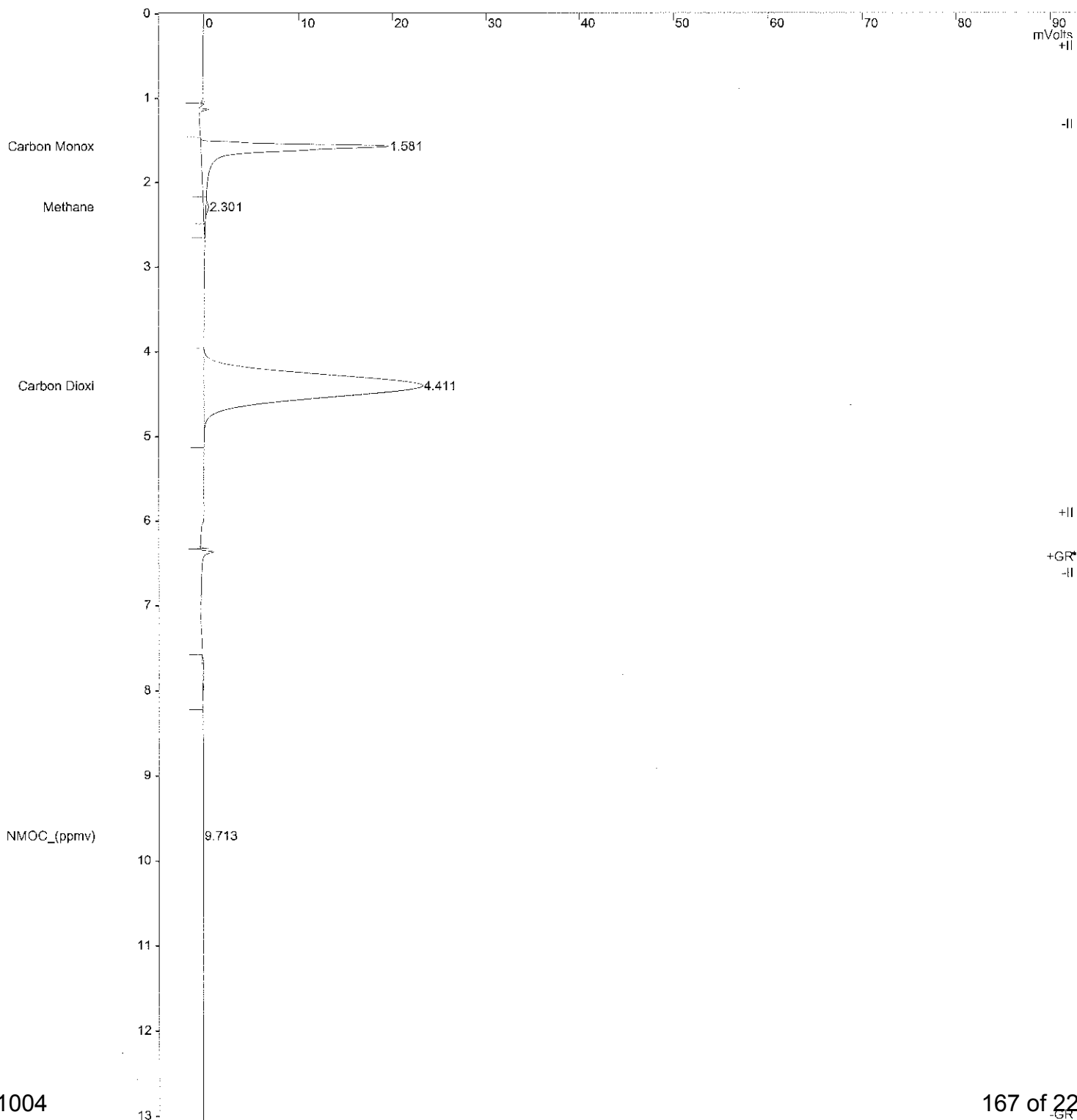
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun035.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-05 CH2M

Injection Date: 6/10/2015 17:36 Calculation Date: 6/10/2015 17:49

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.087 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun035.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-05 CH2M

Injection Date: 6/10/2015 17:36 Calculation Date: 6/10/2015 17:49

Operator : AS Detector Type: 3800 (10 volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC_(ppmv), and Totals.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -5 microVolts LSB: 1 microVolts

Noise (used): 29 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 17:49: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 17:34:25

Original Notes:

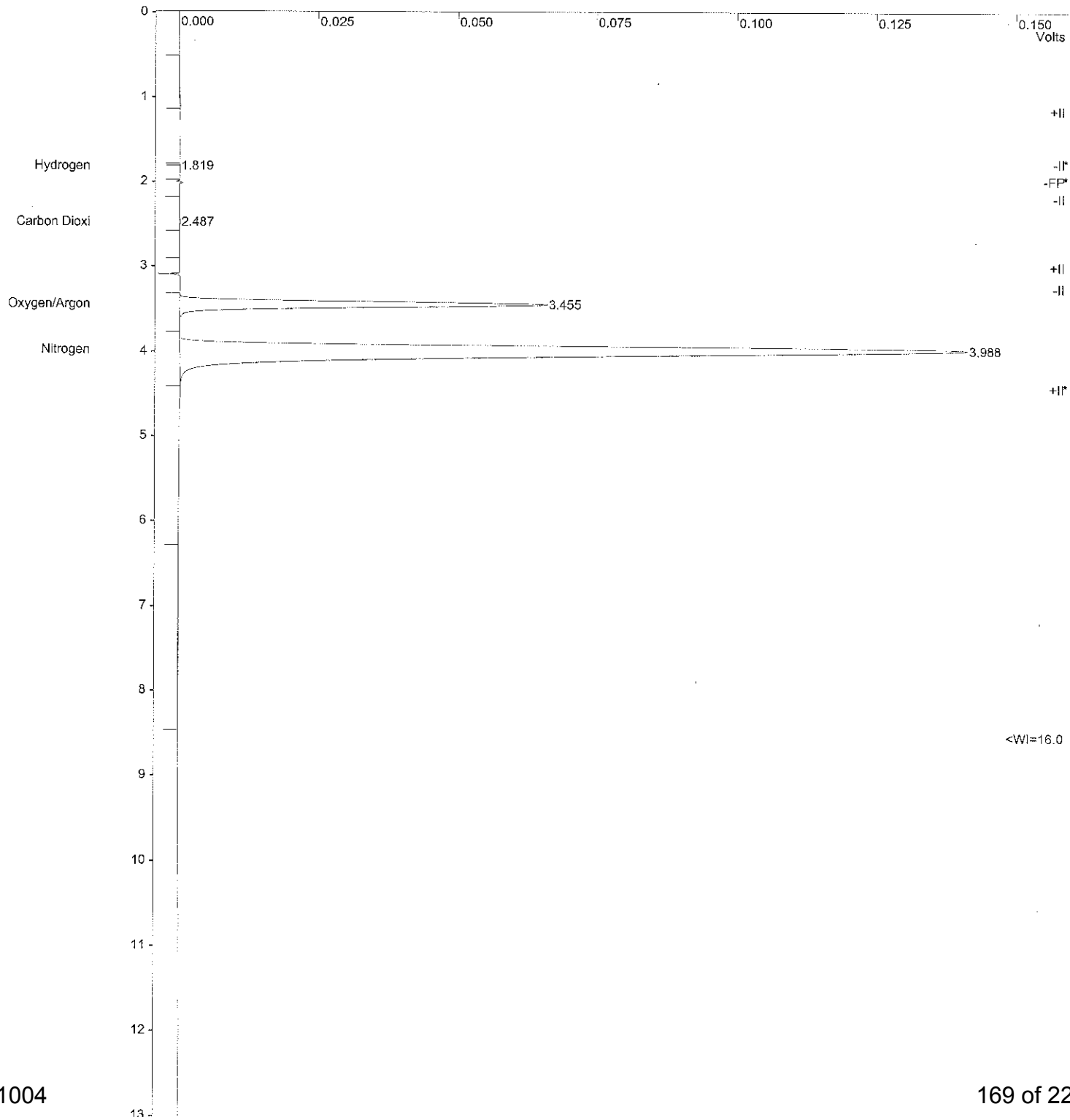
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun036.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-05 CH2M

Injection Date: 6/10/2015 17:50 Calculation Date: 6/10/2015 18:03

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun036.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-05 CH2M

Injection Date: 6/10/2015 17:50 Calculation Date: 6/10/2015 18:03

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
M - Missing peak
C - Out of calibration range

Total Unidentified Counts : 6534 counts
Detected Peaks: 7 Rejected Peaks: 1 Identified Peaks: 5
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 10
Baseline Offset: 2 microVolts LSB: 1 microVolts
Noise (used): 3 microVolts - monitored before this run

Manual injection
Calib. out of range; No Recovery Action Specified

Revision Log:
6/10/2015 18:03: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 17:49:00

Original Notes:

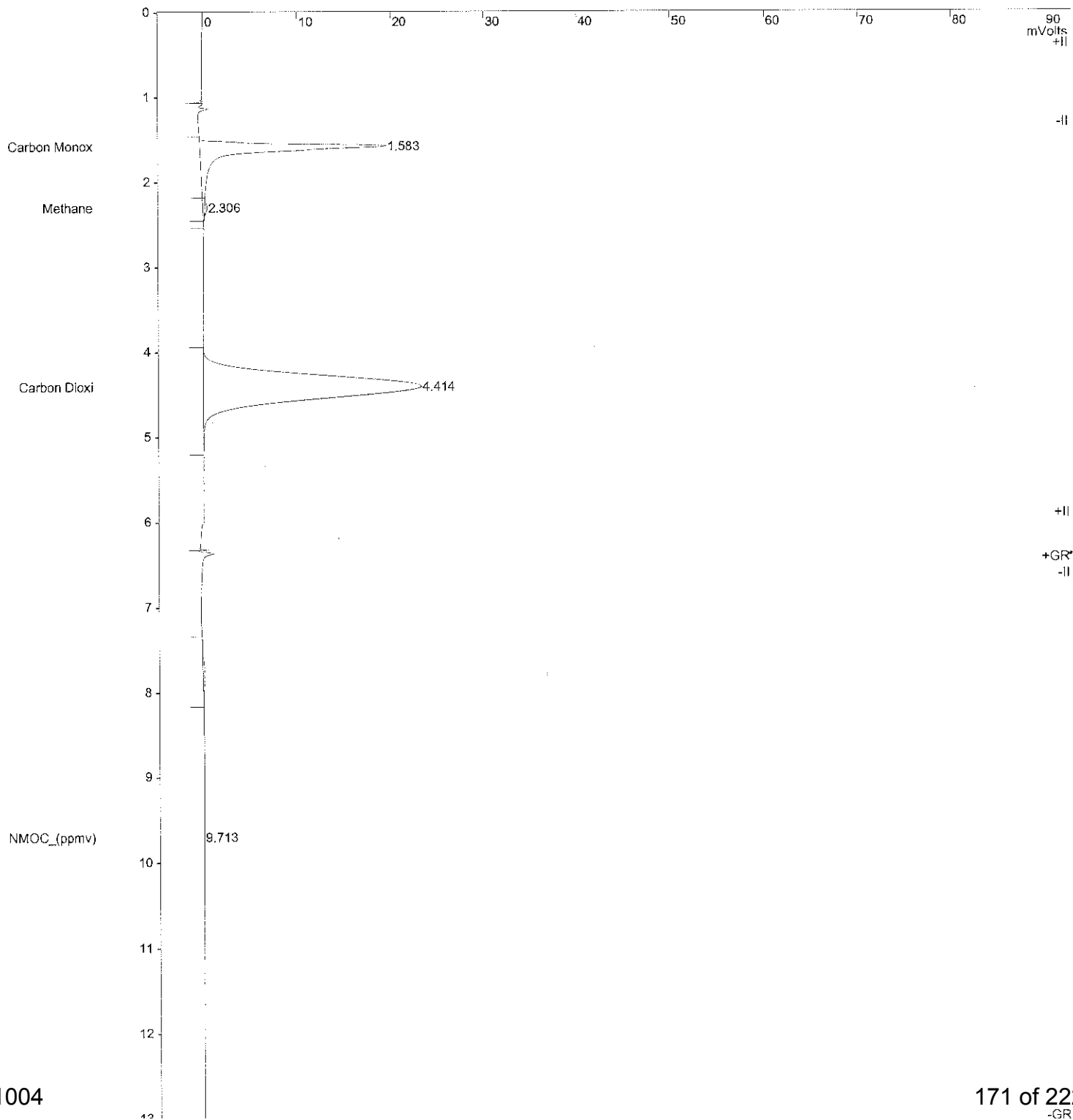
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun036.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-05 CH2M

Injection Date: 6/10/2015 17:50 Calculation Date: 6/10/2015 18:03

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun036.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-05 CH2M

Injection Date: 6/10/2015 17:50 Calculation Date: 6/10/2015 18:03

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC_(ppmv) and a Totals row.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -5 microVolts LSB: 1 microVolts

Noise (used): 26 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 18:03: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 17:49:00

Original Notes:

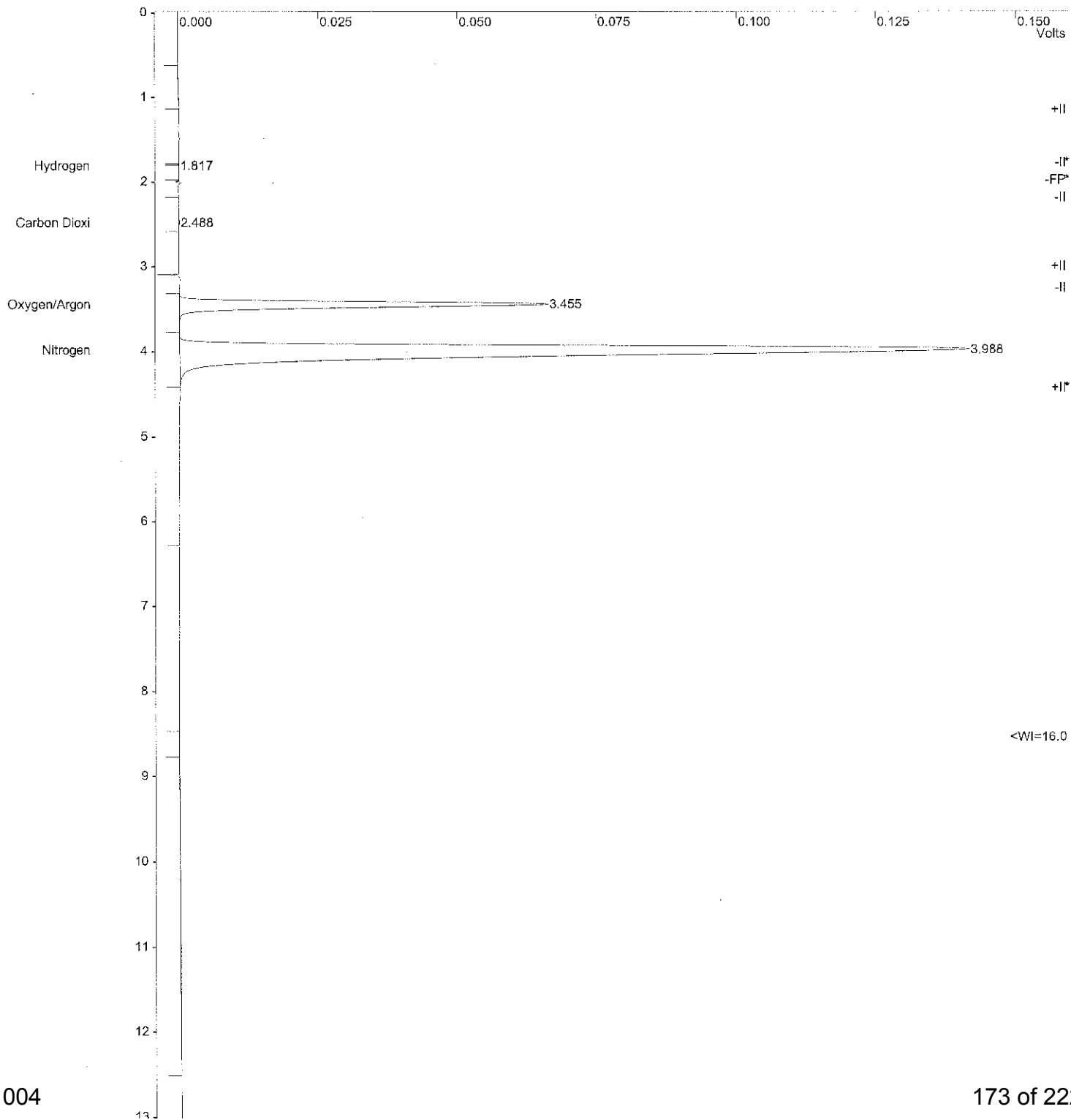
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun038.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-06 CH2M

Injection Date: 6/10/2015 18:19 Calculation Date: 6/10/2015 18:32

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 67 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun038.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-06 CH2M

Injection Date: 6/10/2015 18:19 Calculation Date: 6/10/2015 18:32

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
M - Missing peak
C - Out of calibration range

Total Unidentified Counts : 12337 counts

Detected Peaks: 7 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 1 microVolts LSB: 1 microVolts

Noise (used): 4 microVolts - monitored before this run

Manual injection

Calib. out of range; No Recovery Action Specified

Revision Log:

6/10/2015 18:32: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 10, Advance Time: 18:18:10

Original Notes:

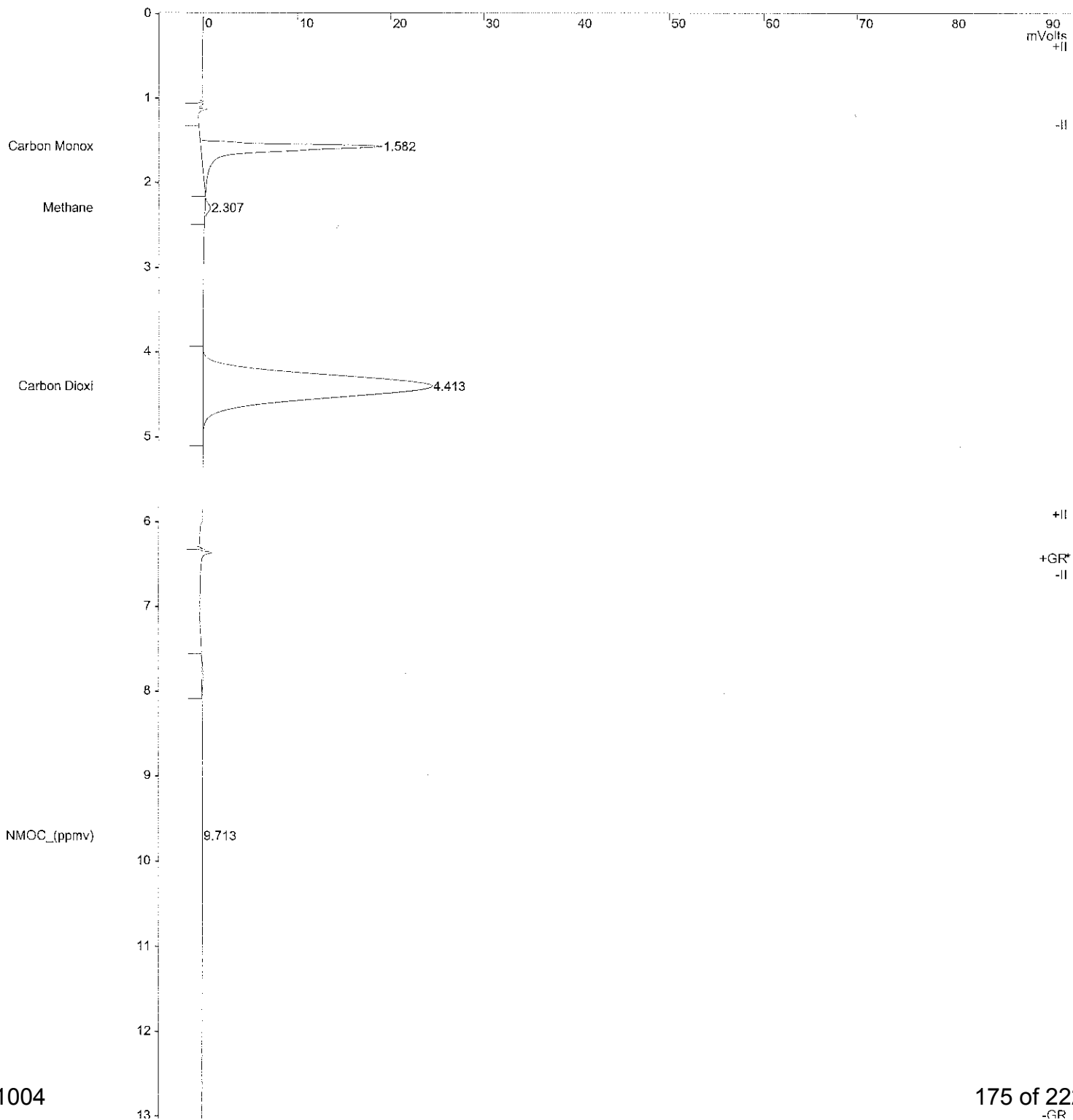
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun038.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-06 CH2M

Injection Date: 6/10/2015 18:19 Calculation Date: 6/10/2015 18:32

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun038.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-06 CH2M

Injection Date: 6/10/2015 18:19 Calculation Date: 6/10/2015 18:32

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, and NMOC_(ppmv).

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -4 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 18:32: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 10, Advance Time: 18:18:10

Original Notes:

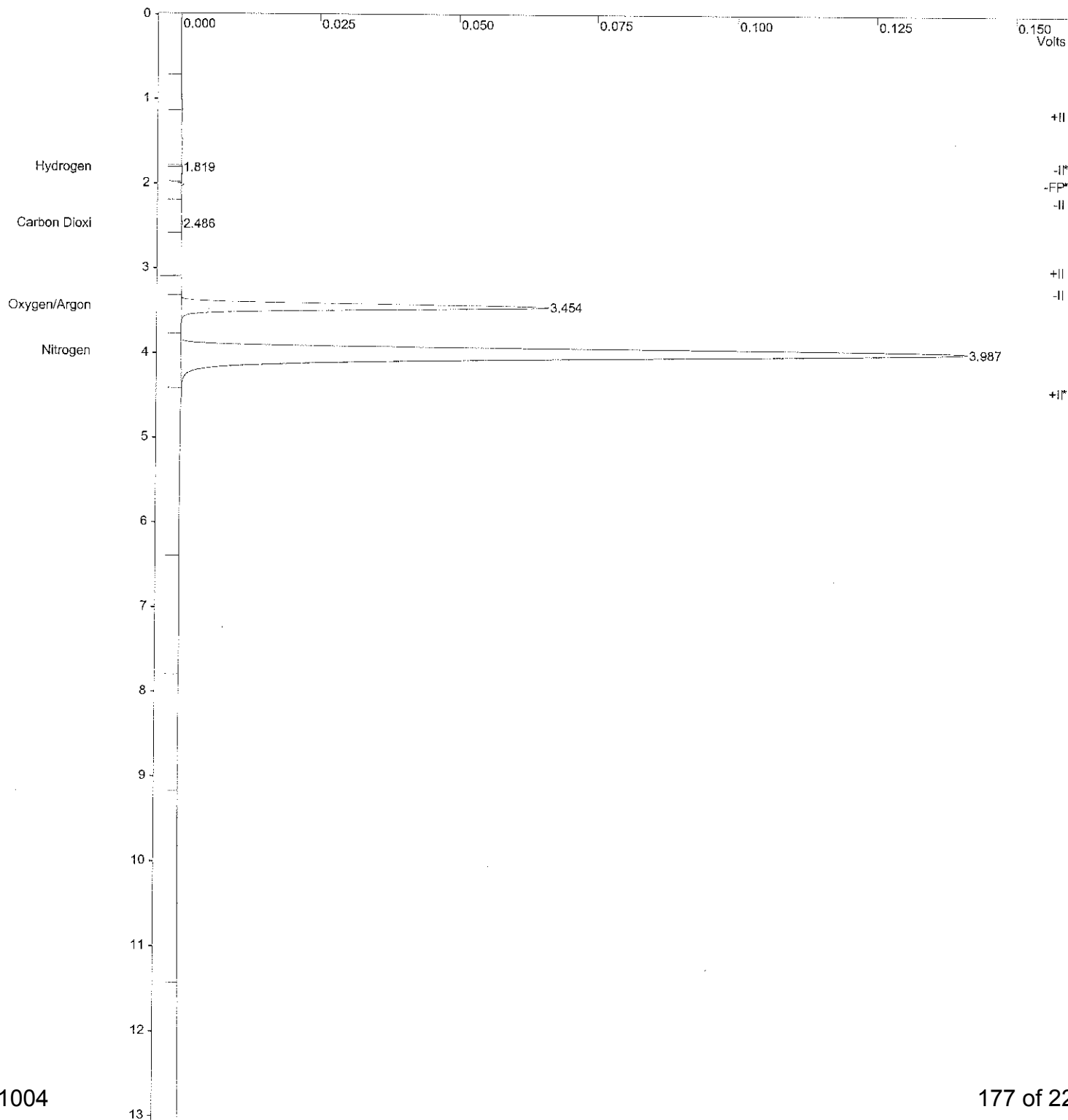
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun039.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-06 CH2M

Injection Date: 6/10/2015 18:34 Calculation Date: 6/10/2015 18:47

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun039.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-06 CH2M

Injection Date: 6/10/2015 18:34 Calculation Date: 6/10/2015 18:47

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
M - Missing peak
C - Out of calibration range

Total Unidentified Counts : 4614 counts

Detected Peaks: 7 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -2 microVolts LSB: 1 microVolts

Noise (used): 5 microVolts - monitored before this run

Manual injection

Calib. out of range; No Recovery Action Specified

Revision Log:

6/10/2015 18:47: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 10, Advance Time: 18:32:45

Original Notes:

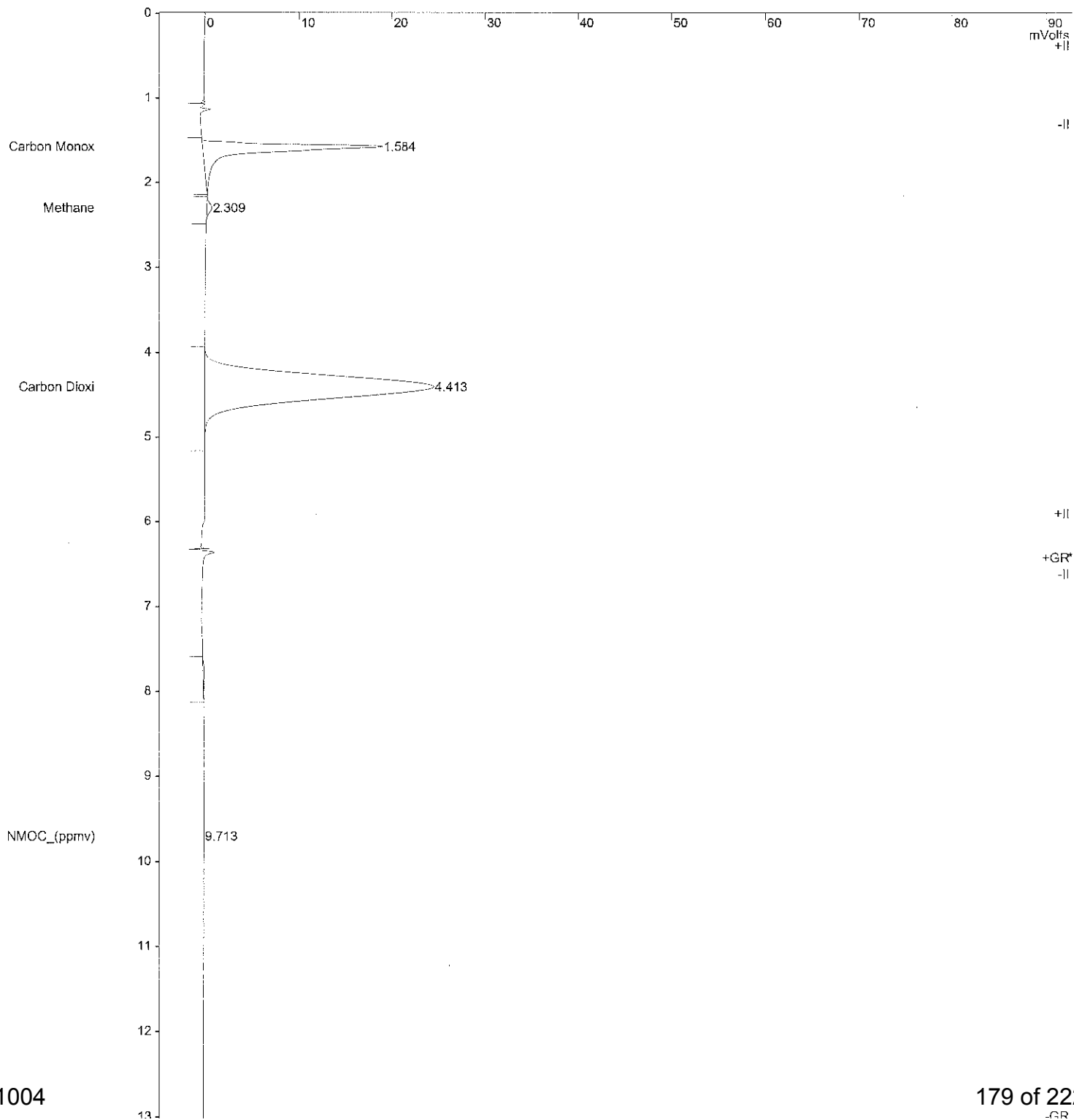
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun039.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-06 CH2M

Injection Date: 6/10/2015 18:34 Calculation Date: 6/10/2015 18:47

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun039.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-06 CH2M

Injection Date: 6/10/2015 18:34 Calculation Date: 6/10/2015 18:47

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC_(ppmv), and Totals.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -12 microVolts LSB: 1 microVolts

Noise (used): 36 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 18:47: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 10, Advance Time: 18:32:45

Original Notes:

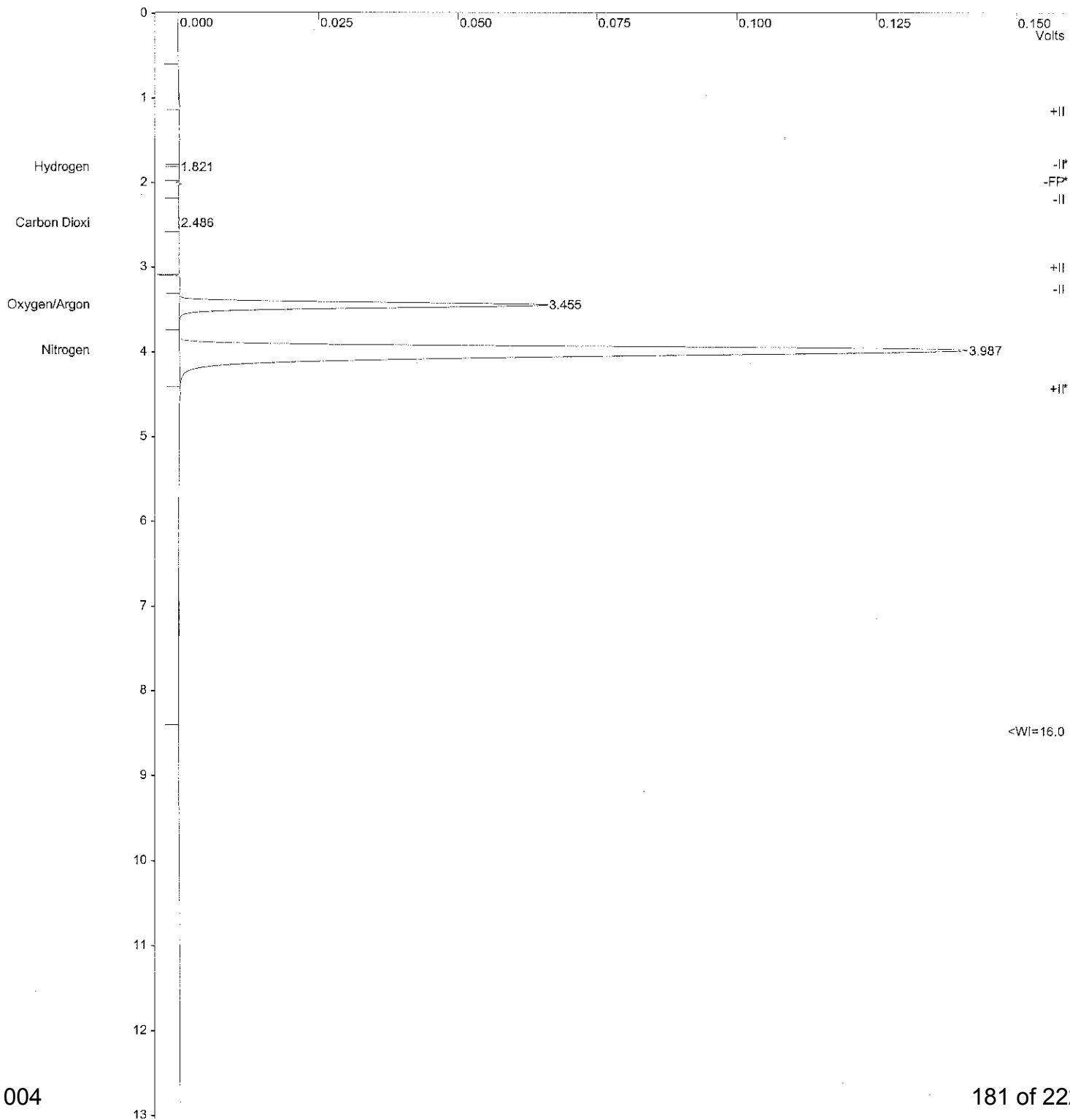
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun040.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-06 CH2M

Injection Date: 6/10/2015 18:49 Calculation Date: 6/10/2015 19:02

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun040.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-06 CH2M

Injection Date: 6/10/2015 18:49 Calculation Date: 6/10/2015 19:02

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
M - Missing peak

Total Unidentified Counts : 5835 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -4 microVolts LSB: 1 microVolts

Noise (used): 4 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 19:02: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 10, Advance Time: 18:47:19

Original Notes:

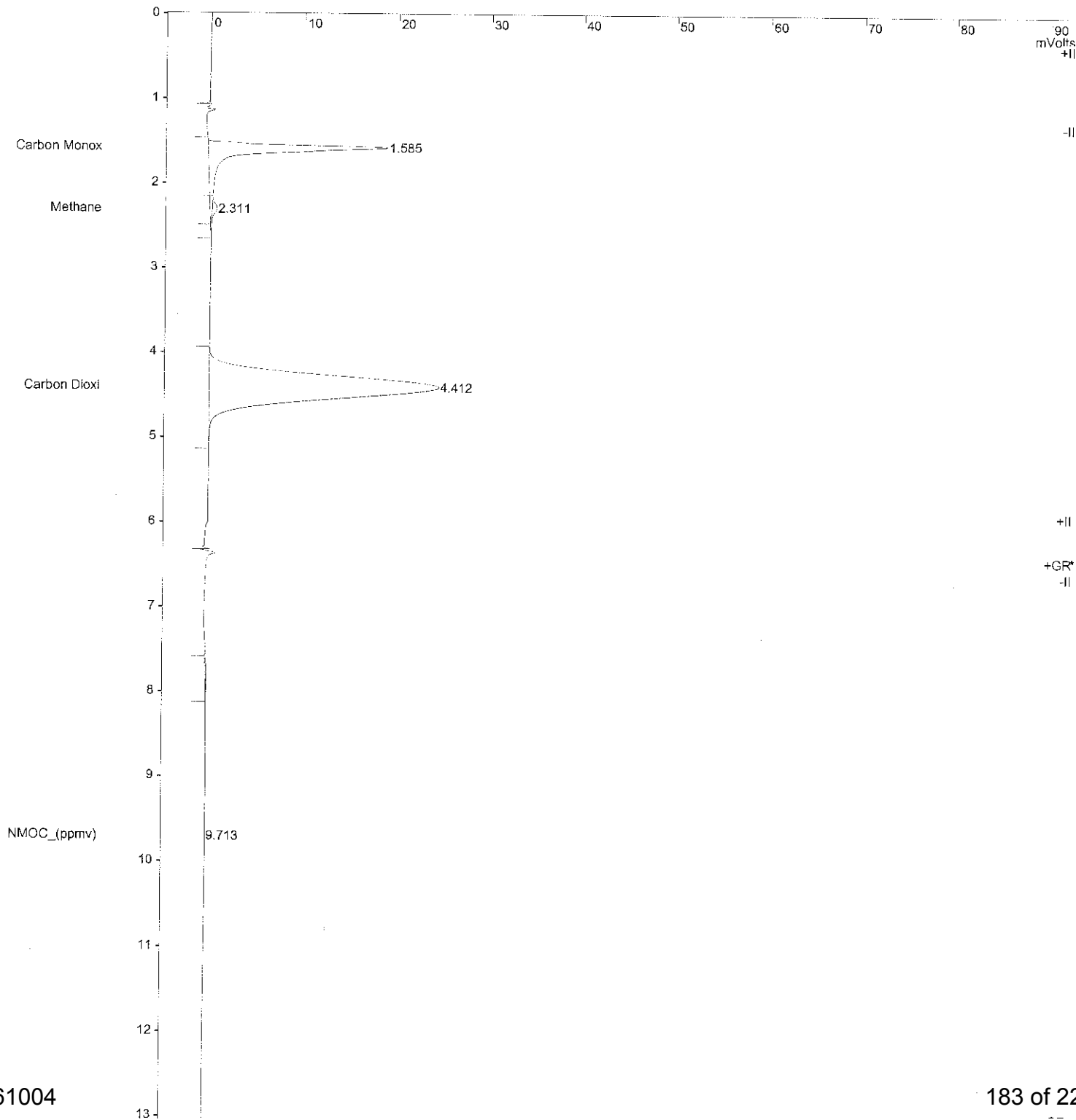
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun040.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-06 CH2M

Injection Date: 6/10/2015 18:49 Calculation Date: 6/10/2015 19:02

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun040.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : G061004-06 CH2M

Injection Date: 6/10/2015 18:49 Calculation Date: 6/10/2015 19:02

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 8 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC_(ppmv), and Totals.

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -76 microVolts LSB: 1 microVolts

Noise (used): 32 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 19:02: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 10, Advance Time: 18:47:19

Original Notes:

3. Initial Calibration

- a. ICAL Summary**
- b. Chromatograms/Results**

Title : Calibration Block Report
 Method File : c:\temp gc\gc8a\methods\nmoc fixed_150105.mth
 Data Method Time : 1/5/2015 13:51
 Requested Curve Type : linear
 Requested Origin : force
 Calibration Type : External Standard Analysis

Method Detector Type : 3800 GC
 Method Bus Address : 44
 Method Channel : Front

Calibration Dates :
 Last Injection Date : 7/10/2014 17:09
 Last Recalculation Date : 7/11/2014 11:00

*****GC Workstation Multi Instrument*****Version 6.30*****

Retention Time (min)	Peak Name	Curve\ Origin	X ³	X ²	X	C	r ²	Cal. Range	No. of Points	Edit Codes
1. 892	Hydrogen	1 F			+2. 2231e+002	+0. 0000e+000	+9. 9841e- 001			Locked
2. 467	Carbon Dioxide	1 F			+1. 7752e+004	+0. 0000e+000	+9. 9844e- 001			Locked
3. 464	Oxygen/Argon	1 F			+1. 3878e+004	+0. 0000e+000	+9. 9961e- 001			Locked
4. 015	Nitrogen	1 F			+1. 4380e+004	+0. 0000e+000	+9. 9954e- 001			Locked
4. 836	Methane	1 F			+1. 2213e+004	+0. 0000e+000	+9. 9862e- 001			Locked

Curve Codes	Origin Codes	Edit Codes
1 linear	I include	1 curve
2 quadratic	IG ignore	2 origin
3 cubic	F force	3 coefficient

Ret. Time: 1.892 min. Locked Peak Measurement: Area
Peak Name: Hydrogen Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	1. 000000	1	292	292. 0	#
2	5. 000000	1	1308	1308. 0	#
3	7. 000000	1	1551	1551. 4	#
4	10. 000000	1	2198	2197. 9	#
5	25. 000000	1	5527	5527. 2	#

Ret. Time: 2.467 min. Locked Peak Measurement: Area
Peak Name: Carbon Dioxide Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	0. 500000	1	8324	8324. 4	#
2	5. 000000	1	88090	88090. 3	#
3	25. 000000	1	378261	378261. 4	#
4	50. 000000	1	881744	881744. 1	#
5	100. 000000	1	1794552	1794552. 3	#

Ret. Time: 3.464 min. Locked Peak Measurement: Area
Peak Name: Oxygen/Argon Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	0. 438000	1	7216	7216. 1	#
2	2. 190000	1	35748	35748. 1	#
3	10. 900000	1	149260	149260. 2	#
4	21. 900000	1	304362	304362. 1	#

Ret. Time: 4.015 min. Locked Peak Measurement: Area
Peak Name: Nitrogen Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	1. 560000	1	28184	28184. 2	#
2	7. 810000	1	133572	133571. 5	#

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G061004

39.099998	1	563979	563979.2	#
78.099998	1	1142245	1142245.4	#
100.000000	1	1420612	1420611.5	#

Ret. Time: 4.836 min.

Locked

Peak Measurement: Area

Curve\Origin: 1 F

Peak Name: Methane

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	0.500000	1	5874	5874.2	#
2	5.000000	1	60923	60923.0	#
3	25.000000	1	263119	263118.7	#
4	50.000000	1	615279	615278.6	#
5	100.000000	1	1229594	1229593.9	#

= Too few points to calculate.

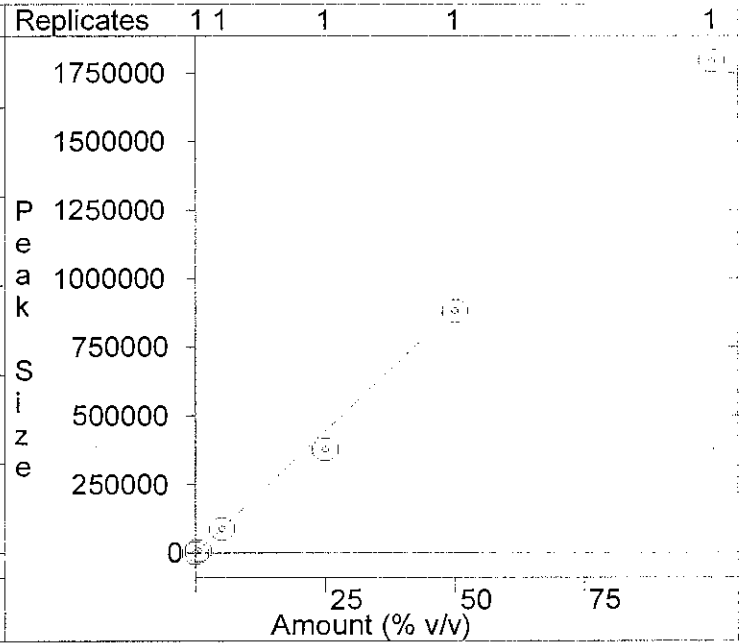
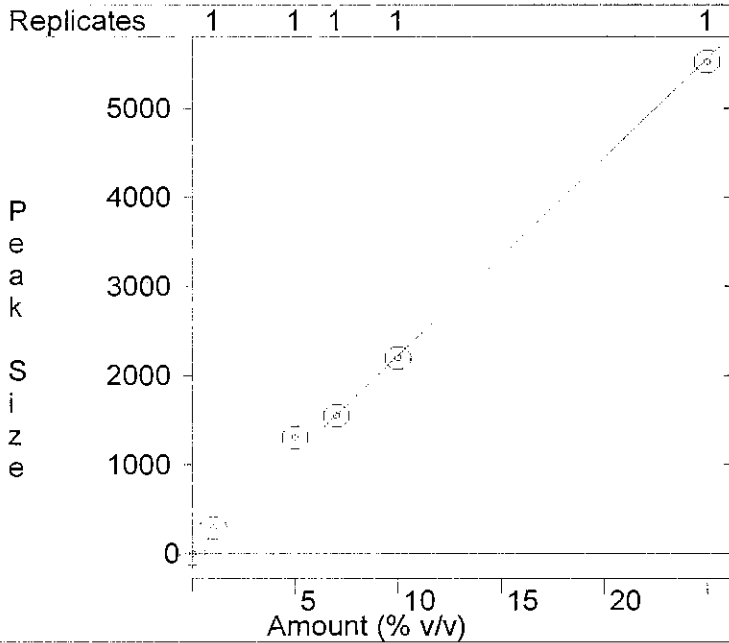
Peak Name	Level	Rep.	Injection Date Time	Run Files
Hydrogen	1 L	1	7/10/2014 11:35	c:\temp gc\gc8a\2014\jul\10jul001.run
	2 L	1	7/10/2014 12:06	c:\temp gc\gc8a\2014\jul\10jul003.run
	3 L	1	7/10/2014 12:36	c:\temp gc\gc8a\2014\jul\10jul005.run
	4 L	1	7/10/2014 13:05	c:\temp gc\gc8a\2014\jul\10jul007.run
	5 L	1	7/10/2014 14:18	c:\temp gc\gc8a\2014\jul\10jul012.run
Carbon Dioxide	1 L	1	7/10/2014 17:09	c:\temp gc\gc8a\2014\jul\10jul020.run
	2 L	1	7/10/2014 12:06	c:\temp gc\gc8a\2014\jul\10jul003.run
	3 L	1	7/10/2014 12:36	c:\temp gc\gc8a\2014\jul\10jul005.run
	4 L	1	7/10/2014 13:19	c:\temp gc\gc8a\2014\jul\10jul008.run
	5 L	1	7/10/2014 14:03	c:\temp gc\gc8a\2014\jul\10jul011.run
Oxygen/Argon	1 L	1	7/10/2014 15:37	c:\temp gc\gc8a\2014\jul\10jul014.run
	2 L	1	7/10/2014 11:52	c:\temp gc\gc8a\2014\jul\10jul002.run
	3 L	1	7/10/2014 12:21	c:\temp gc\gc8a\2014\jul\10jul004.run
	4 L	1	7/10/2014 12:50	c:\temp gc\gc8a\2014\jul\10jul006.run
Nitrogen	1 L	1	7/10/2014 15:37	c:\temp gc\gc8a\2014\jul\10jul014.run
	2 L	1	7/10/2014 11:52	c:\temp gc\gc8a\2014\jul\10jul002.run
	3 L	1	7/10/2014 12:21	c:\temp gc\gc8a\2014\jul\10jul004.run
	4 L	1	7/10/2014 12:50	c:\temp gc\gc8a\2014\jul\10jul006.run
	5 L	1	7/10/2014 13:34	c:\temp gc\gc8a\2014\jul\10jul009.run
Methane	1 L	1	7/10/2014 17:09	c:\temp gc\gc8a\2014\jul\10jul020.run
	2 L	1	7/10/2014 12:06	c:\temp gc\gc8a\2014\jul\10jul003.run
	3 L	1	7/10/2014 12:36	c:\temp gc\gc8a\2014\jul\10jul005.run
	4 L	1	7/10/2014 13:19	c:\temp gc\gc8a\2014\jul\10jul008.run
	5 L	1	7/10/2014 13:48	c:\temp gc\gc8a\2014\jul\10jul010.run

L = Locked Coefficients

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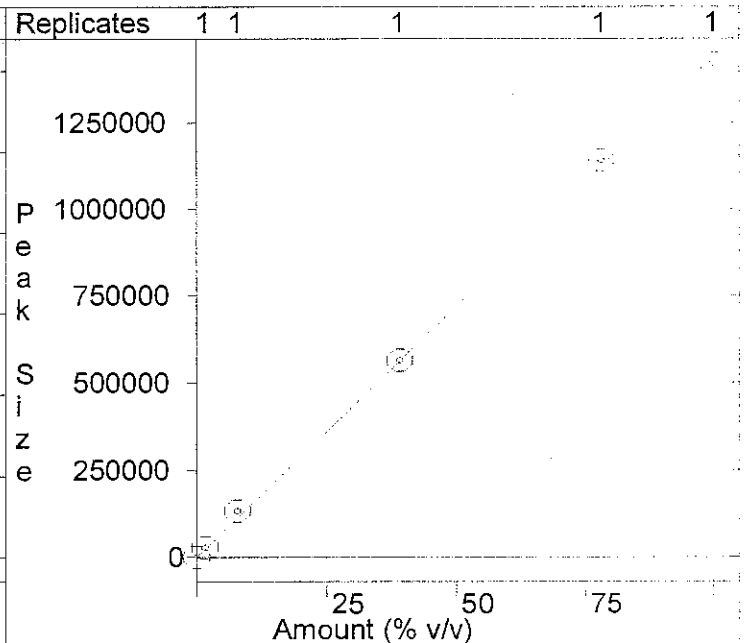
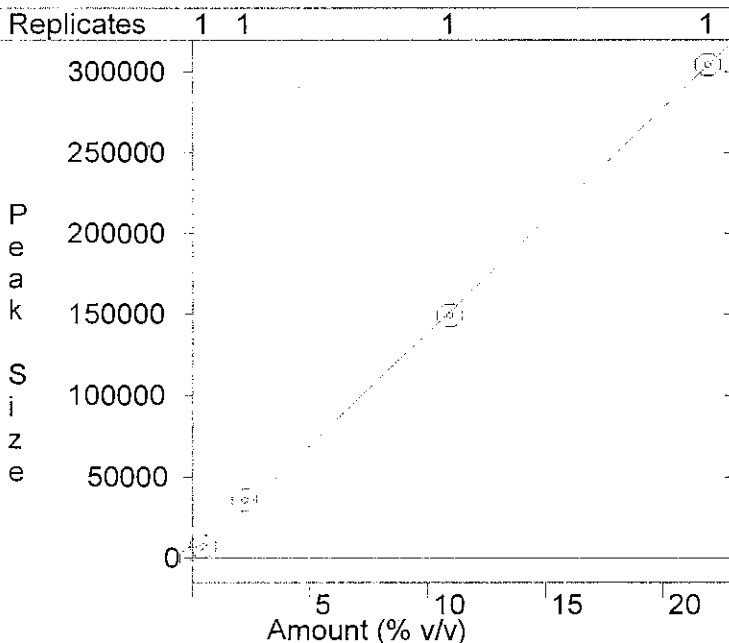
Hydrogen
 External Standard Analysis - Locked
 Resp. Fact. RSD: 13.35%
 Curve Type: Linear
 Origin: Force
 Coeff. Det.(r²): 0.998414
 y = +2.2231e+002x

Carbon Dioxide
 External Standard Analysis - Locked
 Resp. Fact. RSD: 6.771%
 Curve Type: Linear
 Origin: Force
 Coeff. Det.(r²): 0.998437
 y = +1.7752e+004x

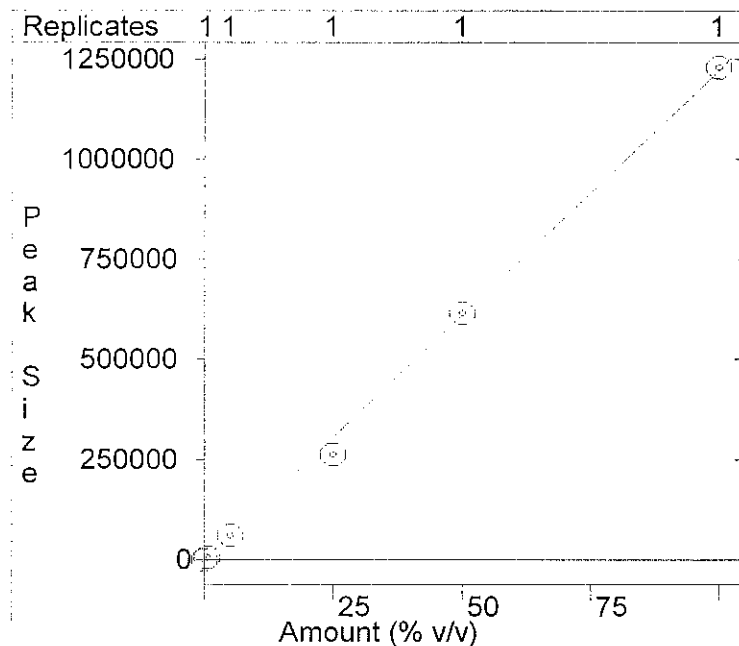


Oxygen/Argon
 External Standard Analysis - Locked
 Resp. Fact. RSD: 9.980%
 Curve Type: Linear
 Origin: Force
 Coeff. Det.(r²): 0.999613
 y = +1.3878e+004x

Nitrogen
 External Standard Analysis - Locked
 Resp. Fact. RSD: 11.31%
 Curve Type: Linear
 Origin: Force
 Coeff. Det.(r²): 0.999538
 y = +1.4380e+004x



Methane
External Standard Analysis - Locked
Resp. Fact. RSD: 6.389%
Curve Type: Linear
Origin: Force
Coeff. Det.(r²): 0.998621
y = +1.2213e+004x



Title : Calibration Block Report
 Method File : c:\temp gc\gc8a\methods\nmoc fixed_150105.mth
 Data Method Time : 1/5/2015 13:51
 Requested Curve Type : linear
 Requested Origin : force
 Calibration Type : External Standard Analysis

Method Detector Type : 3800 GC
 Method Bus Address : 44
 Method Channel : Middle

Calibration Dates :
 Last Injection Date : 1/5/2015 12:09
 Last Recalculation Date : 1/5/2015 12:24

*****GC Workstation Multi Instrument*****Version 6.30*****

Retention Time (min)	Peak Name	Curve\ Origin	X ³	X ²	X	C	r ²	Cal. Range	No. of Points	Edit Codes
1.714	Carbon Monoxide	1 F			+9.4964e+006	+0.0000e+000	+9.9991e-001	Locked		
2.249	Methane	1 F			+1.0118e+007	+0.0000e+000	+9.9991e-001	Locked		
4.275	Carbon Dioxide	1 F			+9.8750e+006	+0.0000e+000	+9.9998e-001	Locked		
9.713	NMOC_(ppmv)	1 F			+1.0136e+003	+0.0000e+000	+9.9996e-001	Locked		

Curve Codes	Origin Codes	Edit Codes
1 linear	I include	1 curve
2 quadratic	IG ignore	2 origin
3 cubic	F force	3 coefficient

Ret. Time: 1.714 min. Locked Peak Measurement: Area
Peak Name: Carbon Monoxide Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	0.000100	1	984	983.7	#
2	0.001000	1	10324	10323.6	#
3	0.010000	1	89972	89972.1	#
4	0.100000	1	912587	912587.1	#
5	0.500000	1	4673935	4673934.5	#
6	1.000000	1	9537256	9537256.0	#

Ret. Time: 2.249 min. Locked Peak Measurement: Area
Peak Name: Methane Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	0.000100	1	1144	1143.7	#
2	0.001000	1	11243	11243.2	#
3	0.010000	1	129933	129933.1	#
4	0.100000	1	977258	977257.9	#
5	0.500000	1	4989121	4989120.5	#
6	1.000000	1	10156653	10156653.0	#

Ret. Time: 4.275 min. Locked Peak Measurement: Area
Peak Name: Carbon Dioxide Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
2	0.001000	1	12596	12595.5	#
3	0.010000	1	99180	99179.7	#
4	0.100000	1	949577	949576.5	#
5	0.500000	1	4911645	4911645.0	#
6	1.000000	1	9891675	9891675.0	#

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Ret. Time: 9.713 min.

Peak Name: NMOC_(ppmv)

Locked

Peak Measurement: Area

Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	29.969999	1	31277		
1	29.969999	2	31095		
1	29.969999	3	30961	31110.9	158.54
2	299.700012	1	295364		
2	299.700012	2	295218		
2	299.700012	3	295920	295500.8	370.38
3	2997.000000	1	3090523		
3	2997.000000	2	3082580		
3	2997.000000	3	3092984	3088695.5	5437.01
4	9999.000000	1	10138043		
4	9999.000000	2	10105591		
4	9999.000000	3	10115994	10119876.0	16570.62

= Too few points to calculate.

Peak Name	Level	Rep.	Injection Date Time	Run Files
Carbon Monoxide	1 L	1	7/11/2014 13:38	c:\temp gc\gc8a\2014\jul\10jul022.run
	2 L	1	7/11/2014 14:04	c:\temp gc\gc8a\2014\jul\10jul023.run
	3 L	1	7/10/2014 16:40	c:\temp gc\gc8a\2014\jul\10jul018.run
	4 L	1	7/10/2014 16:25	c:\temp gc\gc8a\2014\jul\10jul017.run
	5 L	1	7/10/2014 16:11	c:\temp gc\gc8a\2014\jul\10jul016.run
	6 L	1	7/10/2014 15:55	c:\temp gc\gc8a\2014\jul\10jul015.run
Methane	1 L	1	7/11/2014 13:38	c:\temp gc\gc8a\2014\jul\10jul022.run
	2 L	1	7/11/2014 14:04	c:\temp gc\gc8a\2014\jul\10jul023.run
	3 L	1	7/10/2014 16:40	c:\temp gc\gc8a\2014\jul\10jul018.run
	4 L	1	7/10/2014 16:25	c:\temp gc\gc8a\2014\jul\10jul017.run
	5 L	1	7/10/2014 16:11	c:\temp gc\gc8a\2014\jul\10jul016.run
	6 L	1	7/10/2014 15:55	c:\temp gc\gc8a\2014\jul\10jul015.run
Carbon Dioxide	2 L	1	7/11/2014 14:04	c:\temp gc\gc8a\2014\jul\10jul023.run
	3 L	1	7/10/2014 16:40	c:\temp gc\gc8a\2014\jul\10jul018.run
	4 L	1	7/10/2014 16:25	c:\temp gc\gc8a\2014\jul\10jul017.run
	5 L	1	7/10/2014 16:11	c:\temp gc\gc8a\2014\jul\10jul016.run
	6 L	1	7/10/2014 15:55	c:\temp gc\gc8a\2014\jul\10jul015.run
	NMOC_(ppmv)	1 L	1	1/5/2015 09:15
1 L		2	1/5/2015 09:30	c:\temp gc\gc8a\2015\jan\05jan003.run
1 L		3	1/5/2015 09:47	c:\temp gc\gc8a\2015\jan\05jan004.run
2 L		1	1/5/2015 10:05	c:\temp gc\gc8a\2015\jan\05jan005.run
2 L		2	1/5/2015 10:20	c:\temp gc\gc8a\2015\jan\05jan006.run
2 L		3	1/5/2015 10:35	c:\temp gc\gc8a\2015\jan\05jan007.run
3 L		1	1/5/2015 10:53	c:\temp gc\gc8a\2015\jan\05jan008.run
3 L		2	1/5/2015 11:08	c:\temp gc\gc8a\2015\jan\05jan009.run
3 L		3	1/5/2015 11:22	c:\temp gc\gc8a\2015\jan\05jan010.run
4 L		1	1/5/2015 11:40	c:\temp gc\gc8a\2015\jan\05jan011.run
4 L		2	1/5/2015 11:55	c:\temp gc\gc8a\2015\jan\05jan012.run
4 L		3	1/5/2015 12:09	c:\temp gc\gc8a\2015\jan\05jan013.run

L = Locked Coefficients

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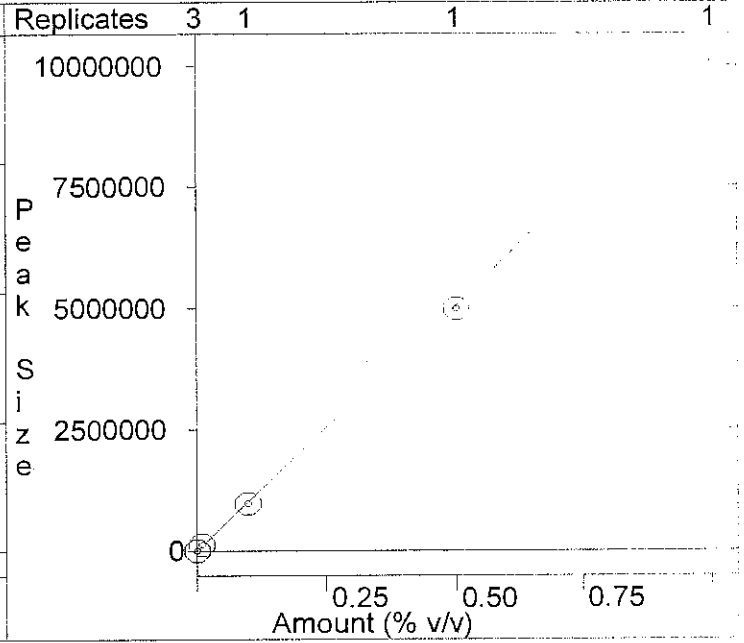
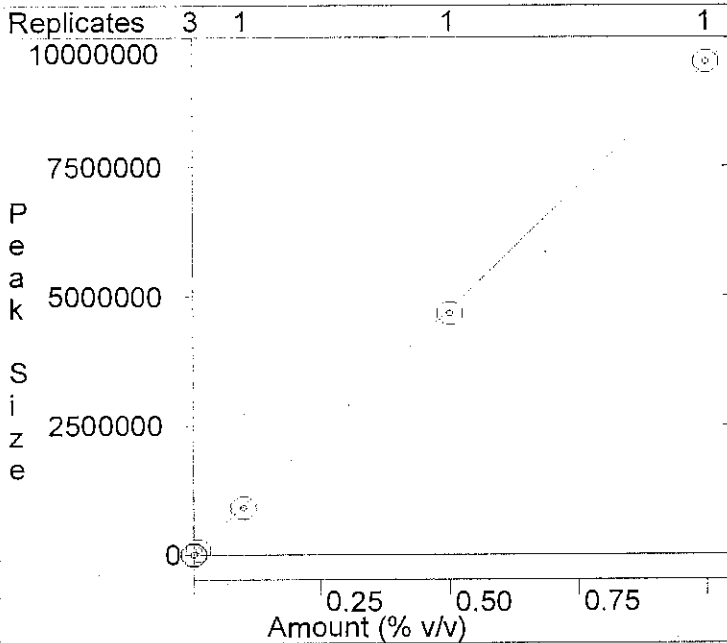
Calibration Curves Report

File: c:\temp gclgc8a\methods\nmoc fixed_150105.mth

Detector: 3800 GC, Address: 44, Channel ID: Middle

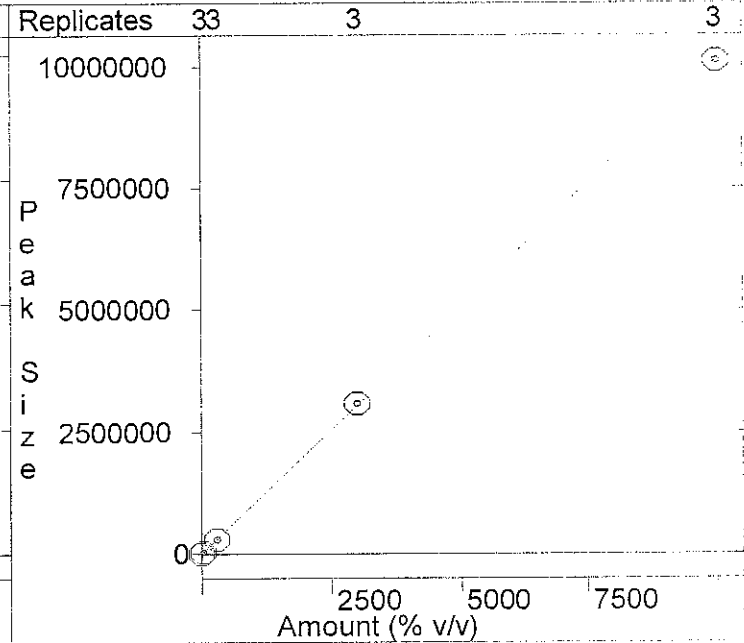
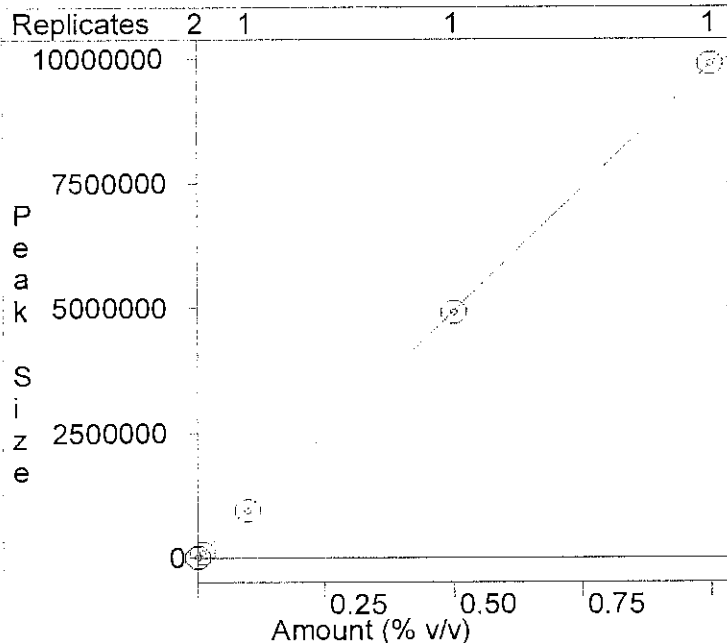
Carbon Monoxide
External Standard Analysis - Locked
Resp. Fact. RSD: 5.150%
Curve Type: Linear
Origin: Force
Coeff. Det.(r²): 0.999907
y = +9.4964e+006x

Methane
External Standard Analysis - Locked
Resp. Fact. RSD: 11.17%
Curve Type: Linear
Origin: Force
Coeff. Det.(r²): 0.999911
y = +1.0118e+007x



Carbon Dioxide
External Standard Analysis - Locked
Resp. Fact. RSD: 12.27%
Curve Type: Linear
Origin: Force
Coeff. Det.(r²): 0.999976
y = +9.8750e+006x

NMOC_(ppmv)
External Standard Analysis - Locked
Resp. Fact. RSD: 2.281%
Curve Type: Linear
Origin: Force
Coeff. Det.(r²): 0.999960
y = +1.0136e+003x



4. Continuing Calibration

- a. CCAL Summary
- b. Chromatograms/Results

Continuing Calibration Criteria:

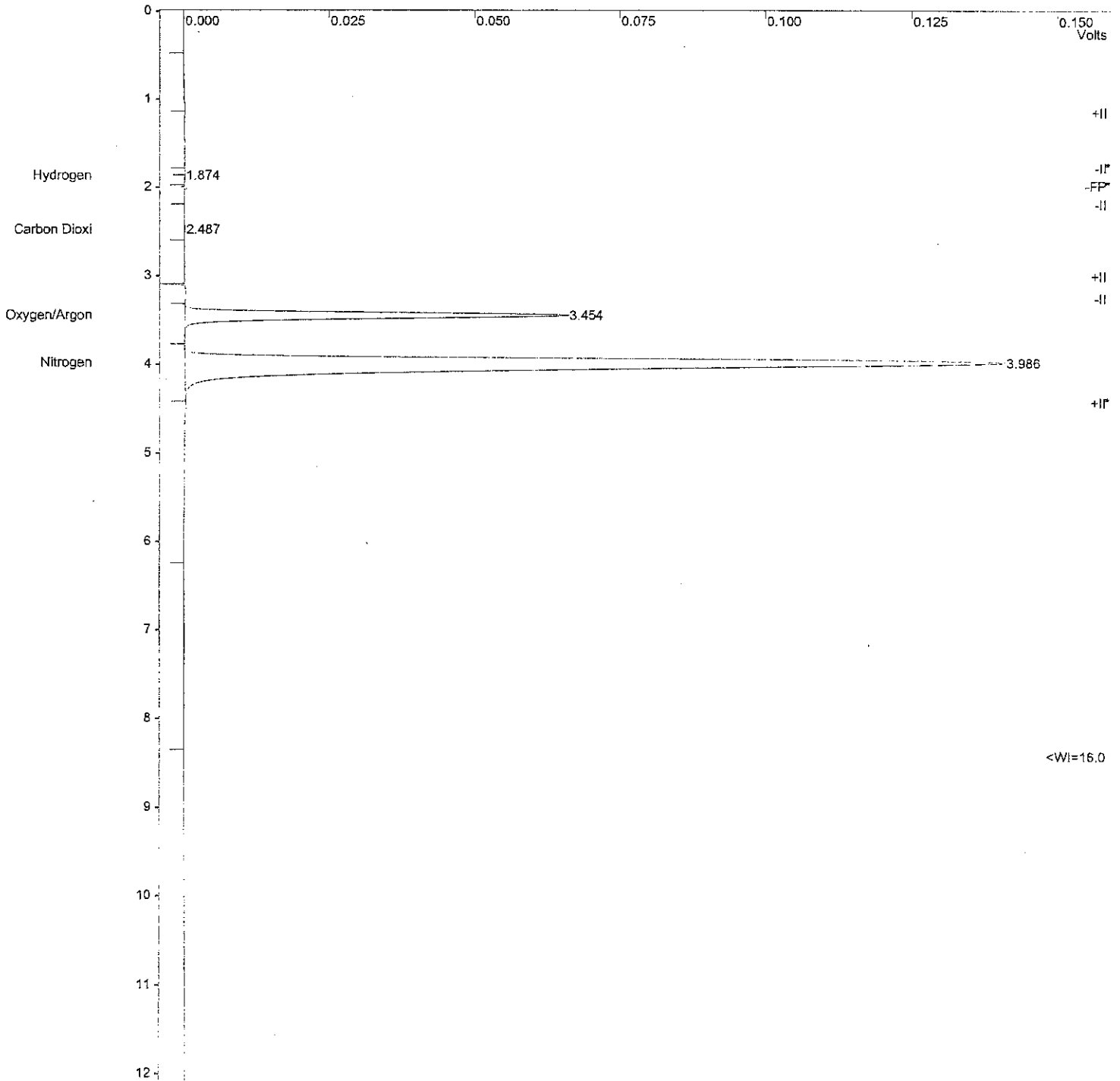
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\09jun058.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : O2 N2 CCV

Injection Date: 6/9/2015 22:55 Calculation Date: 6/9/2015 23:08

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.087 min Min / Tick = 1.00



Verification Report

Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\09jun058.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : O2 N2 CCV

Injection Date: 6/9/2015 22:55 Calculation Date: 6/9/2015 23:08

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 4
Tolerance : 25.0%

Table with 8 columns: Peak No., Peak Name, Expected Result (% v/v), Calculated Result (% v/v), Dev. %, Ret. Time (min), Time Offset (min), Area (counts), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
V - Out of verification tolerance
M - Missing peak

Total Unidentified Counts : 6456 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -19 microVolts LSB: 1 microVolts

Noise (used): 4 microVolts - monitored before this run

Manual injection

Verification Failure; No Recovery Action Specified

Revision Log:

6/9/2015 23:08: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 6, Advance Time: 22:53:25

Original Notes:

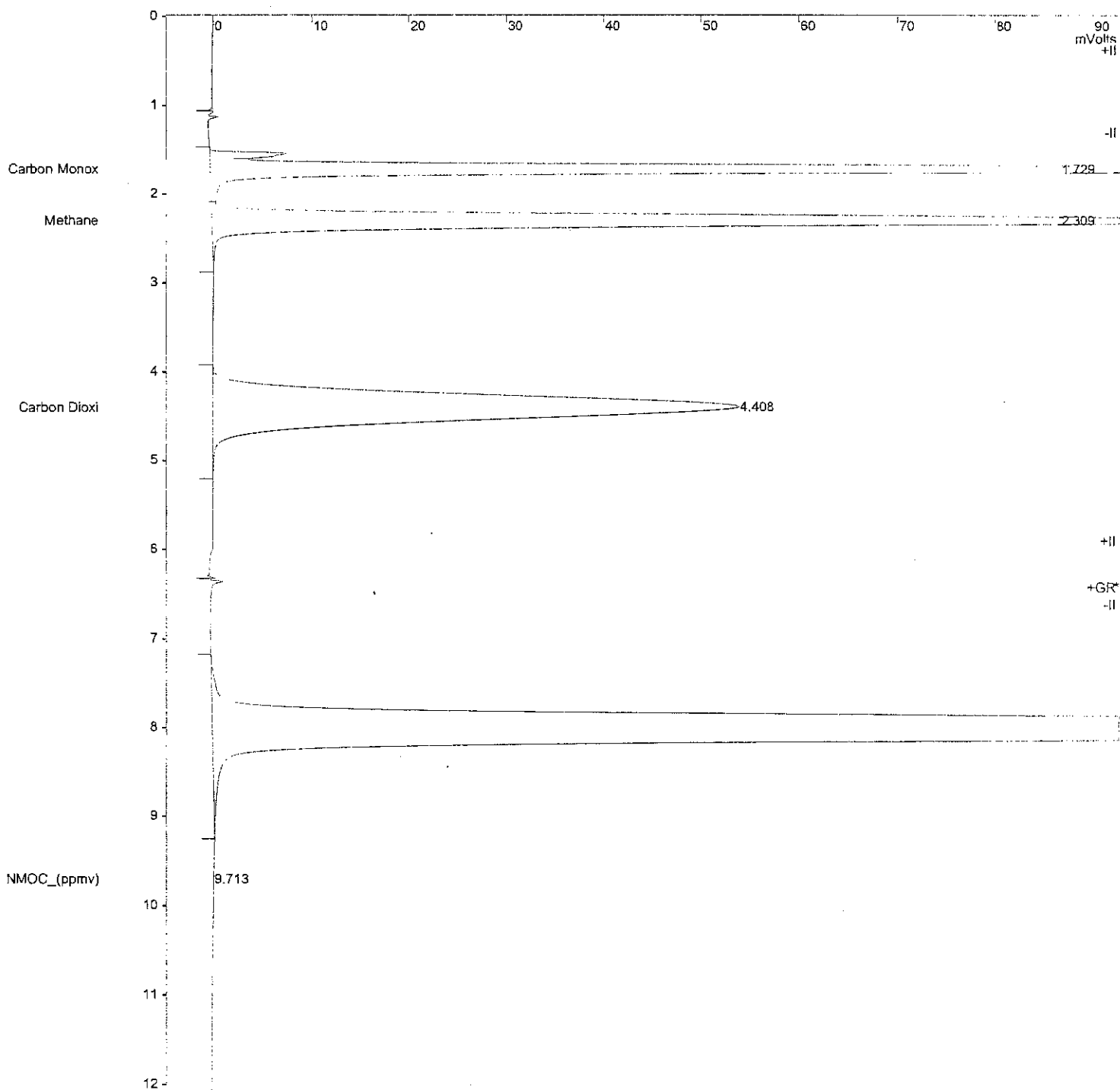
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\09jun059.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 0.1% CH4 CO2 CO

Injection Date: 6/9/2015 23:09 Calculation Date: 6/9/2015 23:22

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Verification Report

Title : Fixed Gas from FID/NMOC
 Run File : c:\temp gc\gc8a\2015\jun\09jun059.run
 Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
 Sample ID : 0.1% CH4 CO2 CO

Injection Date: 6/9/2015 23:09 Calculation Date: 6/9/2015 23:22

Operator : AS Detector Type: 3800 (10 Volts)
 Workstation: Bus Address : 44
 Instrument : GC8A Sample Rate : 10.00 Hz
 Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level : 4
 Tolerance : 25.0%

Peak No.	Peak Name	Expected Result (% v/v)	Calculated Result (% v/v)	Dev. %	Ret. Time (min)	Time Offset (min)	Area (counts)	Status Codes
1	Carbon Monox	0.100000	0.093964	6.0	1.729	0.015	892318	
2	Methane	0.100000	0.093176	6.8	2.309	0.060	942796	
3	Carbon Dioxi	0.100000	0.101910	1.9	4.408	0.133	1006362	
4	NMOC_(ppmv)	9999.00000	5211.27002	47.9	9.713	0.000	5282101	V
Totals:			5211.55907			0.208	8123577	

Status Codes:
 V - Out of verification tolerance

Total Unidentified Counts : 31080 counts

Detected Peaks: 5 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -25 microVolts LSB: 1 microVolts

Noise (used): 33 microVolts - monitored before this run

Manual injection

Verification Failure; No Recovery Action Specified

Revision Log:

6/9/2015 23:22: Calculated results from channel Middle using method:
 'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
 Stream: 1, Advance Time: 23:08:00

Original Notes:

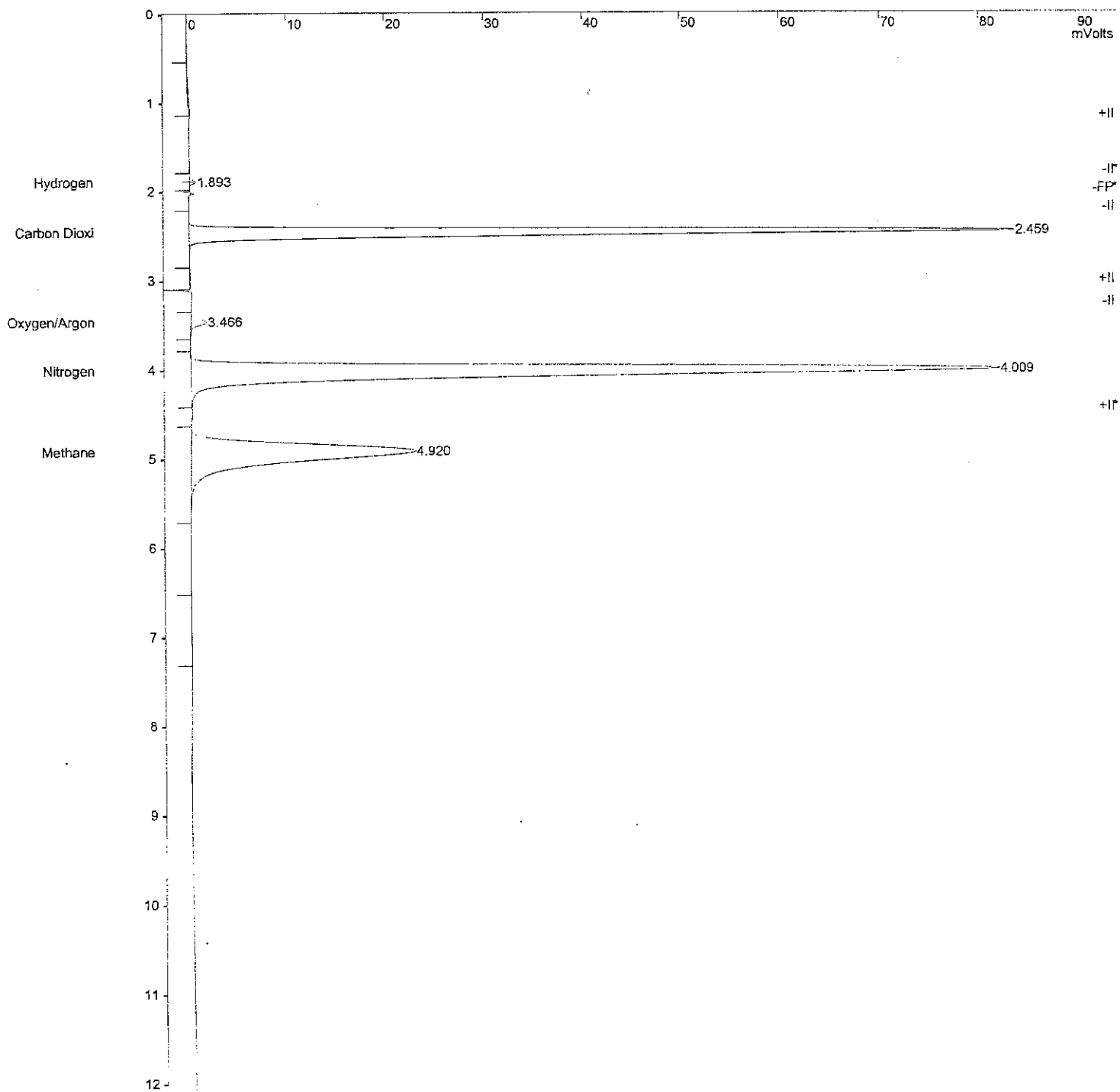
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\09jun060.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 25% CH4 CO2 7% H2

Injection Date: 6/9/2015 23:24 Calculation Date: 6/9/2015 23:37

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 39 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Verification Report

Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\09jun060.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 25% CH4 CO2 7% H2

Injection Date: 6/9/2015 23:24 Calculation Date: 6/9/2015 23:37

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 3
Tolerance : 25.0%

Table with 8 columns: Peak No., Peak Name, Expected Result (% v/v), Calculated Result (% v/v), Dev. %, Ret. Time (min), Time Offset (min), Area (counts), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and Totals.

Status Codes:
V - Out of verification tolerance

Total Unidentified Counts : 827 counts

Detected Peaks: 7 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -15 microVolts LSB: 1 microVolts

Noise (used): 6 microVolts - monitored before this run

Manual injection

Verification Failure; No Recovery Action Specified

Revision Log:

6/9/2015 23:37: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 2, Advance Time: 23:22:36

Original Notes:

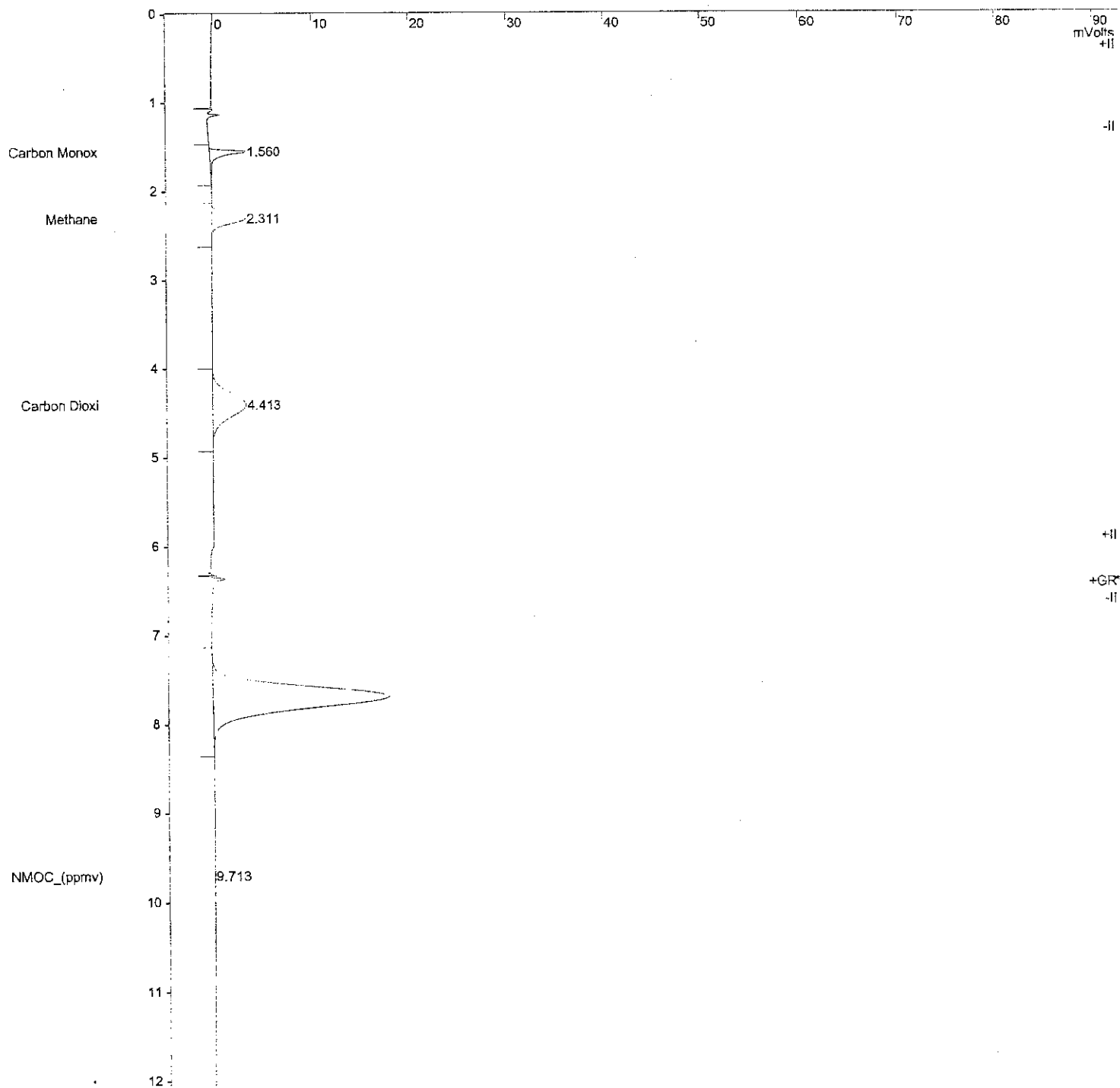
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\09jun061.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 300 ppmv nmoc

Injection Date: 6/9/2015 23:38 Calculation Date: 6/9/2015 23:51

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Verification Report

Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\09jun061.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 300 ppmv nmoc

Injection Date: 6/9/2015 23:38 Calculation Date: 6/9/2015 23:51

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 2
Tolerance : 25.0%

Table with 8 columns: Peak No., Peak Name, Expected Result (% v/v), Calculated Result (% v/v), Dev. %, Ret. Time (min), Time Offset (min), Area (counts), Status Codes. Contains 4 rows of peak data and a Totals row.

Status Codes:
V - Out of verification tolerance

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -73 microVolts LSB: 1 microVolts

Noise (used): 26 microVolts - monitored before this run

Manual injection

Verification Failure; No Recovery Action Specified

Revision Log:

6/9/2015 23:51: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 3, Advance Time: 23:37:12

Original Notes:

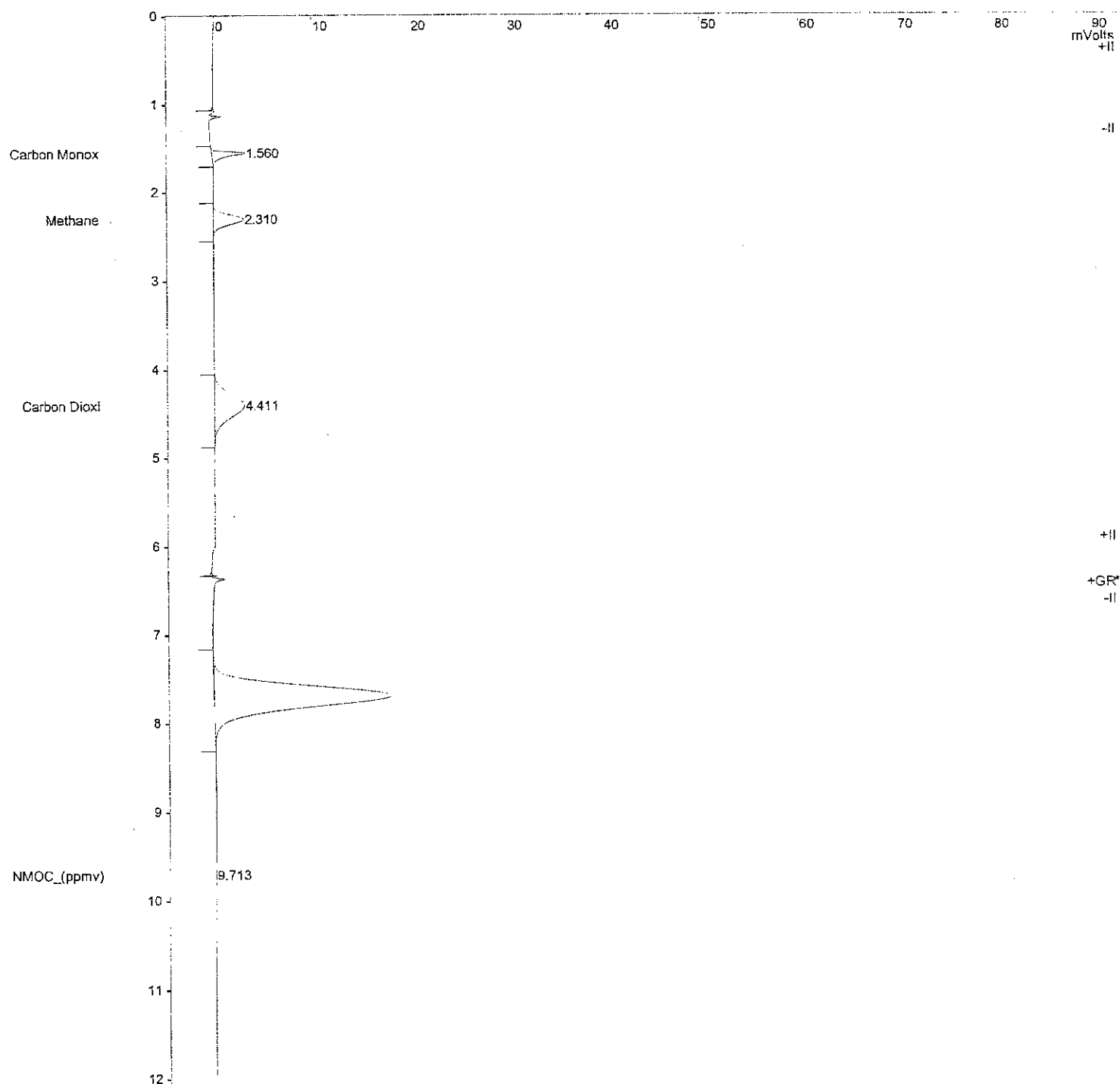
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\09jun062.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 300 ppmv nmoc

Injection Date: 6/9/2015 23:53 Calculation Date: 6/10/2015 00:06

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.087 min Min / Tick = 1.00



Verification Report

Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\09jun062.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 300 ppmv nmoc

Injection Date: 6/9/2015 23:53 Calculation Date: 6/10/2015 00:06

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 2
Tolerance : 25.0%

Table with 9 columns: Peak No., Peak Name, Expected Result (% v/v), Calculated Result (% v/v), Dev. %, Ret. Time (min), Time Offset (min), Area (counts), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, and NMOC_(ppmv).

Status Codes:
V - Out of verification tolerance

Total Unidentified Counts : 0 counts
Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
Baseline Offset: 3 microVolts LSB: 1 microVolts

Noise (used): 23 microVolts - monitored before this run

Manual injection

Verification Failure; No Recovery Action Specified

Revision Log:

6/10/2015 00:06: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 3, Advance Time: 23:51:49

Original Notes:

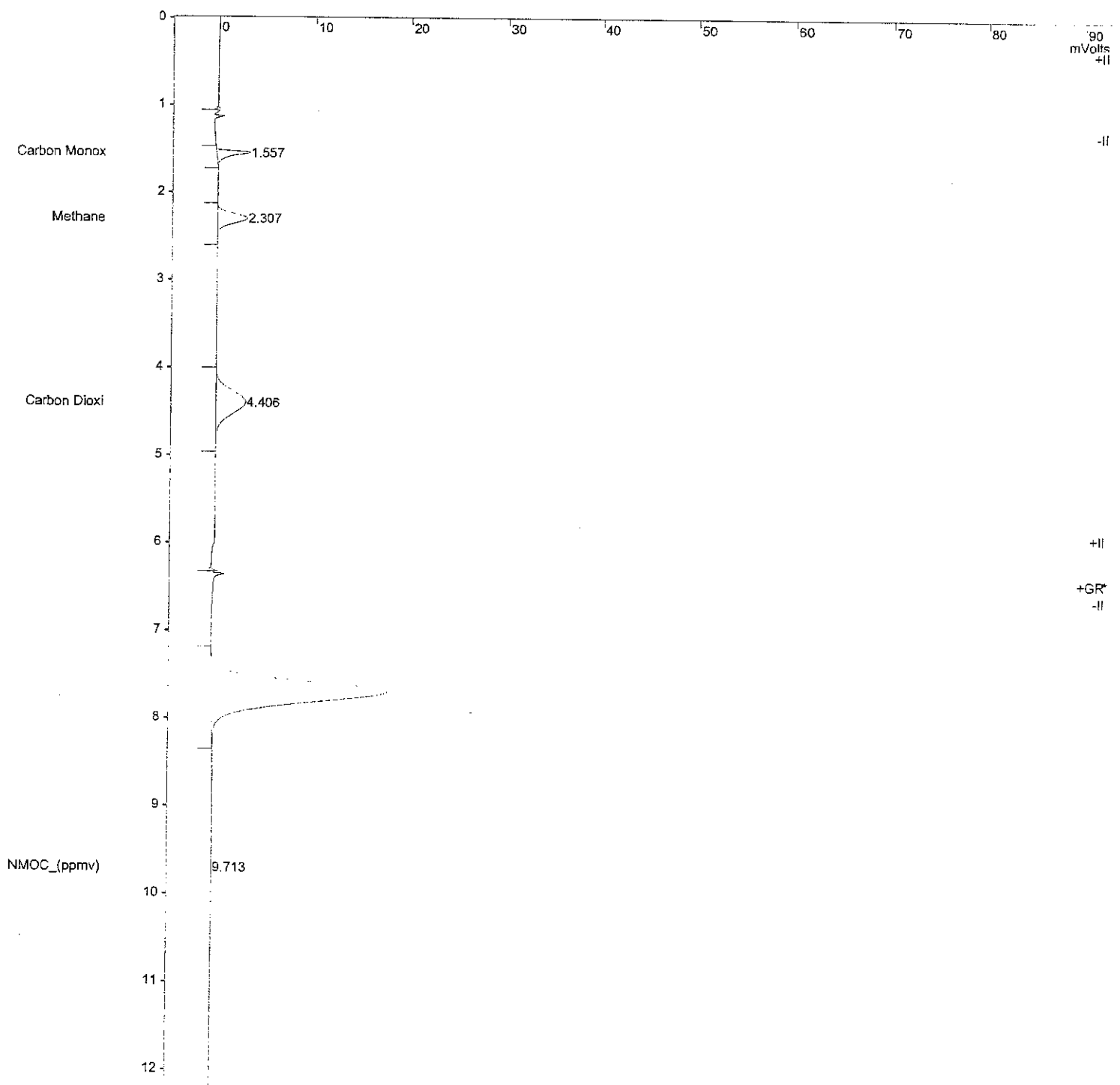
Title : Fixed Gas from FID/NMOC
 Run File : c:\temp gc\gc8a\2015\jun\09jun063.run
 Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
 Sample ID : 300 ppmv nmoc

Injection Date: 6/10/2015 00:08 Calculation Date: 6/10/2015 00:21

Operator : AS Detector Type: 3800 (10 Volts)
 Workstation: Bus Address : 44
 Instrument : GC8A Sample Rate : 10.00 Hz
 Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
 Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Verification Report

Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\09jun063.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 300 ppmv nmoc

Injection Date: 6/10/2015 00:08 Calculation Date: 6/10/2015 00:21

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 2
Tolerance : 25.0%

Table with 9 columns: Peak No., Peak Name, Expected Result (% v/v), Calculated Result (% v/v), Dev. %, Ret. Time (min), Time Offset (min), Area (counts), Status Codes. Contains 4 rows of peak data and a Totals row.

Status Codes:
V - Out of verification tolerance

Total Unidentified Counts : 0 counts
Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
Baseline Offset: -21 microVolts LSB: 1 microVolts

Noise (used): 24 microVolts - monitored before this run

Manual injection

Verification Failure; No Recovery Action Specified

Revision Log:

6/10/2015 00:21: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 3, Advance Time: 00:06:24

Original Notes:

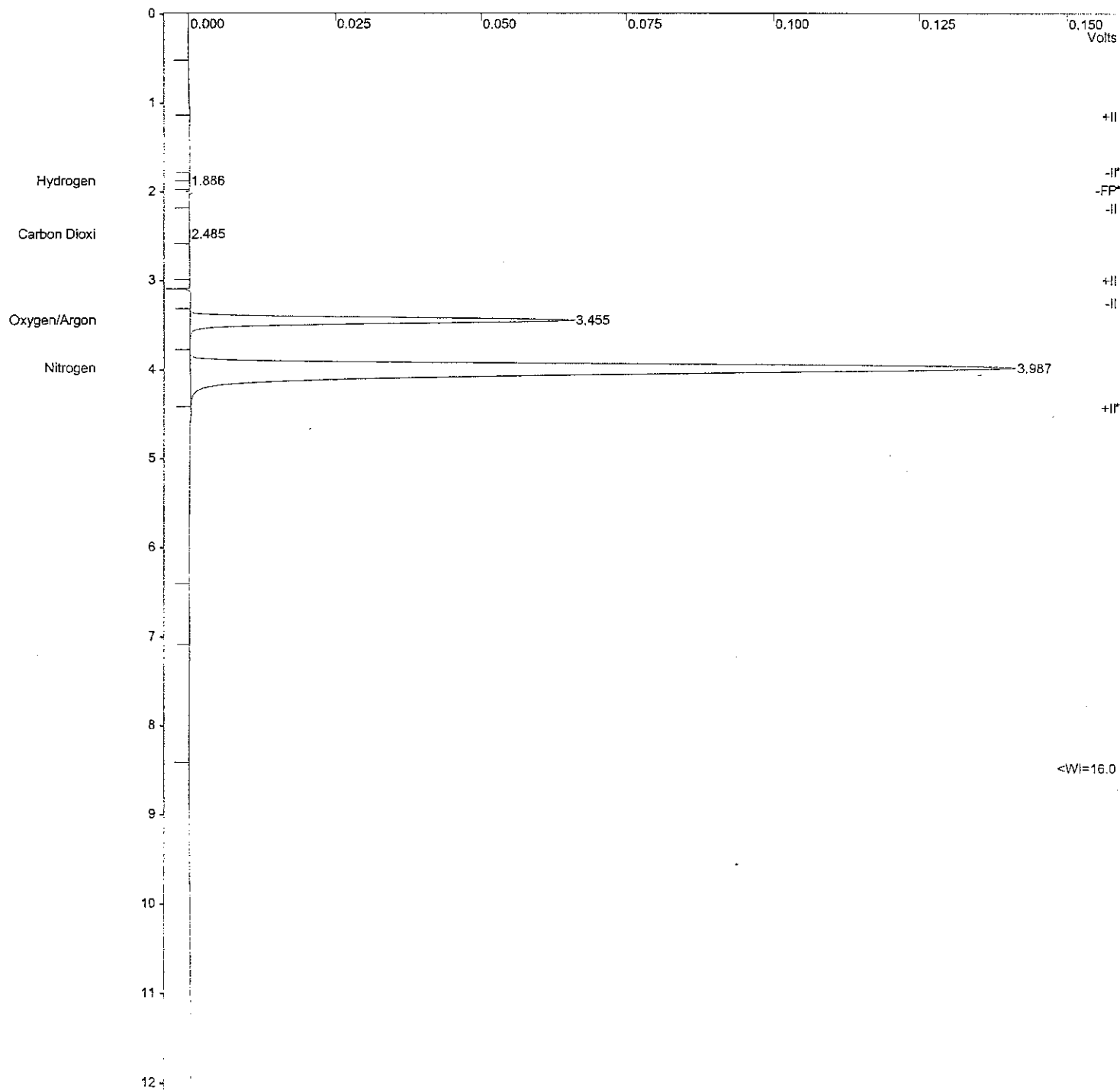
Title : Fixed Gas from TCD
 Run File : c:\temp gc\gc8a\2015\jun\10jun042.run
 Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
 Sample ID : O2 N2 CCV

Injection Date: 6/10/2015 19:18 Calculation Date: 6/10/2015 19:31

Operator : AS Detector Type: 3800 (10 Volts)
 Workstation: Bus Address : 44
 Instrument : GC8A Sample Rate : 10.00 Hz
 Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 66 Zero Offset = 2%
 Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



<WI=16.0

Verification Report

Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun042.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : O2 N2 CCV

Injection Date: 6/10/2015 19:18 Calculation Date: 6/10/2015 19:31

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 4
Tolerance : 25.0%

Table with 8 columns: Peak No., Peak Name, Expected Result (% v/v), Calculated Result (% v/v), Dev. %, Ret. Time (min), Time Offset (min), Area (counts), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
V - Out of verification tolerance
M - Missing peak

Total Unidentified Counts : 5528 counts
Detected Peaks: 8 Rejected Peaks: 1 Identified Peaks: 5
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 4 microVolts - monitored before this run

Manual injection

Verification Failure; No Recovery Action Specified

Revision Log:

6/10/2015 19:31: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 16, Advance Time: 19:16:31

Original Notes:

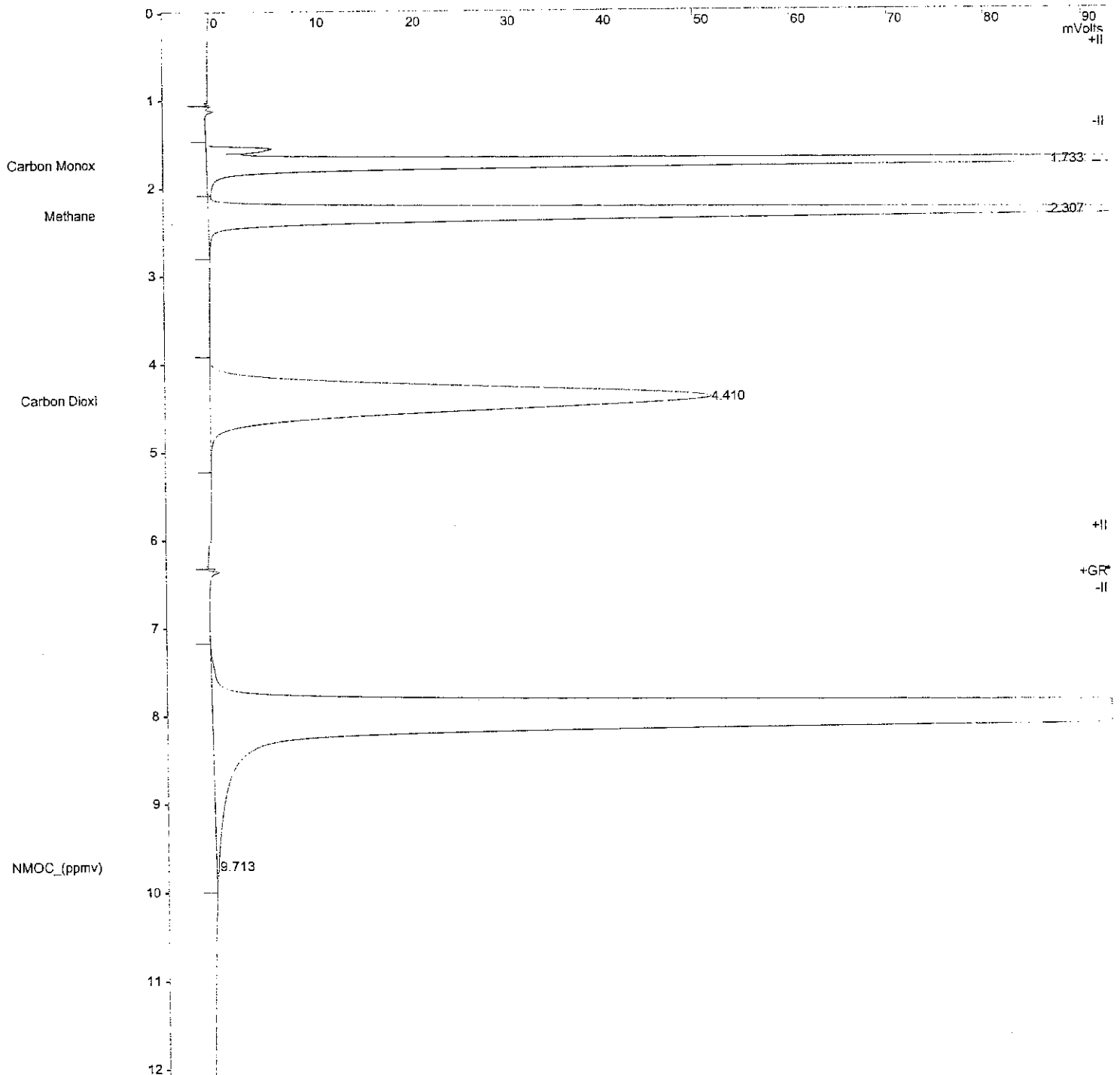
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun043.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 0.1% CH4 CO2 CO

Injection Date: 6/10/2015 19:32 Calculation Date: 6/10/2015 19:45

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Verification Report

Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun043.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 0.1% CH4 CO2 CO

Injection Date: 6/10/2015 19:32 Calculation Date: 6/10/2015 19:45

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 4
Tolerance : 25.0%

Table with 8 columns: Peak No., Peak Name, Expected Result (% v/v), Calculated Result (% v/v), Dev. %, Ret. Time (min), Time Offset (min), Area (counts), Status Codes. Contains 4 rows of peak data and a Totals row.

Status Codes:
V - Out of verification tolerance

Total Unidentified Counts : 27872 counts

Detected Peaks: 5 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -73 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - monitored before this run

Manual injection

Verification Failure; No Recovery Action Specified

Revision Log:

6/10/2015 19:45: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 1, Advance Time: 19:31:06

Original Notes:

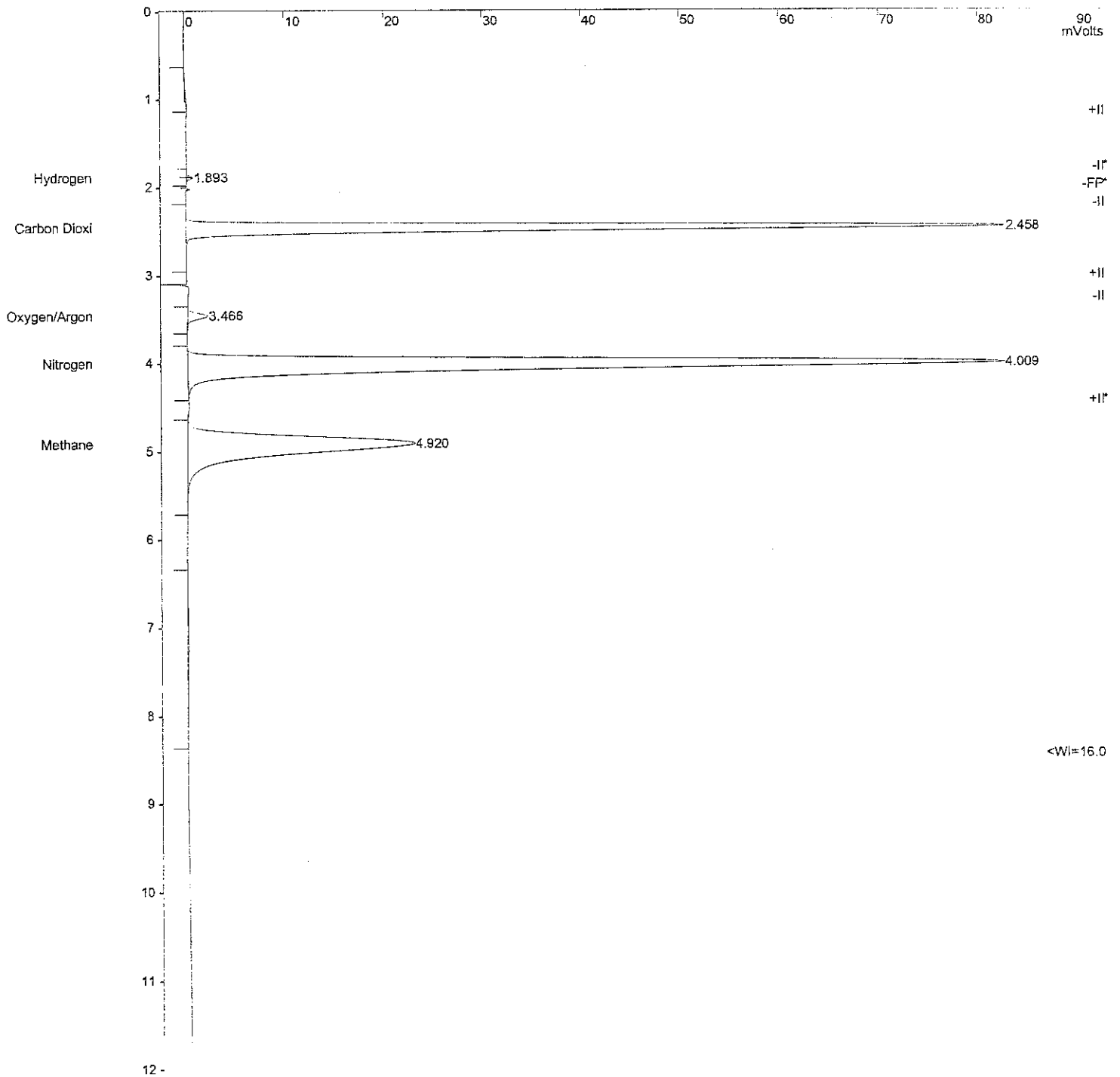
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun044.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 25% CH4 CO2 7% H2

Injection Date: 6/10/2015 19:47 Calculation Date: 6/10/2015 20:00

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 39 Zero Offset = 2%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Verification Report

Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun044.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 25% CH4 CO2 7% H2

Injection Date: 6/10/2015 19:47 Calculation Date: 6/10/2015 20:00

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 3
Tolerance : 25.0%

Table with 8 columns: Peak No., Peak Name, Expected Result (% v/v), Calculated Result (% v/v), Dev. %, Ret. Time (min), Time Offset (min), Area (counts), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and Totals.

Status Codes:
V - Out of verification tolerance

Total Unidentified Counts : 5534 counts

Detected Peaks: 7 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -4 microVolts LSB: 1 microVolts

Noise (used): 4 microVolts - monitored before this run

Manual injection

Verification Failure; No Recovery Action Specified

Revision Log:

6/10/2015 20:00: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 2, Advance Time: 19:45:40

Original Notes:

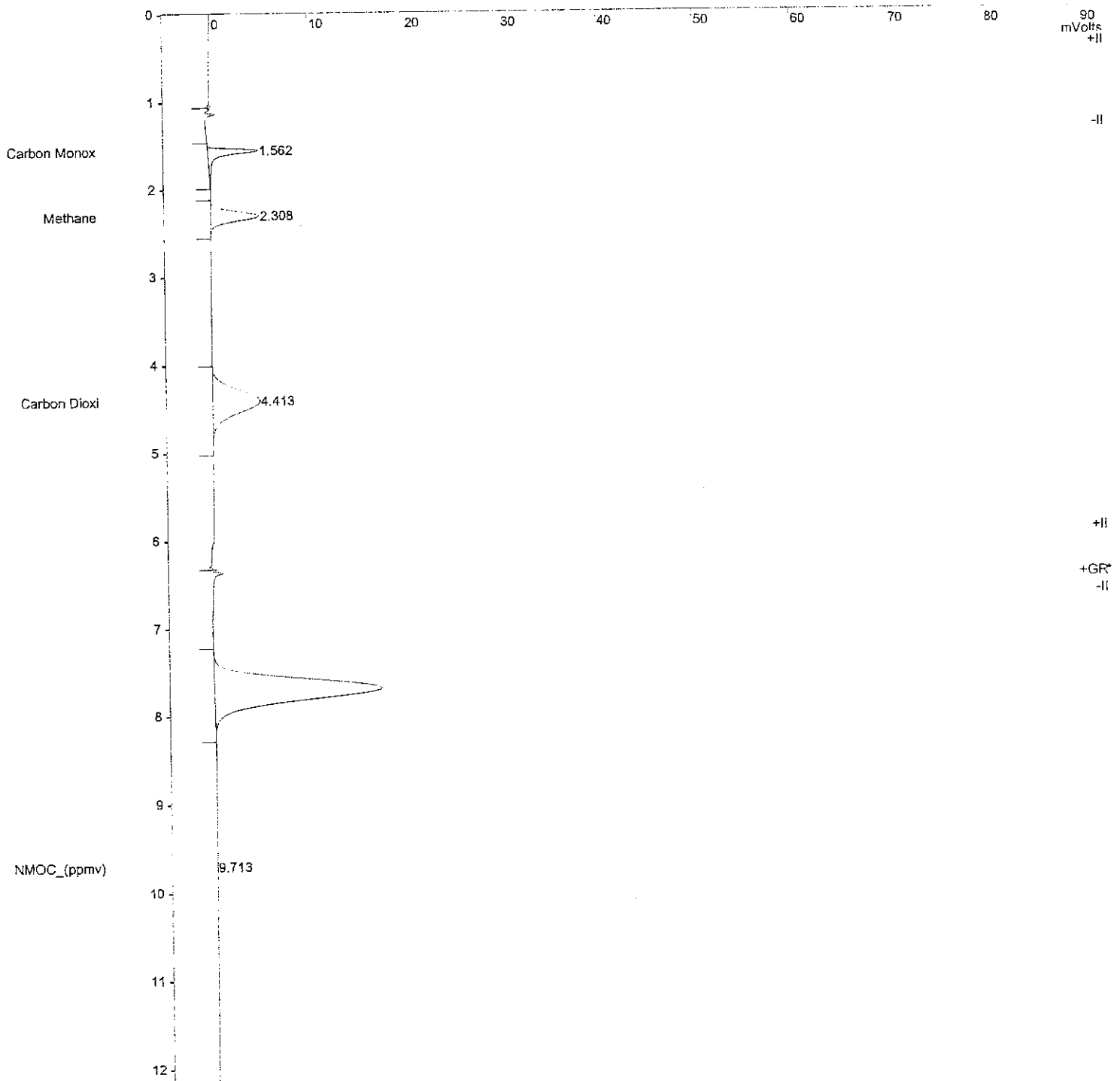
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun045.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 300 ppmv nmoc

Injection Date: 6/10/2015 20:02 Calculation Date: 6/10/2015 20:15

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Verification Report

Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun045.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 300 ppmv nmoc

Injection Date: 6/10/2015 20:02 Calculation Date: 6/10/2015 20:15

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 2
Tolerance : 25.0%

Table with 9 columns: Peak No., Peak Name, Expected Result (% v/v), Calculated Result (% v/v), Dev. %, Ret. Time (min), Time Offset (min), Area (counts), Status Codes. Contains 4 rows of peak data and a Totals row.

Status Codes:
V - Out of verification tolerance

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -12 microVolts LSB: 1 microVolts

Noise (used): 24 microVolts - monitored before this run

Manual injection

Verification Failure; No Recovery Action Specified

Revision Log:

6/10/2015 20:15: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 3, Advance Time: 20:00:17

Original Notes:

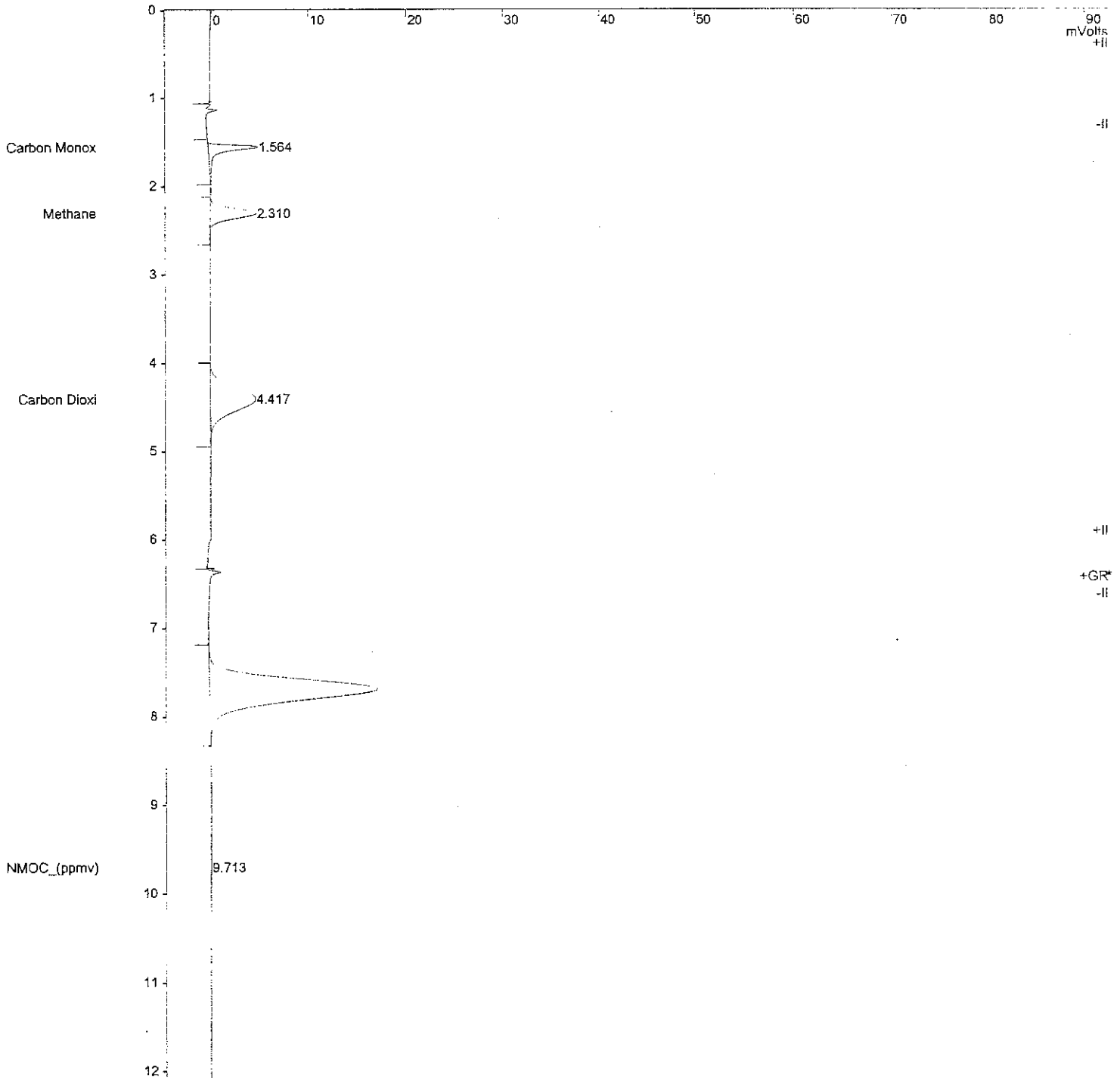
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun046.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 300 ppmv nmoc

Injection Date: 6/10/2015 20:16 Calculation Date: 6/10/2015 20:29

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.087 min Min / Tick = 1.00



Verification Report

Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun046.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 300 ppmv nmoc

Injection Date: 6/10/2015 20:16 Calculation Date: 6/10/2015 20:29

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.087 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 2
Tolerance : 25.0%

Table with 9 columns: Peak No., Peak Name, Expected Result (% v/v), Calculated Result (% v/v), Dev. %, Ret. Time (min), Time Offset (min), Area (counts), Status Codes. Rows include Carbon Monox, Methane, Carbon Dioxi, NMOC_(ppmv), and Totals.

Status Codes:
V - Out of verification tolerance

Total Unidentified Counts : 0 counts
Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
Baseline Offset: -44 microVolts LSB: 1 microVolts

Noise (used): 32 microVolts - monitored before this run

Manual injection

Verification Failure; No Recovery Action Specified

Revision Log:

6/10/2015 20:29: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 3, Advance Time: 20:14:52

Original Notes:

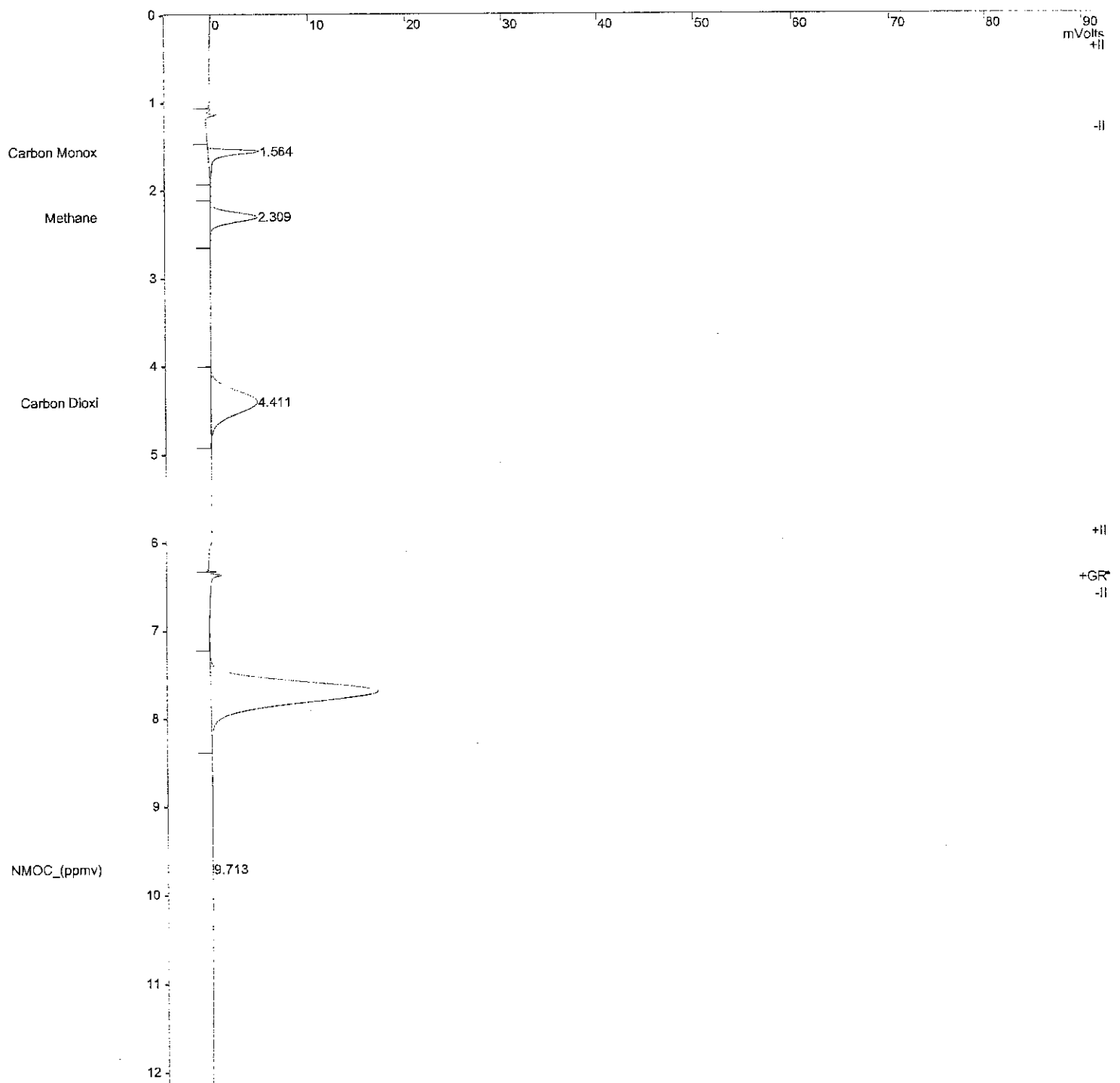
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun047.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 300 ppmv nmoc

Injection Date: 6/10/2015 20:31 Calculation Date: 6/10/2015 20:44

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Verification Report

Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun047.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : 300 ppmv nmoc

Injection Date: 6/10/2015 20:31 / Calculation Date: 6/10/2015 20:44

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Verification
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 2
Tolerance : 25.0%

Table with 9 columns: Peak No., Peak Name, Expected Result (% v/v), Calculated Result (% v/v), Dev. %, Ret. Time (min), Time Offset (min), Area (counts), Status Codes. Contains 4 rows of peak data and a Totals row.

Status Codes:
V - Out of verification tolerance

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -9 microVolts LSB: 1 microVolts

Noise (used): 34 microVolts - monitored before this run

Manual injection

Verification Failure; No Recovery Action Specified

Revision Log:

6/10/2015 20:44: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 3, Advance Time: 20:29:26

Original Notes:

5. Method Blank

a. Chromatograms/ Results

Method Blank Criteria:

All compounds < Reporting Limit

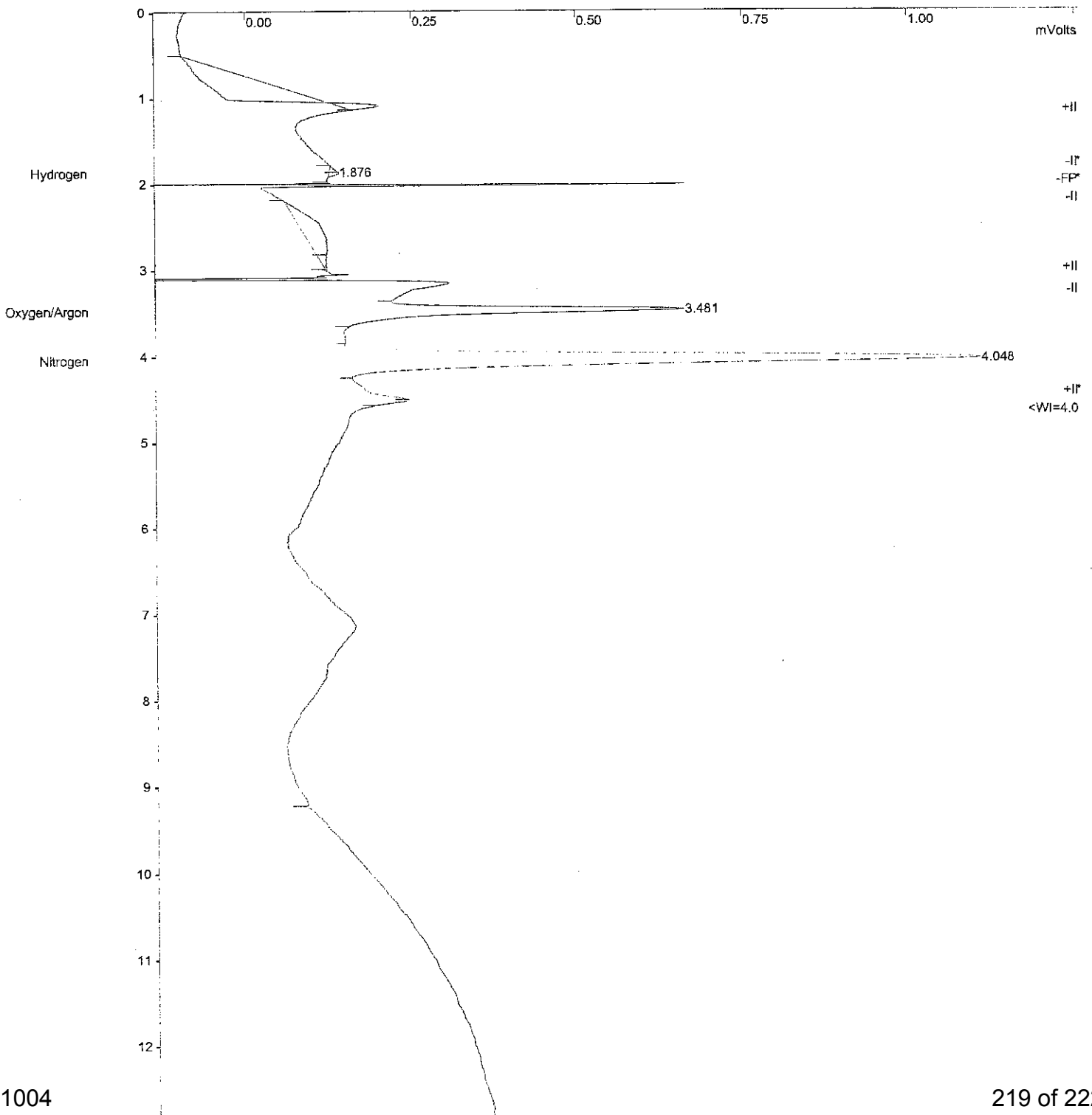
Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun001.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : Method Blank

Injection Date: 6/10/2015 08:22 Calculation Date: 6/10/2015 08:35

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 1 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from TCD
Run File : c:\temp gc\gc8a\2015\jun\10jun001.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : Method Blank

Injection Date: 6/10/2015 08:22 Calculation Date: 6/10/2015 08:35

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Front = TCD Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Rows include Hydrogen, Carbon Dioxide, Oxygen/Argon, Nitrogen, Methane, and a Totals row.

Status Codes:
M - Missing peak

Total Unidentified Counts : 968 counts

Detected Peaks: 7 Rejected Peaks: 1 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -86 microVolts LSB: 1 microVolts

Noise (used): 3 microVolts - monitored before this run

Manual injection

Revision Log:

6/10/2015 08:35: Calculated results from channel Front using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 7, Advance Time: 08:20:58

Original Notes:

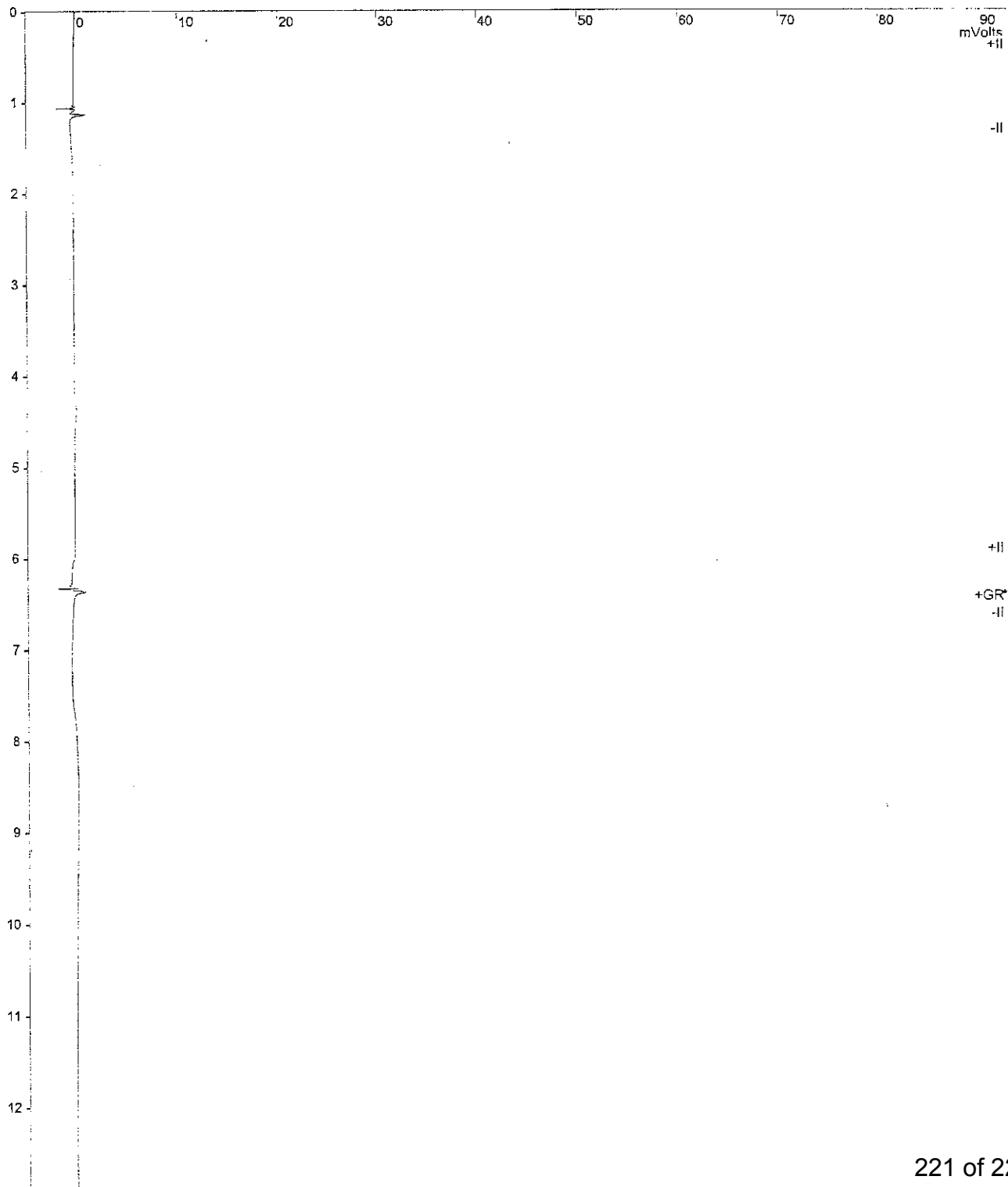
Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun001.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : Method Blank

Injection Date: 6/10/2015 08:22 Calculation Date: 6/10/2015 08:35

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Chart Speed = 1.53 cm/min Attenuation = 40 Zero Offset = 5%
Start Time = 0.000 min End Time = 13.088 min Min / Tick = 1.00



Title : Fixed Gas from FID/NMOC
Run File : c:\temp gc\gc8a\2015\jun\10jun001.run
Method File : C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth
Sample ID : Method Blank

Injection Date: 6/10/2015 08:22 Calculation Date: 6/10/2015 08:35

Operator : AS Detector Type: 3800 (10 Volts)
Workstation: Bus Address : 44
Instrument : GC8A Sample Rate : 10.00 Hz
Channel : Middle = FID Run Time : 13.088 min

** GC Workstation Multi Instrument Version 6.30 ** 01147-7588-C69-24B1 **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Table with 9 columns: Peak No., Peak Name, Result (% v/v), Ret. Time (min), Time Offset (min), Area (counts), Sep. Code, Width 1/2 (sec), Status Codes. Contains 4 rows of peak data and a Totals row.

Status Codes:
M - Missing peak

Total Unidentified Counts : 0 counts

Detected Peaks: 0 Rejected Peaks: 0 Identified Peaks: 4

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: -9 microVolts LSB: 1 microVolts

Noise (used): 35 microVolts - monitored before this run

Manual injection

Data Handling: No peaks

Revision Log:

6/10/2015 08:35: Calculated results from channel Middle using method:
'C:\Temp GC\GC8A\Methods\nmoc fixed_150105.mth'
Stream: 7, Advance Time: 08:20:58

Original Notes:

Appendix C
Perimeter Probe Monitoring Field Records

TABLE C-1

Summary of Flame Ionization Detector Readings Through January 2016 and Landfill Perimeter Probe Sample Selection
 IRP Site 2 Landfill, Operations, Monitoring, and Maintenance 2015 Annual Report, Former Norton AFB, California

Date	Total Organic Vapors (%) ^a																				
	SW1a	SW1b	SW1c	SW2a	SW2b	SW2c	SW3a	SW3b	SW3c	SW11a	SW11b	SW11c	SW12a	SW12b	SW12c	SW13a	SW13b	SW13c	SW14a	SW14b	SW14c
3/16/98	0	4.9 ^b	16.0 ^b	0	0.6	9.5 ^b	0	6.5 ^b	14.0 ^b	---	---	---	---	---	---	---	---	---	---	---	---
4/6/98	0	3.3	8.5 ^b	0	0.3	5.3 ^b	0	5.0 ^b	10.3 ^b	---	---	---	---	---	---	---	---	---	---	---	---
5/11/98	NR	NR	NR ^b	NR	NR	NR ^b	NR	NR ^b	NR ^b	---	---	---	---	---	---	---	---	---	---	---	---
3/23/99	0	0	0.5	0	0	0.3	0	0	7.0 ^b	0	0	4.7	0	0	9.1 ^b	0	0	6.7 ^b	0	0	0.2
6/23/99	0	0	0.4	0	0	0.2	0	0	1.3	0	0	0	0	0	7.9 ^b	0	0	1.9	0	0	0
9/2/99	0	0	0.3	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	1.9 ^b	0	0	0
12/7/99	0	0	0.1	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	2.4 ^b	0	0	0
3/28/00	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	1.1 ^b	0	0	0
6/20/00	0	0	0.2	0	0	0	0	0	0.3 ^b	0	0	0	0	0	0	0	0	0	0	0	0
9/12/00	0	0	0.1	0	0	0	0	0	2.3 ^b	0	0	0	0	0	0	0	0	0.8	0	0	0
12/19/00	0	0	0	0	0	0	0	0	0	0	0	6.3 ^b	0	0	0.9	0	0	0	0	0	0
3/13/01	0	0	0	0	0	0	0	0	2.9 ^b	0	0	0	0	0	1.6	0	0	0	0	0	0
6/19/01	0	0	0.3	0	0	0	0	0	0.6	0	0	0	0	0	2.1 ^b	0	0	0.7	0	0	0
9/18/01	0	0	0.2	0	0	0	0	0	0.6	0	0	4.6 ^b	0	0	2.4	0	0	0.8	0	0	0
12/27/01	0	0	0.1	0	0	0	0	0	0	0	0	0.3 ^b	0	0	0	0	0	0	0	0	0
3/28/02	0	0	0	0	0	0	0	0	6.7 ^b	0	0	0	0	0	0	0	0	0.6	0	0	0
6/26/02	0	0	0.3	0	0	0	0.2	0.2	5.4 ^b	0.2	0.1	6.3 ^b	0	0	3.8	0.2	0	2.6	0	0	0
9/24/02	0	0	0.6	0	0	0	0	0	3.4	0	0	6.7 ^b	3.4	3.4	2.6	0	0	1.8	0	0	0
12/17/02	0	0	0.8	0	0	0	0	0	4.1	0	0.1	6.9 ^b	0	0	3.4	0	0	2.1	0	0	0
3/19/03	0	0	0.8	0	0	0	0	0	7.2 ^b	0	0	4.7	0	0	5.8 ^b	0	0	1.8	0	0	0
6/24/03	0	0	0.7	0	0	0.1	0.1	0.2	2.7	0.2	0.3	7.8 ^b	0.2	0.2	8.8 ^b	0	0.1	1.4	0	0	0
9/23/03	0.1	0	0.5	0	0.1	0.1	0	0	1.1	0	0	1.5	0.1	0	3.4 ^b	0.1	0.1	1.8	0	0.1	0
12/10/03	0	0	0.7	0	0	0	0	0	1.7	0	0	9.2 ^b	0	0	3.6	0	0	2.8	0	0	0
3/24/04	0	0	0.4	0	0	0	0	0	0.8	0	0	8.8 ^b	0	0	4.0	0	0	2.0	0	0	0
6/23/04	0	0	0.4	0	0	0	0	0	0.6	0	0	9.3 ^b	0	0	3.0	0	0	1.6	0	0	0
9/29/04	0	0	0.3	0	0	0	0	0	0.5	0	0	10.4 ^b	0	0	3.7	0	0	1.6	0	0	0
12/28/04	0	0	0.2	0	0	0	0	0	1.0	0	0	6.2 ^b	0	0	6.6 ^b	0	0	1.0	0	0	0
3/29/05	0.1	0.1	1.4	0.1	0.1	1.4	0.2	0.3	3.0	0.1	0.1	6.8 ^b	0.1	0.3	12.1 ^b	0.1	0.1	3.3	0	0.3	2.6
6/28/05	0	0.1	1.5	0.1	0	3.0	0.1	0.1	3.7	0.1	0	5.6 ^b	0.1	0.1	14.0 ^b	0.1	0.1	6.0 ^b	0.1	0.2	2.2
9/20/05	0.1	0.2	1.2	0.2	0.1	1.7	0.1	0.1	1.7	0.1	0	7.8 ^b	0.1	0.1	8.2 ^b	0.1	0.2	5.8 ^b	0.2	0.3	0.3
12/20/05	0.2	0.2	0.8	0.2	0.2	0.9	0.3	0.2	1.3	0.4	0.4	6.5 ^b	0.2	0.3	3.7	0.2	0.2	2.4	0	0.1	0.2
3/28/06	0	0	0.1	0	0	0	0	0	0.8	0	0	6.8 ^b	0	0	4.5	0	0	0.6	0	0	0
6/20/06	0	0	0.1	0	0	0.3	0	0	0.6	0	3.7	4.4	0	0	5.5 ^b	0	0	0.6	0	0	0
9/27/06	0	0	0.5	0	0	0.5	0.1	0.1	1	0.1	0.1	4.7	0	0	5.1 ^b	0	0.1	1.4	0	0	0
12/13/06	0	0	0.1	0	0	0.1	0	0	0.6	0	0	6.9 ^b	0.1	0.1	4.7	0	0	1.1	0	0	0
3/14/07	0	0	0	0	0	0	0	0	0.5	0	0	7.5 ^b	0	0	2.4	0	0	0.3	0	0	0
6/6/07	0.1	0	0.2	0	0.1	0.1	0.1	0.1	0.8	0.3	0.2	8.2 ^b	0.2	0.2	2.0	0	0.1	0.3	0	0	0.1
9/19/07	0	0	0.1	0	0	0	0.2	0.1	1.1	0.2	0.2	8.7 ^b	0.2	0.1	0.9	0	0.1	0.2	0	0	0
12/18/07	0	0	0	0	0	0	0	0	0.4	0	0	6.6 ^b	0	0	0.8	0	0	0	0	0	0
3/25/08	0	0	0	0	0	0	0	0	0	0.1	0.2	3.4 ^b	0.1	0.2	0.7	0	0	0	0	0	0
6/24/08	0	0.1	0.2	0	0	0	0.1	0.3	0.2	0.3	0.1	1.4 ^b	0.1	0.3	0.3	0.3	0.1	0.2	0	0.1	0
10/8/08	0	0	0	0.1	0	0	0.1	0.1	0.2	0.4	0.1	0.2 ^b	0.3	0.2	0.1	0.2	0.2	0.2	0	0	0
12/16/08	0	0	0	0	0	0	0	0	0	0.1	0.2	0.2 ^b	0	0	0.1	0	0.1	0	0	0	0
3/18/09	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1 ^b	0.1	0.1	0.1	0.1	0.1	0.1
6/10/09	0	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0	0	0
9/29/09	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1 ^b	0	0	0	0	0	0	0	0	0
12/3/09	0	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0	0	0
3/30/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4 ^b	0	0	0	0	0	0
6/9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0
8/6/10	0	0	0	0	0	0	0	0	0	0	0	7.5 ^b	0	0	8.7 ^b	0	0	0	0	0	0
8/12/10	0	0	0	0	0	0	0	0	0	0	0	7.2	0	0	10	0	0	0	0	0	0

TABLE C-1

Summary of Flame Ionization Detector Readings Through January 2016 and Landfill Perimeter Probe Sample Selection
IRP Site 2 Landfill, Operations, Monitoring, and Maintenance 2015 Annual Report, Former Norton AFB, California

Date	Total Organic Vapors (%) ^a																					
	SW1a	SW1b	SW1c	SW2a	SW2b	SW2c	SW3a	SW3b	SW3c	SW11a	SW11b	SW11c	SW12a	SW12b	SW12c	SW13a	SW13b	SW13c	SW14a	SW14b	SW14c	
8/16/10	0	0	0	0	0	0	0	0	1.1	0	0	2.8	0	0	6.1	0	0	0	0	0	0	0
8/17/10	0	0	0	0	0	0	0	0	2.1	0	0	4.9	0	0	8.6	0	0	0	0	0	0	0
8/27/10	0	0	0	0	0	0	0	0	0.6	0	0	6.8	0	0	8	0	0	0	0	0	0	0
9/20/10	0	0	0	0	0	0	0	0	1.9	0	0	0 ^b	0	0	0 ^b	0	0	0	0	0	0	0
10/28/10	0	0	0	0	0	0	0	0	1.3	0	0	0 ^b	0	0	0 ^b	0	0	0	0	0	0	0
2/15/11	0	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0	0	0	0
4/28/11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0
5/25/11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/11	0	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0	0	0	0
9/14/11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0
12/8/11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/12	0	0	0.1	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0.1	0	0.2	0.1	0
2/8/12	0	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0	0	0	0
4/3/12	0	0	0	0	0	0	0	0.1	0	0	0.1	0 ^b	0.1	0	0	0	0	0	0	0	0	0
5/29/12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/16/12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/12	0	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0	0	0	0.1
2/11/13	0	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0	0	0	0
4/26/13	0	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0	0	0	0
8/12/13	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/13	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0
3/11/14	NR	NR	NR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0.1
12/10/14	0	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0	0	0	0
6/10/15	0	0	0	0	0	0	0	0	0	0	0	0 ^b	0	0	0	0	0	0	0	0	0	0
1/12/16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

^a Readings in %, percentage total organic vapors (as methane) of total volume sampled.

^b Sampled

NR = No reading. The field screening instrument failed to respond accurately or no access to wells.

Bold = result exceeds 5% limit.



CH2MHILL

**Former Norton AFB
Perimeter Vapor Well Monitoring
Landfill 2**

Monitoring Instrument and Serial Number: GEM 2000 13320

Meter Calibration Method and Results: CH₄ - 15.1% , CO₂ - 15.2% , O₂ - 15%

Monitoring Personnel: Dan Chern

Weather: Sunny Ambient Air Temp at Start: 72° at End: 86° F

Well Name	Date	Time	Methane (% Gas)	CO2 (%)	O2 (%)	Pressure (in H2O)	Comments (Note Well Condition)	
SW1a	6/10/15	1007	0.0	1.2	17.3	0.0		
SW1b	↓	1002	0.0	2.6	14.6	0.0		
SW1c		0956	0.0	3.3	12.1	0.0		
SW2a		1438	0.0	1.2	16.9	0.0		
SW2b		1434	0.0	2.3	12.8	0.0		
SW2c		1428	0.0	2.6	11.8	0.0		
SW3a		1102	0.0	2.7	14.7	0.0		
SW3b		1058	80.0	10.2	9.3	0.0		
SW3c		1052	0.0	18.1	0.9	0.0		
SW11a		↓	1418	0.0	0.1	18.2	0.0	

Well Name	Date	Time	Methane (% Gas)	CO2 (%)	O2 (%)	Pressure (in H2O)	Comments (Note Well Condition)
SW11b	6/10/15	1414	0.0	0.1	18.1	0.0	
SW11c	↓	1408	0.0	4.9	11.3	0.0	
SW12a		1500	0.0	1.6	16.9	0.0	
SW12b		1456	0.0	1.5	16.0	0.0	
SW12c		1450	0.0	15.3	0.0	0.2	Sample: SW12C-061015P 6/10/15 Start: 27 psi End: 4.5/5 1505 *
SW13a		0947	0.0	2.7	15.4	0.0	
SW13b		0939	0.0	3.7	13.7	0.0	
SW13c		0933	0.0	8.8	5.8	0.0	
SW14a		1353	0.0	1.4	16.3	0.0	
SW14b		1349	0.0	2.8	14.3	0.0	
SW14c		1343	0.0	5.4	10.8	0.0	

Pump Flow Rate (L/min): 3 L/min.

Purge Time (min): _____

Shallow - 4 min purge
 Mid - 6 min "
 Deep - 8 min "



CH2MHILL

Former Norton AFB
Perimeter Vapor Well Monitoring
Landfill 2

Monitoring Instrument and Serial Number: GEM 2000 13320

Meter Calibration Method and Results: 15% CH4 15% O2 READING 15.4% CH4 15% O2

Monitoring Personnel: M. LADEAU

Weather: CLEAR/SUNNY Ambient Air Temp at Start: 42°/38 at End: 56°/52°

Well Name	Date	Time	Methane (% Gas)	CO2 (%)	O2 (%)	Pressure (in H2O)	Comments (Note Well Condition)
SW1a	1/12/16	0955	0.0	0.6	17.2		
SW1b	↓	1010	0.0	1.9	14.6		
SW1c	↓	1030	0.0	10.2	5.8		
SW2a	1/11/16	0844	0.0	0.1	17.4		
SW2b	1/11/16	0835	0.0	1.5	15.1		
SW2c	1/11/16	0825	0.0	0.8	16.0		
SW3a	1/12/16	0815	0.0	3.6	15.8		
SW3b	↓	0825	0.0	11.1	11.2		
SW3c	↓	0835	0.0	23.1	1.5		
SW11a	1/11/16	1050	0.0	0.1	17.6		

Well Name	Date	Time	Methane (% Gas)	CO2 (%)	O2 (%)	Pressure (in H2O)	Comments (Note Well Condition)
SW11b	1/11/16	1040	0.0	0.2	17.5		
SW11c	↓	1050	0.0	0.7	17.4		
SW12a		1015	0.0	0.6	17.5		
SW12b		1005	0.0	1.7	16.4		
SW12c	↓	0955	0.0	10.8	6.7		
SW13a	1/12/16	0900	0.0	0.9	17.0		
SW13b	↓	0915	0.0	1.8	14.5		
SW13c		0930	0.0	9.9	6.1		
SW14a	1/11/16	0920	0.0	0.8	17.1		
SW14b	1/11/16	0910	0.0	2.9	14.9		
SW14c	1/11/16	0905	0.0	5.7	11.9		

Pump Flow Rate (L/min): _____

Purge Time (min): _____

Appendix D
Perimeter Probe and Header Analytical Results

Date Reported:
10-Jul-15

Spectrum Analytical, Inc.

Laboratory Report

- Final Report
- Re-Issued Report
- Revised Report

CH2M Hill
2525 Airpark Dr.
Redding, CA 96001

Project #: 3515608
Project: NORTON LF2 2015

Attn: Mark Fesler

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
351560801	LF2Header061015	A	10-Jun-15 15:55	15-Jun-15 10:30
351560802	SW12C-061015	A	10-Jun-15 16:20	15-Jun-15 10:30
351560803	SW12C-061015D	A	10-Jun-15 15:10	15-Jun-15 10:30

Soil samples are reported on dry weight basis, unless otherwise noted.

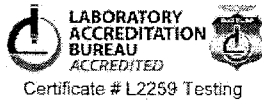
Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis.

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met unless noted in the case narrative.

Please contact the laboratory at 813-888-9507 with any questions regarding the data contained in the laboratory report.

Florida	E84207
Texas	T104704408-14-6
South Carolina	96011001
North Dakota	R-178
California	2908
Louisiana	02025
Arkansas	14-036-0
New Jersey	FL020



Respectfully Submitted,

Brian Spann
Laboratory Director
Spectrum Analytical, Inc. Florida Division

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Agawam Division



SPECTRUM ANALYTICAL, INC.

**Quality Assurance/Quality Control Data Deliverable
Level III**

Prepared for

Spectrum Analytical, Inc. - Tampa, FL

Project/Number: Former Norton AFB / 393091.NO.02.15.04

Work Order: SC08805

SDG# 08805

Submitted on June 15th, 2015



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Laboratory Name: Spectrum Analytical, Inc.

City/State: Agawam, MA

Client Name: Spectrum Analytical, Inc. - Tampa, FL

Project Name/Number: Former Norton AFB / 393091.NO.02.15.04

SDG#: 08805

Associated Work Orders: SC08805

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NY Lab ID #11393/11840
NJ Lab ID#MA011/MA012



SPECTRUM ANALYTICAL, INC.

Spectrum Analytical, Inc. - Tampa, FL

Client Project: Former Norton AFB
ALS Environmental - Simi Valley, CA

Project Number: 393091.NO.02.15.04
Spectrum Analytical, Inc. Project ID: SC08805

06/30/2015

Prepared for: Spectrum Analytical, Inc. - Tampa, FL
8405 Benjamin Road Suite A
Tampa, FL 33634
Attn: John Heyman

Prepared By: Spectrum Analytical, Inc.
830 Silver Street
Agawam, MA 01001
(800)789-9115

ALS Environmental - Simi Valley, CA

SDG08805

SC08805 General Narrative

Spectrum Analytical, Inc. submits the enclosed data package for the site characterization of Former Norton AFB. Samples submitted for analysis by Spectrum Analytical, Inc. - Tampa, FL. Under this deliverable, analysis results are presented for three Air samples submitted on June 15th, 2015.

The analyses were performed according to USEPA SW846 method analytical guidelines and other methods. In addition the analyses were performed according to criteria dictated by National Environmental Laboratory Accreditation Conference (NELAC) and in accordance with project contract requirements and chain of custody forms.

Observations and/or deviations observed for specific analyses can be found in the analysis narrative:

1. Overall Observations:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual Integrations are coded to provide the data reviewer justification for such action. The codes are labeled on corresponding raw data for GC/MS and GC analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Scanned copies of logbook pages are included, with the originals are archived within the laboratory.

The pages in this report have been numbered consecutively, starting with the general narrative and ending with the page labeled as "Last Page of data Report".

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this electronic data package, has been authorized by the laboratory director as verified by the following signature.



Nicole Leja
Laboratory Director

Date: 06/30/2015

Executive Summary - Detection Highlights

Sample ID: LF2Header061015

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	29.6		10.0	ppbv	EPA TO-15
1,2-Dichlorotetrafluoroethane (Freon 114)	20.2		10.0	ppbv	EPA TO-15
1,4-Dichlorobenzene	60.8		10.0	ppbv	EPA TO-15
Acetone	49.8		10.0	ppbv	EPA TO-15
Benzene	26.0		10.0	ppbv	EPA TO-15
Chlorobenzene	85.8		10.0	ppbv	EPA TO-15
cis-1,2-Dichloroethene	11.0		10.0	ppbv	EPA TO-15
Dichlorodifluoromethane (Freon12)	29.6		10.0	ppbv	EPA TO-15
Ethylbenzene	84.4		10.0	ppbv	EPA TO-15
m,p-Xylene	48.2		20.0	ppbv	EPA TO-15
Methane	20400	D	138	ppmv	Mod EPA 3C
Methane	18300	E	10.0	ppmv	Mod EPA 3C

Sample ID: SW12C-061015

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	2.37		0.500	ppbv	EPA TO-15
1,1-Dichloroethane	0.610		0.500	ppbv	EPA TO-15
1,2-Dichlorotetrafluoroethane (Freon 114)	9.34		0.500	ppbv	EPA TO-15
1,4-Dichlorobenzene	0.710		0.500	ppbv	EPA TO-15
2-Butanone (MEK)	0.460		0.500	ppbv	EPA TO-15
Acetone	7.50		0.500	ppbv	EPA TO-15
Chloroform	0.890		0.500	ppbv	EPA TO-15
Dichlorodifluoromethane (Freon12)	4.66		0.500	ppbv	EPA TO-15
Methylene chloride	0.780		0.500	ppbv	EPA TO-15
Tetrachloroethene	2.84		0.500	ppbv	EPA TO-15
Toluene	0.550		0.500	ppbv	EPA TO-15
Trichlorofluoromethane (Freon 11)	19.1		0.500	ppbv	EPA TO-15

Sample ID: SW12C-061015DD

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	2.32		0.500	ppbv	EPA TO-15
1,1-Dichloroethane	0.560		0.500	ppbv	EPA TO-15
1,2-Dichlorotetrafluoroethane (Freon 114)	7.60		0.500	ppbv	EPA TO-15
Acetone	5.40		0.500	ppbv	EPA TO-15
Chloroform	0.660		0.500	ppbv	EPA TO-15
Dichlorodifluoromethane (Freon12)	3.86		0.500	ppbv	EPA TO-15
Methylene chloride	0.820		0.500	ppbv	EPA TO-15
Tetrachloroethene	2.48		0.500	ppbv	EPA TO-15
Trichlorofluoromethane (Freon 11)	15.8		0.500	ppbv	EPA TO-15

Please note that this summary does not include hits from hazardous waste characterizations or micro analyses, because they do not have minimum detection limits.

Sample Identification and Analytical Requirements Summary

Project Name: Former Norton AFB

SDG:

SC08805

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		VOC Method #	SVOC Method #	GC Method #	Metals	Other
LF2Header061015	SC08805-01					EPA TO-15 Mod EPA 3C Subcontract
SW12C-061015	SC08805-02					EPA TO-15 Mod EPA 3C Subcontract
SW12C-061015D	SC08805-03					EPA TO-15 Mod EPA 3C Subcontract



SPECTRUM ANALYTICAL, INC.

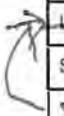
Sample Transmittal Documentation

3008805 JCH

CH2MHILL

CHAIN OF CUSTODY RECORD

Project Name Former Norton AFB Location Former Norton AFB Project Number 393091.NO.02.15.04 Project Manager Andy Cramer Sample Manager Dan Chern (201) 563-5912 Task Order Project NORTON LF2 2015 Turnaround Time 21 Days Shipping Date: COC Number: PEL-061115				Container: Summa canister Summa canister Summa canister Summa canister Preservatives: None None None None Filtered: NA NA NA NA Holding Time: 14 14 14 14				EPA 3C (Fixed gases including METHANE) EPA 25C Mod (TGMMO as %methane in landfill gases) TO-15 (VOCs)	44/D5504-01 (lab specific method for H2S)	Number of Containers	COMMENTS
DATE TIME Matrix											
LF2Header061015	6/10/15	1555	Air	X	X	X	X	End 4" Hg , Can 0267	3008805-01	1	
LF2Header061115D (DC)	6/10/15	1620	Air	X	X	X	X	End 4" Hg , Can 0676	02	1	
SW ₂ -061015	6/10/15	1510	Air	X	X	X	X	End 4" Hg , Can 0263	03	1	SW12C
TOTAL NUMBER OF CONTAINERS										3	



23.3/-1/22.3/03
6/15/15 UK

Approved by _____ Sampled by _____ Relinquished by _____ Received by _____ Relinquished by _____ Received by _____	Signatures _____ _____ _____ _____ _____	Date/Time _____ _____ _____ _____ _____	Shipping Details Method of Shipment: FedEx On Ice: yes <input checked="" type="radio"/> no Airbill No: Lab Name: Spectrum Analytical Lab Phone: (813) 888-9507	ATTN: Sample Custody and John Heyman	Special Instructions: Report Copy to Mark Fesler (530) 229-3273
---	--	---	---	--	--

Spectrum Analytical, Inc.

8405 Benjamin Rd., Suite A
Tampa, FL 33634
(P) 813-888-9507 (F) 813-889-7128

CHAIN-OF-CUSTODY RECORD


WorkOrder: 3515608

12

Send to:

Spectrum Analytical, Inc.
11 Almgren Dr.
Agawam, MA 01001
Phone: 800-789-9115 FAX: 413-789-4076

Project: Norton
Project Name NORTON LF2 2015

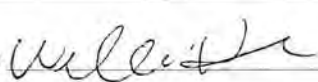
Report To:  John Heyman, Ext 2
Report Level: 3
Report RLU or MDLU: MDL U
J Code results between MDL and RL

Sample ID	LabID	Collection Date	Date Needed	Mtx	ST	Cont	Requested Tests						Comments			
							ASTMD5504 H2S H2S H2S	Lead EPA 308	Cadmium EPA 309	Copper EPA 253	TO15 VOC					
LF2Header061015	351560801	6/10/2015 3:55:00 PM	6/29/2015	A	N	1	X	X	X							
SW12C-061015	351560802	6/10/2015 4:20:00 PM	6/29/2015	A	N	1	X	X	X							
SW12C-061015D	351560803	6/10/2015 3:10:00 PM	6/29/2015	A	N	1	X	X	X							

TGNM0 & H2S sub to ALS/CAS-Sim

3515608

Comments: Follow Norton QAPP.

	Date/Time		Date/Time
Relinquished by: 	_____	Received by: _____	_____
Relinquished by: _____	_____	Received by: _____	_____
Relinquished by: _____	_____	Received by: _____	_____



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Chain of Custody Record/Field Test Data Sheets for Air Analyses

Page ____ of ____

Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: _____

- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.

13

Report To:						Invoice To:						Analysis				Matrix		Check box if canister is returned unused					
						Project No.:																	
						Site Name:																	
						Location:						State:											
Tel#:						Attn:						Sampler(s):											
Project Manager:						P.O. No.:						RQN:											
Can ID	Can Size (L)	Outgoing Canister Pressure ("Hg) (Lab)	Incoming Canister Pressure ("Hg) (Lab)	Flow Reg. ID	Flow Controller Readout (ml/min)	Lab id:	Sample id:	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)			Indoor /Ambient Air	Soil Gas					
LABORATORY USE ONLY																							
0676	6	-30																					
0660	6	-30																					
0267	6	-30																					
0263	6	-30																					
Date of Request: 6/2/15						Total # Canisters: 4						QA/QC Reporting Level:				Client Use		Ambient Temperature (Fahrenheit)		Ambient Pressure (inches of Hg)			
Requested by: Project Managers						# LL Canisters: -						<input type="checkbox"/> Standard				<input type="checkbox"/> NY ASP A*		<input type="checkbox"/> TIER II*		<input type="checkbox"/> MA DEP CAM			
Company: Spectrum, Tampa						# Flow Controllers: 0						<input type="checkbox"/> NO QC				<input type="checkbox"/> NY ASP B*		<input type="checkbox"/> TIER IV*		<input type="checkbox"/> CT DPH RCP			
Location: Nuevo, CA						Flow Rate/Setting: -						<input type="checkbox"/> DQA*				* additional charges may apply contact SA's QA Department for further info.							
Date Needed: 6/4/15						Order #: 35987						Prepared by: MJL/gre						Special Instructions/QC Requirements & Comments:					
I attest that all media relinquished from Spectrum Analytical, Inc. have been received in good working condition, based on visual observation, and agree to the terms and conditions as listed on the back of this document.																							
Signed:						Date:																	
Printed:						Please contact SA's Air Department immediately at (800) 789-9115 if you experience any technical difficulties or suspect any QC issue(s) with air media.																	
Relinquished by:						Received by:						Date:						Time:					
<input type="checkbox"/> EDD Format <input type="checkbox"/> E-mail Results to _____																							

3515608

SDG-08805 Page 8 / 93

A 4613

WORK ORDER

Printed: 6/15/2015 4:36:47PM

SC08805

Spectrum Analytical, Inc. - Agawam, MA

Report To:

Spectrum Analytical, Inc. - Tampa, FL
 John Heyman
 8405 Benjamin Road Suite A
 Tampa, FL 33634
 Phone: (813) 888-9507
 Fax: (813) 889-7128

Project #: 393091.NO.02.15.04
 Project: Former Norton AFB
 Date Due: 24-Jun-15 17:00
 Received By: Yiekie Knowles
 Date Received: 15-Jun-15 10:30
 Temperature: 22.3°C
 PO #:

- | | |
|--|---|
| <ul style="list-style-type: none"> ✓ Containers Intact ✓ Properly Labeled ✓ COC/Labels Agree Received On Ice ✓ Recd within hold time Air-tight containers (Encore device) Refrigerated DW Field QC | <ul style="list-style-type: none"> Frozen vials Frozen soil jars State EDD ✓ COC present ✓ Custody seal present ✓ Custody seal intact ✓ COC complete |
|--|---|

Lab ID	Client ID	Sampled	Lab Matrix / Report Matrix	Containers
SC08805-01	LF2Header061015	10-Jun-15 15:55	Air / Air	A - Summa canister 6 liter
SC08805-02	SW12C-061015	10-Jun-15 16:20	Air / Air	A - Summa canister 6 liter
SC08805-03	SW12C-061015D	10-Jun-15 15:10	Air / Air	A - Summa canister 6 liter

WORK ORDER

Printed: 6/15/2015 4:36:47PM

SC08805

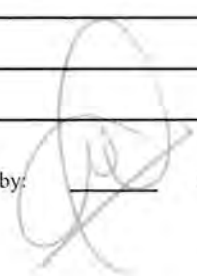

Spectrum Analytical, Inc. - Agawam, MA

Analysis	Due	TAT	Comments
SC08805-01 LF2Header061015			
Methane (Air)	24-Jun-15 16:00	7	
TO-15 + TE-MANU 1/12/15	"	"	
SC08805-02 SW12C-061015			
Methane (Air)	"	"	
TO-15 + TE-MANU 1/12/15	"	"	
SC08805-03 SW12C-061015D			
Methane (Air)	"	"	
TO-15 + TE-MANU 1/12/15	"	"	

SPECTRUM ANALYTICAL, INC.
SAMPLE INTEGRITY FORM

Sample ID	Initial pH	Sample split	Preservative Added			Final pH	Chlorinated? (Y/N)	10% Na2S2O3 - Element # 15D0952	Notes
			50% HCl - Element # 15D1359	50% H2SO4 - Element # 15B0085	50% NaOH - Element # 15B0084				Work Order No. <h2 style="margin: 0;">SC08805</h2> Solid samples for VOC analyses: <input type="checkbox"/> Submitted in SA provided CH3OH/DI/NaHSO4 vials <input type="checkbox"/> Submitted in CH3OH/DI/NaHSO4, not SA <input type="checkbox"/> Not submitted in CH3OH/DI/NaHSO4

Notes:

COC login reviewed by:  Login Analyst Initials:  Date: 6/15/2015 (Rev. 2/5/2013)

From: (916) 286-0339
Daniel Chern
CH2MHILL INC
2485 Natomas Park Drive
Suite 600
Sacramento, CA 95833

Origin ID: SMFA



J151215022303uv

Ship Date: 09JUN15
ActWgt: 15.0 LB
CAD: 104051055/WSXI2500

Dims: 28 X 14 X 14 IN

Delivery Address Bar Code



SHIP TO: (413) 789-9018

BILL THIRD PARTY

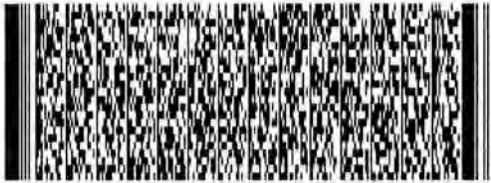
Shipping & Receiving
Agawam Lab (Spectrum Analytical)
11 Almgren Drive

Agawam, MA 01001

Ref # 393091.NO.02.15.04
Invoice #
PO #
Dept #

WED - 10 JUN AA
STANDARD OVERNIGHT

TRK# 7807 9400 5468
0201



XE EHTA

01001
MA-US
BDL



537J1/BA0E/EE4B



SPECTRUM ANALYTICAL, INC.

EPA TO-15

CROSS REFERENCE TABLE

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 08805
Client: Spectrum Analytical, Inc. - Tampa, FL Project: Former Norton AFB
Project Number: 393091.NO.02.15.04

Client Sample ID:

LF2Header061015

SW12C-061015

SW12C-061015DD

Lab Sample ID:

SC08805-01

SC08805-02

SC08805-03

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB / 393091.NO.02.15.04

SDG #: 08805

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to EPA TO-15.

IV. PREPARATION

Air samples were prepared according to General Air Prep.

Air samples are to be considered a straight run by injecting 200mL of sample. This volume is decreased in order to dilute samples; 100mL (2X), 50mL (4X), 10mL (20X), 5mL (40X). Samples requiring a dilution >40X are created by using a dynamic diluter prior to analysis. For those samples associated with dilution factors >40 please refer to the dilution log located in the Data Processing Summary section.

Low level air samples are to be considered a straight run by injecting 1000mL of sample. This volume is decreased in order to dilute samples; 500mL (2X), 100mL (10X), 20mL (50X). Samples requiring a dilution >50 would be processed against a higher calibration curve.

V. INSTRUMENTATION

The following equipment was used to analyze EPA TO-15:

Air2 details: Entech 7016ca Autosampler
Entech 7100 preconcentrator
Agilent 6890 series GC system
Agilent 5973 Network Mass Selective Detector
Column- RTX1 60meters .032ID F 1µm

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria with the following exceptions:

In sample S505798-CCV1:

Analyte percent difference is outside individual acceptance criteria (30), but within overall method allowances.

1,2,4-Trichlorobenzene (-30.3%)
Hexachlorobutadiene (-33.4%)

This affected the following samples:

1511798-BLK1, 1511798-BS1, LF2Header061015

In sample S505839-CCV1:

Analyte percent difference is outside individual acceptance criteria (30), but within overall method allowances.

Benzyl chloride (-34.7%)
Hexachlorobutadiene (-31.6%)

This affected the following samples:

1511883-BLK1, 1511883-BS1, 1511883-DUP1, SW12C-061015, SW12C-061015D

B. Blanks:

All blanks were within the acceptance criteria.

C. Surrogates:

All method criteria were met.

D. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met with the following exceptions:

Benzyl chloride, Hexachlorobutadiene in batch 1511883, sample 1511883-BS1: Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

In batch 1511883 BS:

Benzyl chloride percent recovery 54 (70-130) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SW12C-061015, SW12C-061015D

Hexachlorobutadiene percent recovery 64 (70-130) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SW12C-061015, SW12C-061015D

E. Duplicates:

A duplicate was analyzed.

In batch 1511883 from source sample SW12C-061015 (SC08805-02).

All method criteria were met with the following exceptions:

2-Butanone (MEK) in batch 1511883, sample 1511883-DUP1 from source sample SW12C-061015 (SC08805-02): RPD out of acceptance range.

F. Internal Standards:

Internal standards were within the acceptance criteria.

G. Samples:

All method criteria were met with the following exceptions:

In batch 1511798, sample LF2Header061015 (SC08805-01): Elevated Reporting Limits due to the presence of high levels of non-target analytes; sample may not meet client requested reporting limit for this reason.

H. Dilutions:

The following samples within this SDG were diluted:

LF2Header061015 (SC08805-01): DF = 20



SPECTRUM ANALYTICAL, INC.

EPA TO-15

Sample Summaries

FORM I - AIR ANALYSIS DATA SHEET

EPA TO-15

LF2Header061015

Laboratory: <u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG: <u>08805</u>
Client: <u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project: <u>Former Norton AFB</u>
Project Number: <u>393091.NO.02.15.04</u>	Received: <u>06/15/15 10:30</u>
Matrix: <u>Air</u>	Laboratory ID: <u>SC08805-01</u>
Sampled: <u>06/10/15 15:55</u>	File ID: <u>0880501.D</u>
Dilution Factor: <u>20</u>	Preparation: <u>General Air Prep</u>
Batch: <u>1511798</u>	Sequence: <u>S505798</u>
	Calibration: <u>1506003</u>
	Instrument: <u>Air2</u>
Reported to: <u>MDL</u>	

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
75-71-8	Dichlorodifluoromethane (Freon12)	29.6	146.3656	
74-87-3	Chloromethane	6.12	12.6405	U
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	20.2	141.1935	
75-01-4	Vinyl chloride	7.70	19.6830	U
74-83-9	Bromomethane	6.62	25.6948	U
75-00-3	Chloroethane	8.54	22.5288	U
67-64-1	Acetone	49.8	118.3386	
75-69-4	Trichlorofluoromethane (Freon 11)	6.98	39.2250	U
75-35-4	1,1-Dichloroethene	7.96	31.5796	U
75-09-2	Methylene chloride	8.16	28.3347	U
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	7.56	57.9445	U
75-15-0	Carbon disulfide	9.46	29.4440	U
156-60-5	trans-1,2-Dichloroethene	7.40	29.3427	U
75-34-3	1,1-Dichloroethane	7.14	28.9104	U
78-93-3	2-Butanone (MEK)	8.70	25.6552	U
156-59-2	cis-1,2-Dichloroethene	11.0	43.6176	
67-66-3	Chloroform	8.08	39.3260	U
107-06-2	1,2-Dichloroethane	9.54	38.6282	U
71-55-6	1,1,1-Trichloroethane	4.98	27.1710	U
71-43-2	Benzene	26.0	82.9448	
56-23-5	Carbon tetrachloride	6.96	43.7811	U
78-87-5	1,2-Dichloropropane	9.80	45.2924	U
75-27-4	Bromodichloromethane	6.22	41.6702	U
79-01-6	Trichloroethene	8.16	43.8537	U
108-10-1	4-Methyl-2-pentanone (MIBK)	5.58	22.8677	U
10061-01-5	cis-1,3-Dichloropropene	7.50	34.0491	U
10061-02-6	trans-1,3-Dichloropropene	6.48	29.4184	U
79-00-5	1,1,2-Trichloroethane	7.04	38.4105	U
108-88-3	Toluene	7.30	27.4683	U
591-78-6	2-Hexanone (MBK)	9.12	37.3752	U
124-48-1	Dibromochloromethane	7.68	65.4292	U
106-93-4	1,2-Dibromoethane (EDB)	8.46	65.0157	U
127-18-4	Tetrachloroethene	6.82	46.2477	U
108-90-7	Chlorobenzene	85.8	395.1362	
100-41-4	Ethylbenzene	84.4	365.9059	
179601-23-1	m,p-Xylene	48.2	208.9652	
75-25-2	Bromoform	6.22	64.2861	U
100-42-5	Styrene	6.78	28.8393	24 U

FORM I - AIR ANALYSIS DATA SHEET

EPA TO-15

LF2Header061015

Laboratory: <u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG: <u>08805</u>
Client: <u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project: <u>Former Norton AFB</u>
Project Number: <u>393091.NO.02.15.04</u>	Received: <u>06/15/15 10:30</u>
Matrix: <u>Air</u>	Laboratory ID: <u>SC08805-01</u>
Sampled: <u>06/10/15 15:55</u>	File ID: <u>0880501.D</u>
Dilution Factor: <u>20</u>	Preparation: <u>General Air Prep</u>
Batch: <u>1511798</u>	Sequence: <u>S505798</u>
Reported to: <u>MDL</u>	Calibration: <u>1506003</u>
	Instrument: <u>Air2</u>

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
95-47-6	<u>o-Xylene</u>	8.02	34.7697	U
79-34-5	<u>1,1,2,2-Tetrachloroethane</u>	7.74	53.1512	U
108-67-8	<u>1,3,5-Trimethylbenzene</u>	6.76	33.2332	U
622-96-8	<u>4-Ethyltoluene</u>	5.76	28.3171	U
95-63-6	<u>1,2,4-Trimethylbenzene</u>	29.6	145.5182	
541-73-1	<u>1,3-Dichlorobenzene</u>	6.54	39.3202	U
100-44-7	<u>Benzyl chloride</u>	8.96	46.1742	U
106-46-7	<u>1,4-Dichlorobenzene</u>	60.8	365.5460	
95-50-1	<u>1,2-Dichlorobenzene</u>	6.02	36.1939	U
120-82-1	<u>1,2,4-Trichlorobenzene</u>	5.46	40.5313	U
87-68-3	<u>Hexachlorobutadiene</u>	5.66	60.3502	U
108-05-4	<u>Vinyl acetate</u>	7.92	27.8868	U

FORM I - AIR ANALYSIS DATA SHEET

EPA TO-15

SW12C-061015

Laboratory: <u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG: <u>08805</u>
Client: <u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project: <u>Former Norton AFB</u>
Project Number: <u>393091.NO.02.15.04</u>	Received: <u>06/15/15 10:30</u>
Matrix: <u>Air</u>	Laboratory ID: <u>SC08805-02</u>
Sampled: <u>06/10/15 16:20</u>	File ID: <u>0880502.D</u>
Dilution Factor: <u>1</u>	Preparation: <u>General Air Prep</u>
Batch: <u>1511883</u>	Sequence: <u>S505839</u>
	Calibration: <u>1506003</u>
	Instrument: <u>Air2</u>
Reported to: <u>MDL</u>	

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
75-71-8	Dichlorodifluoromethane (Freon12)	4.66	23.0427	
74-87-3	Chloromethane	0.306	0.6320	U
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	9.34	65.2845	
75-01-4	Vinyl chloride	0.385	0.9842	U
74-83-9	Bromomethane	0.331	1.2847	U
75-00-3	Chloroethane	0.427	1.1264	U
67-64-1	Acetone	7.50	17.8221	
75-69-4	Trichlorofluoromethane (Freon 11)	19.1	107.3350	
75-35-4	1,1-Dichloroethene	0.398	1.5790	U
75-09-2	Methylene chloride	0.780	2.7085	
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.378	2.8972	U
75-15-0	Carbon disulfide	0.473	1.4722	U
156-60-5	trans-1,2-Dichloroethene	0.370	1.4671	U
75-34-3	1,1-Dichloroethane	0.610	2.4699	
78-93-3	2-Butanone (MEK)	0.460	1.3565	J
156-59-2	cis-1,2-Dichloroethene	0.379	1.5028	U
67-66-3	Chloroform	0.890	4.3317	
107-06-2	1,2-Dichloroethane	0.477	1.9314	U
71-55-6	1,1,1-Trichloroethane	2.37	12.9308	
71-43-2	Benzene	0.398	1.2697	U
56-23-5	Carbon tetrachloride	0.348	2.1891	U
78-87-5	1,2-Dichloropropane	0.490	2.2646	U
75-27-4	Bromodichloromethane	0.311	2.0835	U
79-01-6	Trichloroethene	0.408	2.1927	U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.279	1.1434	U
10061-01-5	cis-1,3-Dichloropropene	0.375	1.7025	U
10061-02-6	trans-1,3-Dichloropropene	0.324	1.4709	U
79-00-5	1,1,2-Trichloroethane	0.352	1.9205	U
108-88-3	Toluene	0.550	2.0695	
591-78-6	2-Hexanone (MBK)	0.456	1.8688	U
124-48-1	Dibromochloromethane	0.384	3.2715	U
106-93-4	1,2-Dibromoethane (EDB)	0.423	3.2508	U
127-18-4	Tetrachloroethene	2.84	19.2586	
108-90-7	Chlorobenzene	0.430	1.9803	U
100-41-4	Ethylbenzene	0.451	1.9553	U
179601-23-1	m,p-Xylene	0.807	3.4987	U
75-25-2	Bromoform	0.311	3.2143	U
100-42-5	Styrene	3515608	1.4420	26 U

FORM I - AIR ANALYSIS DATA SHEET

EPA TO-15

SW12C-061015

Laboratory: <u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG: <u>08805</u>
Client: <u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project: <u>Former Norton AFB</u>
Project Number: <u>393091.NO.02.15.04</u>	Received: <u>06/15/15 10:30</u>
Matrix: <u>Air</u>	Laboratory ID: <u>SC08805-02</u>
Sampled: <u>06/10/15 16:20</u>	File ID: <u>0880502.D</u>
Dilution Factor: <u>1</u>	Preparation: <u>General Air Prep</u>
Batch: <u>1511883</u>	Sequence: <u>S505839</u>
Reported to: <u>MDL</u>	Calibration: <u>1506003</u>
	Instrument: <u>Air2</u>

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
95-47-6	<u>o-Xylene</u>	0.401	1.7385	U
79-34-5	<u>1,1,2,2-Tetrachloroethane</u>	0.387	2.6576	U
108-67-8	<u>1,3,5-Trimethylbenzene</u>	0.338	1.6617	U
622-96-8	<u>4-Ethyltoluene</u>	0.288	1.4159	U
95-63-6	<u>1,2,4-Trimethylbenzene</u>	0.390	1.9173	U
541-73-1	<u>1,3-Dichlorobenzene</u>	0.327	1.9660	U
100-44-7	<u>Benzyl chloride</u>	0.448	2.3087	U
106-46-7	<u>1,4-Dichlorobenzene</u>	0.710	4.2687	
95-50-1	<u>1,2-Dichlorobenzene</u>	0.301	1.8097	U
120-82-1	<u>1,2,4-Trichlorobenzene</u>	0.273	2.0266	U
87-68-3	<u>Hexachlorobutadiene</u>	0.283	3.0175	U
108-05-4	<u>Vinyl acetate</u>	0.396	1.3943	U

FORM I - AIR ANALYSIS DATA SHEET

EPA TO-15

SW12C-061015DD

Laboratory: <u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG: <u>08805</u>
Client: <u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project: <u>Former Norton AFB</u>
Project Number: <u>393091.NO.02.15.04</u>	Received: <u>06/15/15 10:30</u>
Matrix: <u>Air</u>	Laboratory ID: <u>SC08805-03</u>
Sampled: <u>06/10/15 15:10</u>	File ID: <u>0880503.D</u>
Dilution Factor: <u>1</u>	Preparation: <u>General Air Prep</u>
Batch: <u>1511883</u>	Sequence: <u>S505839</u>
	Calibration: <u>1506003</u>
	Instrument: <u>Air2</u>
Reported to: <u>MDL</u>	

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
75-71-8	Dichlorodifluoromethane (Freon12)	3.86	19.0869	
74-87-3	Chloromethane	0.306	0.6320	U
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	7.60	53.1223	
75-01-4	Vinyl chloride	0.385	0.9842	U
74-83-9	Bromomethane	0.331	1.2847	U
75-00-3	Chloroethane	0.427	1.1264	U
67-64-1	Acetone	5.40	12.8319	
75-69-4	Trichlorofluoromethane (Freon 11)	15.8	88.7902	
75-35-4	1,1-Dichloroethene	0.398	1.5790	U
75-09-2	Methylene chloride	0.820	2.8474	
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.378	2.8972	U
75-15-0	Carbon disulfide	0.473	1.4722	U
156-60-5	trans-1,2-Dichloroethene	0.370	1.4671	U
75-34-3	1,1-Dichloroethane	0.560	2.2675	
78-93-3	2-Butanone (MEK)	0.435	1.2828	U
156-59-2	cis-1,2-Dichloroethene	0.379	1.5028	U
67-66-3	Chloroform	0.660	3.2123	
107-06-2	1,2-Dichloroethane	0.477	1.9314	U
71-55-6	1,1,1-Trichloroethane	2.32	12.6580	
71-43-2	Benzene	0.398	1.2697	U
56-23-5	Carbon tetrachloride	0.348	2.1891	U
78-87-5	1,2-Dichloropropane	0.490	2.2646	U
75-27-4	Bromodichloromethane	0.311	2.0835	U
79-01-6	Trichloroethene	0.408	2.1927	U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.279	1.1434	U
10061-01-5	cis-1,3-Dichloropropene	0.375	1.7025	U
10061-02-6	trans-1,3-Dichloropropene	0.324	1.4709	U
79-00-5	1,1,2-Trichloroethane	0.352	1.9205	U
108-88-3	Toluene	0.365	1.3734	U
591-78-6	2-Hexanone (MBK)	0.456	1.8688	U
124-48-1	Dibromochloromethane	0.384	3.2715	U
106-93-4	1,2-Dibromoethane (EDB)	0.423	3.2508	U
127-18-4	Tetrachloroethene	2.48	16.8173	
108-90-7	Chlorobenzene	0.430	1.9803	U
100-41-4	Ethylbenzene	0.451	1.9553	U
179601-23-1	m,p-Xylene	0.807	3.4987	U
75-25-2	Bromoform	0.311	3.2143	U
100-42-5	Styrene	3515608	1.4420	28 U

FORM I - AIR ANALYSIS DATA SHEET

EPA TO-15

SW12C-061015DD

Laboratory: <u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG: <u>08805</u>
Client: <u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project: <u>Former Norton AFB</u>
Project Number: <u>393091.NO.02.15.04</u>	Received: <u>06/15/15 10:30</u>
Matrix: <u>Air</u>	Laboratory ID: <u>SC08805-03</u>
Sampled: <u>06/10/15 15:10</u>	File ID: <u>0880503.D</u>
Dilution Factor: <u>1</u>	Preparation: <u>General Air Prep</u>
Batch: <u>1511883</u>	Sequence: <u>S505839</u>
Reported to: <u>MDL</u>	Calibration: <u>1506003</u>
	Instrument: <u>Air2</u>

CAS NO.	COMPOUND	CONC. (ppbv)	CONC. (ug/m3)	Q
95-47-6	<u>o-Xylene</u>	0.401	1.7385	U
79-34-5	<u>1,1,2,2-Tetrachloroethane</u>	0.387	2.6576	U
108-67-8	<u>1,3,5-Trimethylbenzene</u>	0.338	1.6617	U
622-96-8	<u>4-Ethyltoluene</u>	0.288	1.4159	U
95-63-6	<u>1,2,4-Trimethylbenzene</u>	0.390	1.9173	U
541-73-1	<u>1,3-Dichlorobenzene</u>	0.327	1.9660	U
100-44-7	<u>Benzyl chloride</u>	0.448	2.3087	U
106-46-7	<u>1,4-Dichlorobenzene</u>	0.337	2.0261	U
95-50-1	<u>1,2-Dichlorobenzene</u>	0.301	1.8097	U
120-82-1	<u>1,2,4-Trichlorobenzene</u>	0.273	2.0266	U
87-68-3	<u>Hexachlorobutadiene</u>	0.283	3.0175	U
108-05-4	<u>Vinyl acetate</u>	0.396	1.3943	U



SPECTRUM ANALYTICAL, INC.

EPA TO-15

QC Summaries

FORM II - SURROGATE STANDARD RECOVERY SUMMARY

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Spike ID: 14L0720

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
Blank (1511798-BLK1)	98						0
LCS (1511798-BS1)	114						0
Calibration Check (S505798-CCV1)	116						0
LF2Header061015 (SC08805-01)	117						0

Control Limits

S1 = 4-Bromofluorobenzene

70 - 130

Column to be used to flag recovery values

* Values outside of QC limits

FORM II - SURROGATE STANDARD RECOVERY SUMMARY

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Spike ID: 14L0720

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
Blank (1511883-BLK1)	96						0
LCS (1511883-BS1)	108						0
Duplicate (1511883-DUP1)	97						0
Calibration Check (S505839-CCV1)	116						0
SW12C-061015 (SC08805-02)	98						0
SW12C-061015DD (SC08805-03)	96						0

Control Limits

S1 = 4-Bromofluorobenzene

70 - 130

Column to be used to flag recovery values

* Values outside of QC limits

FORM IIIa - LCS / LCS DUPLICATE RECOVERY
EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Matrix: Air
 Batch: 1511798
 Preparation: General Air Prep
 Analyzed: 06/16/15 09:36

SDG: 08805
 Project: Former Norton AFB
 Instrument: Air2
 Laboratory ID: 1511798-BS1
 Initial/Final: 200 ml / 200 ml
 Spike ID: 15F0162
 File ID: LCS0616A.D

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane (Freon12)	10.0	9.51	95	70 - 130
Chloromethane	10.0	10.8	108	70 - 130
1,2-Dichlorotetrafluoroethane (Freon 114)	10.0	10.7	107	70 - 130
Vinyl chloride	10.0	10.6	106	70 - 130
Bromomethane	10.0	10.8	108	70 - 130
Chloroethane	10.0	11.0	110	70 - 130
Acetone	10.0	11.5	115	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	12.0	120	70 - 130
1,1-Dichloroethene	10.0	11.9	119	70 - 130
Methylene chloride	10.0	12.8	128	70 - 130
1,1,2-Trichlorotrifluoroethane (Freon 113)	10.0	12.9	129	70 - 130
Carbon disulfide	10.0	11.8	118	70 - 130
trans-1,2-Dichloroethene	10.0	9.17	92	70 - 130
1,1-Dichloroethane	10.0	9.03	90	70 - 130
2-Butanone (MEK)	10.0	9.35	94	70 - 130
cis-1,2-Dichloroethene	10.0	9.89	99	70 - 130
Chloroform	10.0	9.00	90	70 - 130
1,2-Dichloroethane	10.0	9.77	98	70 - 130
1,1,1-Trichloroethane	10.0	8.50	85	70 - 130
Benzene	10.0	9.04	90	70 - 130
Carbon tetrachloride	10.0	7.97	80	70 - 130
1,2-Dichloropropane	10.0	9.45	94	70 - 130
Bromodichloromethane	10.0	9.14	91	70 - 130
Trichloroethene	10.0	9.32	93	70 - 130
4-Methyl-2-pentanone (MIBK)	10.0	9.33	93	70 - 130
cis-1,3-Dichloropropene	10.0	9.06	91	70 - 130
trans-1,3-Dichloropropene	10.0	8.62	86	70 - 130
1,1,2-Trichloroethane	10.0	9.48	95	70 - 130
Toluene	10.0	10.3	103	70 - 130
2-Hexanone (MBK)	10.0	8.48	85	70 - 130

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FORM IIIa - LCS / LCS DUPLICATE RECOVERY
EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Matrix: Air
 Batch: 1511798
 Preparation: General Air Prep
 Analyzed: 06/16/15 09:36

SDG: 08805
 Project: Former Norton AFB
 Instrument: Air2
 Laboratory ID: 1511798-BS1
 Initial/Final: 200 ml / 200 ml
 Spike ID: 15F0162
 File ID: LCS0616A.D

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
Dibromochloromethane	10.0	9.06	91	70 - 130
1,2-Dibromoethane (EDB)	10.0	9.26	93	70 - 130
Tetrachloroethene	10.0	8.58	86	70 - 130
Chlorobenzene	10.0	10.1	101	70 - 130
Ethylbenzene	10.0	9.57	96	70 - 130
m,p-Xylene	20.0	19.8	99	70 - 130
Bromoform	10.0	9.43	94	70 - 130
Styrene	10.0	9.33	93	70 - 130
o-Xylene	10.0	11.0	110	70 - 130
1,1,2,2-Tetrachloroethane	10.0	12.2	122	70 - 130
1,3,5-Trimethylbenzene	10.0	11.4	114	70 - 130
4-Ethyltoluene	10.0	9.82	98	70 - 130
1,2,4-Trimethylbenzene	10.0	10.5	105	70 - 130
1,3-Dichlorobenzene	10.0	10.3	103	70 - 130
Benzyl chloride	10.0	8.03	80	70 - 130
1,4-Dichlorobenzene	10.0	9.03	90	70 - 130
1,2-Dichlorobenzene	10.0	9.86	99	70 - 130
1,2,4-Trichlorobenzene	10.0	7.01	70	70 - 130
Hexachlorobutadiene	10.0	8.74	87	70 - 130
Vinyl acetate	10.0	8.69	87	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIa - LCS / LCS DUPLICATE RECOVERY
EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Matrix: Air
 Batch: 1511883
 Preparation: General Air Prep
 Analyzed: 06/17/15 10:16

SDG: 08805
 Project: Former Norton AFB
 Instrument: Air2
 Laboratory ID: 1511883-BS1
 Initial/Final: 200 ml / 200 ml
 Spike ID: 15F0162
 File ID: CCC0617B.D

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
Dichlorodifluoromethane (Freon12)	10.0	9.26	93	70 - 130
Chloromethane	10.0	10.4	104	70 - 130
1,2-Dichlorotetrafluoroethane (Freon 114)	10.0	10.2	102	70 - 130
Vinyl chloride	10.0	10.1	101	70 - 130
Bromomethane	10.0	10.5	105	70 - 130
Chloroethane	10.0	10.6	106	70 - 130
Acetone	10.0	11.8	118	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	11.7	117	70 - 130
1,1-Dichloroethene	10.0	11.9	119	70 - 130
Methylene chloride	10.0	12.6	126	70 - 130
1,1,2-Trichlorotrifluoroethane (Freon 113)	10.0	12.8	128	70 - 130
Carbon disulfide	10.0	11.9	119	70 - 130
trans-1,2-Dichloroethene	10.0	8.87	89	70 - 130
1,1-Dichloroethane	10.0	8.72	87	70 - 130
2-Butanone (MEK)	10.0	9.07	91	70 - 130
cis-1,2-Dichloroethene	10.0	9.47	95	70 - 130
Chloroform	10.0	8.69	87	70 - 130
1,2-Dichloroethane	10.0	9.41	94	70 - 130
1,1,1-Trichloroethane	10.0	8.15	82	70 - 130
Benzene	10.0	8.65	86	70 - 130
Carbon tetrachloride	10.0	7.71	77	70 - 130
1,2-Dichloropropane	10.0	9.11	91	70 - 130
Bromodichloromethane	10.0	8.81	88	70 - 130
Trichloroethene	10.0	9.10	91	70 - 130
4-Methyl-2-pentanone (MIBK)	10.0	9.18	92	70 - 130
cis-1,3-Dichloropropene	10.0	8.76	88	70 - 130
trans-1,3-Dichloropropene	10.0	8.26	83	70 - 130
1,1,2-Trichloroethane	10.0	9.24	92	70 - 130
Toluene	10.0	10.0	100	70 - 130
2-Hexanone (MBK)	10.0	8.33	83	70 - 130

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FORM IIIa - LCS / LCS DUPLICATE RECOVERY
EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Matrix: Air
 Batch: 1511883
 Preparation: General Air Prep
 Analyzed: 06/17/15 10:16

SDG: 08805
 Project: Former Norton AFB
 Instrument: Air2
 Laboratory ID: 1511883-BS1
 Initial/Final: 200 ml / 200 ml
 Spike ID: 15F0162
 File ID: CCC0617B.D

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
Dibromochloromethane	10.0	8.71	87	70 - 130
1,2-Dibromoethane (EDB)	10.0	9.07	91	70 - 130
Tetrachloroethene	10.0	8.38	84	70 - 130
Chlorobenzene	10.0	10.2	102	70 - 130
Ethylbenzene	10.0	9.68	97	70 - 130
m,p-Xylene	20.0	20.0	100	70 - 130
Bromoform	10.0	8.98	90	70 - 130
Styrene	10.0	9.36	94	70 - 130
o-Xylene	10.0	10.9	109	70 - 130
1,1,2,2-Tetrachloroethane	10.0	12.0	120	70 - 130
1,3,5-Trimethylbenzene	10.0	9.32	93	70 - 130
4-Ethyltoluene	10.0	9.72	97	70 - 130
1,2,4-Trimethylbenzene	10.0	10.3	103	70 - 130
1,3-Dichlorobenzene	10.0	10.3	103	70 - 130
Benzyl chloride	10.0	5.40	54 *	70 - 130
1,4-Dichlorobenzene	10.0	8.97	90	70 - 130
1,2-Dichlorobenzene	10.0	9.82	98	70 - 130
1,2,4-Trichlorobenzene	10.0	7.36	74	70 - 130
Hexachlorobutadiene	10.0	6.41	64 *	70 - 130
Vinyl acetate	10.0	7.83	78	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIc - DUPLICATES

SW12C-061015

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Matrix: Air

Laboratory ID: 1511883-DUP1

Batch: 1511883

Lab Source ID: SC08805-02

Preparation: General Air Prep

Initial/Final: 200 ml / 200 ml

Source Sample Name: SW12C-061015

% Solids:

File ID: 0880502D.D

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ppbv)	C	DUPLICATE CONCENTRATION (ppbv)	C	RPD %	Q	METHOD
Dichlorodifluoromethane (Freon12)	25	4.66		4.53		3		EPA TO-15
Chloromethane	25	BRL		BDL				EPA TO-15
1,2-Dichlorotetrafluoroethane (Freon 1	25	9.34		9.08		3		EPA TO-15
Vinyl chloride	25	BRL		BDL				EPA TO-15
Bromomethane	25	BRL		BDL				EPA TO-15
Chloroethane	25	BRL		BDL				EPA TO-15
Acetone	25	7.50		7.40		1		EPA TO-15
Trichlorofluoromethane (Freon 11)	25	19.1		18.5		3		EPA TO-15
1,1-Dichloroethene	25	BRL		BDL				EPA TO-15
Methylene chloride	25	0.780		0.780		0		EPA TO-15
1,1,2-Trichlorotrifluoroethane (Freon 1	25	BRL		BDL				EPA TO-15
Carbon disulfide	25	BRL		BDL				EPA TO-15
trans-1,2-Dichloroethene	25	BRL		BDL				EPA TO-15
1,1-Dichloroethane	25	0.610		0.600		2		EPA TO-15
2-Butanone (MEK)	25	0.460		0.620		30	*	EPA TO-15
cis-1,2-Dichloroethene	25	BRL		BDL				EPA TO-15
Chloroform	25	0.890		0.920		3		EPA TO-15
1,2-Dichloroethane	25	BRL		BDL				EPA TO-15
1,1,1-Trichloroethane	25	2.37		2.36		0.4		EPA TO-15
Benzene	25	BRL		BDL				EPA TO-15
Carbon tetrachloride	25	BRL		BDL				EPA TO-15
1,2-Dichloropropane	25	BRL		BDL				EPA TO-15
Bromodichloromethane	25	BRL		BDL				EPA TO-15
Trichloroethene	25	BRL		BDL				EPA TO-15
4-Methyl-2-pentanone (MIBK)	25	BRL		BDL				EPA TO-15
cis-1,3-Dichloropropene	25	BRL		BDL				EPA TO-15
trans-1,3-Dichloropropene	25	BRL		BDL				EPA TO-15
1,1,2-Trichloroethane	25	BRL		BDL				EPA TO-15
Toluene	25	0.550	3515608	0.550		0		EPA TO-15

FORM IIIc - DUPLICATES

SW12C-061015

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Matrix: Air

Laboratory ID: 1511883-DUP1

Batch: 1511883

Lab Source ID: SC08805-02

Preparation: General Air Prep

Initial/Final: 200 ml / 200 ml

Source Sample Name: SW12C-061015

% Solids:

File ID: 0880502D.D

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ppbv)	C	DUPLICATE CONCENTRATION (ppbv)	C	RPD %	Q	METHOD
2-Hexanone (MBK)	25	BRL		BDL				EPA TO-15
Dibromochloromethane	25	BRL		BDL				EPA TO-15
1,2-Dibromoethane (EDB)	25	BRL		BDL				EPA TO-15
Tetrachloroethene	25	2.84		2.73		4		EPA TO-15
Chlorobenzene	25	BRL		BDL				EPA TO-15
Ethylbenzene	25	BRL		BDL				EPA TO-15
m,p-Xylene	25	BRL		BDL				EPA TO-15
Bromoform	25	BRL		BDL				EPA TO-15
Styrene	25	BRL		BDL				EPA TO-15
o-Xylene	25	BRL		BDL				EPA TO-15
1,1,2,2-Tetrachloroethane	25	BRL		BDL				EPA TO-15
1,3,5-Trimethylbenzene	25	BRL		BDL				EPA TO-15
4-Ethyltoluene	25	BRL		BDL				EPA TO-15
1,2,4-Trimethylbenzene	25	BRL		BDL				EPA TO-15
1,3-Dichlorobenzene	25	BRL		BDL				EPA TO-15
Benzyl chloride	25	BRL		BDL				EPA TO-15
1,4-Dichlorobenzene	25	0.710		0.690		3		EPA TO-15
1,2-Dichlorobenzene	25	BRL		BDL				EPA TO-15
1,2,4-Trichlorobenzene	25	BRL		BDL				EPA TO-15
Hexachlorobutadiene	25	BRL		BDL				EPA TO-15
Vinyl acetate	25	BRL		BDL				EPA TO-15

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IV - METHOD BLANK SUMMARY
EPA TO-15

1511798-BLK1

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 08805
Client: Spectrum Analytical, Inc. - Tampa, FL Project: Former Norton AFB
Matrix: Air Laboratory ID: 1511798-BLK1 File ID: BLK0616A.D
 Preparation: General Air Prep Initial/Final: 200 ml / 200 ml
Analyzed: 06/16/15 13:02 Instrument: Air2
Batch: 1511798 Sequence: S505798 Calibration: 1506003

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1511798-BS1	LCS0616A.D	06/16/15	9:36
LF2Header061015	SC08805-01	0880501.D	06/17/15	1:11

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1511798-BLK1

Laboratory:	<u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG:	<u>08805</u>
Client:	<u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project:	<u>Former Norton AFB</u>
Matrix:	<u>Air</u>	Laboratory ID:	<u>1511798-BLK1</u>
		File ID:	<u>BLK0616A.D</u>
		Preparation:	<u>General Air Prep</u>
		Initial/Final:	<u>200 ml / 200 ml</u>
Analyzed:	<u>06/16/15 13:02</u>	Instrument:	<u>Air2</u>
Batch:	<u>1511798</u>	Sequence:	<u>S505798</u>
		Calibration:	<u>1506003</u>

CAS NO.	COMPOUND	CONC. (ppbv)	Q
75-71-8	Dichlorodifluoromethane (Freon12)	0.457	U
74-87-3	Chloromethane	0.306	U
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.492	U
75-01-4	Vinyl chloride	0.385	U
74-83-9	Bromomethane	0.331	U
75-00-3	Chloroethane	0.427	U
67-64-1	Acetone	0.359	U
75-69-4	Trichlorofluoromethane (Freon 11)	0.349	U
75-35-4	1,1-Dichloroethene	0.398	U
75-09-2	Methylene chloride	0.408	U
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.378	U
75-15-0	Carbon disulfide	0.473	U
156-60-5	trans-1,2-Dichloroethene	0.370	U
75-34-3	1,1-Dichloroethane	0.357	U
78-93-3	2-Butanone (MEK)	0.435	U
156-59-2	cis-1,2-Dichloroethene	0.379	U
67-66-3	Chloroform	0.404	U
107-06-2	1,2-Dichloroethane	0.477	U
71-55-6	1,1,1-Trichloroethane	0.249	U
71-43-2	Benzene	0.398	U
56-23-5	Carbon tetrachloride	0.348	U
78-87-5	1,2-Dichloropropane	0.490	U
75-27-4	Bromodichloromethane	0.311	U
79-01-6	Trichloroethene	0.408	U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.279	U
10061-01-5	cis-1,3-Dichloropropene	0.375	U
10061-02-6	trans-1,3-Dichloropropene	0.324	U
79-00-5	1,1,2-Trichloroethane	0.352	U
108-88-3	Toluene	0.365	U
591-78-6	2-Hexanone (MBK)	0.456	U
124-48-1	Dibromochloromethane	0.384	U
106-93-4	1,2-Dibromoethane (EDB)	3515608 0.423	40 U

FORM I - AIR ANALYSIS DATA SHEET

EPA TO-15

1511798-BLK1

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 08805
 Client: Spectrum Analytical, Inc. - Tampa, FL Project: Former Norton AFB
 Matrix: Air Laboratory ID: 1511798-BLK1 File ID: BLK0616A.D
 Preparation: General Air Prep Initial/Final: 200 ml / 200 ml
 Analyzed: 06/16/15 13:02 Instrument: Air2
 Batch: 1511798 Sequence: S505798 Calibration: 1506003

CAS NO.	COMPOUND	CONC. (ppbv)	Q
127-18-4	Tetrachloroethene	0.341	U
108-90-7	Chlorobenzene	0.430	U
100-41-4	Ethylbenzene	0.451	U
179601-23-1	m,p-Xylene	0.807	U
75-25-2	Bromoform	0.311	U
100-42-5	Styrene	0.339	U
95-47-6	o-Xylene	0.401	U
79-34-5	1,1,2,2-Tetrachloroethane	0.387	U
108-67-8	1,3,5-Trimethylbenzene	0.338	U
622-96-8	4-Ethyltoluene	0.288	U
95-63-6	1,2,4-Trimethylbenzene	0.390	U
541-73-1	1,3-Dichlorobenzene	0.327	U
100-44-7	Benzyl chloride	0.448	U
106-46-7	1,4-Dichlorobenzene	0.337	U
95-50-1	1,2-Dichlorobenzene	0.301	U
120-82-1	1,2,4-Trichlorobenzene	0.273	U
87-68-3	Hexachlorobutadiene	0.283	U
108-05-4	Vinyl acetate	0.396	U

FORM IV - METHOD BLANK SUMMARY
EPA TO-15

1511883-BLK1

Laboratory:	<u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG:	<u>08805</u>
Client:	<u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project:	<u>Former Norton AFB</u>
Matrix:	<u>Air</u>	Laboratory ID:	<u>1511883-BLK1</u>
		File ID:	<u>BLK0617A.D</u>
		Preparation:	<u>General Air Prep</u>
		Initial/Final:	<u>200 ml / 200 ml</u>
Analyzed:	<u>06/17/15 13:26</u>	Instrument:	<u>Air2</u>
Batch:	<u>1511883</u>	Sequence:	<u>S505839</u>
		Calibration:	<u>1506003</u>

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1511883-BS1	CCC0617B.D	06/17/15	10:16
SW12C-061015	SC08805-02	0880502.D	06/17/15	17:23
Duplicate	1511883-DUP1	0880502D.D	06/17/15	18:08
SW12C-061015DD	SC08805-03	0880503.D	06/17/15	18:53

FORM I - AIR ANALYSIS DATA SHEET
EPA TO-15

1511883-BLK1

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 08805
 Client: Spectrum Analytical, Inc. - Tampa, FL Project: Former Norton AFB
 Matrix: Air Laboratory ID: 1511883-BLK1 File ID: BLK0617A.D
 Preparation: General Air Prep Initial/Final: 200 ml / 200 ml
 Analyzed: 06/17/15 13:26 Instrument: Air2
 Batch: 1511883 Sequence: S505839 Calibration: 1506003

CAS NO.	COMPOUND	CONC. (ppbv)	Q
75-71-8	Dichlorodifluoromethane (Freon12)	0.457	U
74-87-3	Chloromethane	0.306	U
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.492	U
75-01-4	Vinyl chloride	0.385	U
74-83-9	Bromomethane	0.331	U
75-00-3	Chloroethane	0.427	U
67-64-1	Acetone	0.359	U
75-69-4	Trichlorofluoromethane (Freon 11)	0.349	U
75-35-4	1,1-Dichloroethene	0.398	U
75-09-2	Methylene chloride	0.408	U
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	0.378	U
75-15-0	Carbon disulfide	0.473	U
156-60-5	trans-1,2-Dichloroethene	0.370	U
75-34-3	1,1-Dichloroethane	0.357	U
78-93-3	2-Butanone (MEK)	0.435	U
156-59-2	cis-1,2-Dichloroethene	0.379	U
67-66-3	Chloroform	0.404	U
107-06-2	1,2-Dichloroethane	0.477	U
71-55-6	1,1,1-Trichloroethane	0.249	U
71-43-2	Benzene	0.398	U
56-23-5	Carbon tetrachloride	0.348	U
78-87-5	1,2-Dichloropropane	0.490	U
75-27-4	Bromodichloromethane	0.311	U
79-01-6	Trichloroethene	0.408	U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.279	U
10061-01-5	cis-1,3-Dichloropropene	0.375	U
10061-02-6	trans-1,3-Dichloropropene	0.324	U
79-00-5	1,1,2-Trichloroethane	0.352	U
108-88-3	Toluene	0.365	U
591-78-6	2-Hexanone (MBK)	0.456	U
124-48-1	Dibromochloromethane	0.384	U
106-93-4	1,2-Dibromoethane (EDB)	0.423	43 U

FORM V - MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Lab File ID: 0529CAL1.D
 Instrument ID: Air2
 Sequence: S505275

SDG: 08805
 Project: Former Norton AFB
 Analyzed: 05/29/15 17:17
 Lab Sample ID: S505275-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.5	PASS
75	30 - 60% of 95	43.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.1	PASS
173	Less than 2% of 174	.63	PASS
174	50 - 100% of 95	82.6	PASS
175	5 - 9% of 174	7.18	PASS
176	95 - 101% of 174	100	PASS
177	5 - 9% of 176	6.23	PASS

This check applies to the following samples, blanks, and standards:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
S505275-LCV1	Low Cal Check	0529CAL1.D	05/29/15	17:17
S505275-CAL1	Cal Standard	DAPRTMTH-001	05/29/15	17:17
S505275-CAL2	Cal Standard	DAPRTMTH-002	05/29/15	18:44
S505275-CAL3	Cal Standard	DAPRTMTH-003	05/29/15	19:26
S505275-CAL4	Cal Standard	DAPRTMTH-004	05/29/15	20:10
S505275-CAL5	Cal Standard	DAPRTMTH-005	05/29/15	20:54
S505275-CAL6	Cal Standard	DAPRTMTH-006	05/29/15	21:42
S505275-CAL7	Cal Standard	DAPRTMTH-007	05/29/15	22:32
S505275-CAL8	Cal Standard	DAPRTMTH-008	05/29/15	23:30
S505275-ICV1	Initial Cal Check	ICV0529A.D	05/30/15	01:00

FORM V - MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Lab File ID: CCC0616A.D
 Instrument ID: Air2
 Sequence: S505798

SDG: 08805
 Project: Former Norton AFB
 Analyzed: 06/16/15 08:45
 Lab Sample ID: S505798-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.9	PASS
75	30 - 60% of 95	45.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.67	PASS
173	Less than 2% of 174	.586	PASS
174	50 - 100% of 95	84.3	PASS
175	5 - 9% of 174	7.14	PASS
176	95 - 101% of 174	99.5	PASS
177	5 - 9% of 176	6.52	PASS

This check applies to the following samples, blanks, and standards:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
S505798-CCV1	Calibration Check	CCC0616A.D	06/16/15	08:45
1511798-BS1	LCS	LCS0616A.D	06/16/15	09:36
1511798-BLK1	Blank	BLK0616A.D	06/16/15	13:02
SC08805-01	LF2Header061015	0880501.D	06/17/15	01:11

FORM V - MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Lab File ID: CCC0617B.D

Instrument ID: Air2

Analyzed: 06/17/15 10:16

Sequence: S505839

Lab Sample ID: S505839-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.3	PASS
75	30 - 60% of 95	46.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.82	PASS
173	Less than 2% of 174	.396	PASS
174	50 - 100% of 95	83.1	PASS
175	5 - 9% of 174	7.35	PASS
176	95 - 101% of 174	100	PASS
177	5 - 9% of 176	6.45	PASS

This check applies to the following samples, blanks, and standards:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
1511883-BS1	LCS	CCC0617B.D	06/17/15	10:16
S505839-CCV1	Calibration Check	LCS0617A.D	06/17/15	11:20
1511883-BLK1	Blank	BLK0617A.D	06/17/15	13:26
SC08805-02	SW12C-061015	0880502.D	06/17/15	17:23
1511883-DUP1	Duplicate	0880502D.D	06/17/15	18:08
SC08805-03	SW12C-061015DD	0880503.D	06/17/15	18:53

FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Sequence: S505798
 Matrix: Air
 Analyzed: 06/16/15 08:45

SDG: 08805
 Project: Former Norton AFB
 Instrument: Air2
 Calibration: 1506003
 File ID: CCC0616A.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
24-Hour Standard	6525178	11.86	1349224	9.51	2649329	17.91						
Upper Limit	13050356	12.36	2698448	10.01	5298658	18.41						
Lower Limit	3262589	11.36	674612	9.01	1324665	17.41						
Sample ID												
Blank (1511798-BLK1)	6521422	11.86	1412875	9.5	2756082	17.91						
LCS (1511798-BS1)	6282431	11.86	1295006	9.5	2645989	17.91						
LF2Header061015 (SC08805-01)	4291152	11.87	851904	9.51	1991666	17.91						

IS1 = 1,4-Difluorobenzene

IS2 = Bromochloromethane

IS3 = Chlorobenzene-d5

Column to be used to flag internal standard area values

* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Sequence: S505839
 Matrix: Air
 Analyzed: 06/17/15 11:20

SDG: 08805
 Project: Former Norton AFB
 Instrument: Air2
 Calibration: 1506003
 File ID: LCS0617A.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
24-Hour Standard	7976094	11.86	1657985	9.51	3050513	17.91						
Upper Limit	15952188	12.36	3315970	10.01	6101026	18.41						
Lower Limit	3988047	11.36	828993	9.01	1525257	17.41						
Sample ID												
Blank (1511883-BLK1)	9068361	11.87	1802477	9.52	3548952	17.92						
LCS (1511883-BS1)	6317841	11.87	1320775	9.51	2549818	17.92						
Duplicate (1511883-DUP1)	7978801	11.87	1646504	9.52	3486352	17.92						
SW12C-061015 (SC08805-02)	8091378	11.87	1675967	9.52	3600890	17.91						
SW12C-061015DD (SC08805-03)	7681297	11.87	1596241	9.52	3401406	17.91						

IS1 = 1,4-Difluorobenzene

IS2 = Bromochloromethane

IS3 = Chlorobenzene-d5

Column to be used to flag internal standard area values

* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

**FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY**

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Sequence: S505275

Instrument: Air2

Calibration: 1506003

Sample Name	Lab Sample ID	Lab File ID	Analyzed
MS Tune	S505275-TUN1	0529CAL1.D	05/29/15 17:17
Cal Standard	S505275-CAL1	DAPRTMTH-001	05/29/15 17:17
Low Cal Check	S505275-LCV1	0529CAL1.D	05/29/15 17:17
Cal Standard	S505275-CAL2	DAPRTMTH-002	05/29/15 18:44
Cal Standard	S505275-CAL3	DAPRTMTH-003	05/29/15 19:26
Cal Standard	S505275-CAL4	DAPRTMTH-004	05/29/15 20:10
Cal Standard	S505275-CAL5	DAPRTMTH-005	05/29/15 20:54
Cal Standard	S505275-CAL6	DAPRTMTH-006	05/29/15 21:42
Cal Standard	S505275-CAL7	DAPRTMTH-007	05/29/15 22:32
Cal Standard	S505275-CAL8	DAPRTMTH-008	05/29/15 23:30
Initial Cal Check	S505275-ICV1	ICV0529A.D	05/30/15 01:00

**FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY**

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Sequence: S505798

Instrument: Air2

Calibration: 1506003

Sample Name	Lab Sample ID	Lab File ID	Analyzed
MS Tune	S505798-TUN1	CCC0616A.D	06/16/15 08:45
Calibration Check	S505798-CCV1	CCC0616A.D	06/16/15 08:45
LCS	1511798-BS1	LCS0616A.D	06/16/15 09:36
Blank	1511798-BLK1	BLK0616A.D	06/16/15 13:02
LF2Header061015	SC08805-01	0880501.D	06/17/15 01:11

**FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY**

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Sequence: S505839

Instrument: Air2

Calibration: 1506003

Sample Name	Lab Sample ID	Lab File ID	Analyzed
MS Tune	S505839-TUN1	CCC0617B.D	06/17/15 10:16
LCS	1511883-BS1	CCC0617B.D	06/17/15 10:16
Calibration Check	S505839-CCV1	LCS0617A.D	06/17/15 11:20
Blank	1511883-BLK1	BLK0617A.D	06/17/15 13:26
SW12C-061015	SC08805-02	0880502.D	06/17/15 17:23
SW12C-061015	1511883-DUP1	0880502D.D	06/17/15 18:08
SW12C-061015DD	SC08805-03	0880503.D	06/17/15 18:53

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Analyte	MDL (ppbv)	MDL (ug/m3)	MRL (ppbv)	MRL (ug/m3)
Dichlorodifluoromethane (Freon12)	0.457	2.2598	0.500	2.4724
Chloromethane	0.306	0.6320	0.500	1.0327
1,2-Dichlorotetrafluoroethane (Freon 11)	0.492	3.4390	0.500	3.4949
Vinyl chloride	0.385	0.9842	0.500	1.2781
Bromomethane	0.331	1.2847	0.500	1.9407
Chloroethane	0.427	1.1264	0.500	1.3190
Acetone	0.359	0.8531	0.500	1.1881
Trichlorofluoromethane (Freon 11)	0.349	1.9613	0.500	2.8098
1,1-Dichloroethene	0.398	1.5790	0.500	1.9836
Methylene chloride	0.408	1.4167	0.500	1.7362
1,1,2-Trichlorotrifluoroethane (Freon 11)	0.378	2.8972	0.500	3.8323
Carbon disulfide	0.473	1.4722	0.500	1.5562
trans-1,2-Dichloroethene	0.370	1.4671	0.500	1.9826
1,1-Dichloroethane	0.357	1.4455	0.500	2.0245
2-Butanone (MEK)	0.435	1.2828	0.500	1.4744
cis-1,2-Dichloroethene	0.379	1.5028	0.500	1.9826
Chloroform	0.404	1.9663	0.500	2.4335
1,2-Dichloroethane	0.477	1.9314	0.500	2.0245
1,1,1-Trichloroethane	0.249	1.3586	0.500	2.7280
Benzene	0.398	1.2697	0.500	1.5951
Carbon tetrachloride	0.348	2.1891	0.500	3.1452
1,2-Dichloropropane	0.490	2.2646	0.500	2.3108
Bromodichloromethane	0.311	2.0835	0.500	3.3497
Trichloroethene	0.408	2.1927	0.500	2.6871
4-Methyl-2-pentanone (MIBK)	0.279	1.1434	0.500	2.0491
cis-1,3-Dichloropropene	0.375	1.7025	0.500	2.2699
trans-1,3-Dichloropropene	0.324	1.4709	0.500	2.2699
1,1,2-Trichloroethane	0.352	1.9205	0.500	2.7280
Toluene	0.365	1.3734	0.500	1.8814
2-Hexanone (MBK)	0.456	1.8688	0.500	2.0491
Dibromochloromethane	0.384	3.2715	0.500	4.2597
1,2-Dibromoethane (EDB)	0.423	3.2508	0.500	3.8425
Tetrachloroethene	0.341	2.3124	0.500	3.3906
Chlorobenzene	0.430	1.9803	0.500	2.3027
Ethylbenzene	0.451	1.9553	0.500	2.1677
m,p-Xylene	0.807	3.4987	1.00	4.3354
Bromoform	0.311	3.2143	0.500	5.1677
Styrene	0.339	1.4420	0.500	2.1268
o-Xylene	0.401	1.7385	0.500	2.1677

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Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS
EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Analyte	MDL (ppbv)	MDL (ug/m3)	MRL (ppbv)	MRL (ug/m3)
1,1,2,2-Tetrachloroethane	0.387	2.6576	0.500	3.4335
1,3,5-Trimethylbenzene	0.338	1.6617	0.500	2.4581
4-Ethyltoluene	0.288	1.4159	0.500	2.4581
1,2,4-Trimethylbenzene	0.390	1.9173	0.500	2.4581
1,3-Dichlorobenzene	0.327	1.9660	0.500	3.0061
Benzyl chloride	0.448	2.3087	0.500	2.5767
1,4-Dichlorobenzene	0.337	2.0261	0.500	3.0061
1,2-Dichlorobenzene	0.301	1.8097	0.500	3.0061
1,2,4-Trichlorobenzene	0.273	2.0266	0.500	3.7117
Hexachlorobutadiene	0.283	3.0175	0.500	5.3313
Vinyl acetate	0.396	1.3943	10.0	35.2106



SPECTRUM ANALYTICAL, INC.

EPA TO-15

Calibration Summaries

FORM VI - INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Calibration: 1506003

Instrument: Air2

Matrix: Air

Calibration Date: 05/29/15 06:00

File ID: T2052915H.M

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Propene	0.5	1.157537	1	0.7804138	2	0.6080121	5	0.5338583	10	0.5195723	20	0.5053629
Dichlorodifluoromethane (Freon12)	0.5	2.090809	1	2.62866	2	2.301009	5	2.263173	10	2.221158	20	2.2156
Chloromethane	0.5	0.8149621	1	0.9719833	2	0.8486695	5	0.844721	10	0.8251266	20	0.8269922
1,2-Dichlorotetrafluoroethane (Freon 113)	0.5	1.833835	1	2.288331	2	2.011564	5	1.983822	10	1.926489	20	1.878619
Vinyl chloride	0.5	0.8382605	1	1.018561	2	0.9329076	5	0.9007095	10	0.8792178	20	0.8742042
1,3-Butadiene	0.5	0.5904225	1	0.7246335	2	0.6446324	5	0.628007	10	0.6239369	20	0.6208169
Bromomethane	0.5	0.872891	1	1.018115	2	0.8885378	5	0.8568826	10	0.8456993	20	0.8458924
Chloroethane	0.5	0.4193811	1	0.4970722	2	0.435729	5	0.432978	10	0.4174038	20	0.4196084
Acetone	0.5	0.4235088	1	0.38137	2	0.3395726	5	0.3378207	10	0.3404193	20	0.3459662
Trichlorofluoromethane (Freon 111)	0.5	1.934868	1	2.387397	2	2.175116	5	2.106383	10	2.091868	20	2.082281
Ethanol	0.5	0.5966707	1	0.4051654	2	0.3258306	5	0.2204101	10	0.2291734	20	0.2406921
Acrylonitrile	0.5	0.3745262	1	0.3948845	2	0.4004056	5	0.4202295	10	0.4404323	20	0.4208144
1,1-Dichloroethene	0.5	0.6648146	1	0.863469	2	0.7408264	5	0.7076264	10	0.7064432	20	0.7080853
Methylene chloride	0.5	0.6178675	1	0.6743188	2	0.5862542	5	0.5549611	10	0.5418384	20	0.5502466
1,1,2-Trichlorotrifluoroethane (Freon 112)	0.5	1.246991	1	1.597458	2	1.442916	5	1.402874	10	1.383008	20	1.614237
Carbon disulfide	0.5	1.80356	1	2.317024	2	2.073297	5	2.038084	10	2.049537	20	2.356212
trans-1,2-Dichloroethene	0.5	0.9135615	1	1.136149	2	0.9930054	5	0.9990921	10	0.9940293	20	1.007566
1,1-Dichloroethane	0.5	1.684805	1	2.037596	2	1.801743	5	1.774407	10	1.758403	20	1.763842
Methyl tert-butyl ether	0.5	2.275473	1	2.900122	2	2.687114	5	2.593452	10	2.588684	20	2.56546
Isopropyl alcohol	0.5	1.015683	1	1.346874	2	1.214481	5	1.159622	10	1.080618	20	1.114894
2-Butanone (MEK)	0.5	0.350016	1	0.45466	2	0.4464893	5	0.4576727	10	0.4714513	20	0.4797967
cis-1,2-Dichloroethene	0.5	0.9132964	1	1.086754	2	0.9751584	5	0.9547169	10	0.9497265	20	0.9891176
Hexane	0.5	1.749919	1	1.851632	2	1.618914	5	1.594283	10	1.555594	20	1.546809
Ethyl acetate	0.5	0.2954952	1	0.3434099	2	0.333696	5	0.3220496	10	0.3312304	20	0.3277982
Chloroform	0.5	1.830001	1	2.255304	2	2.020891	5	1.964767	10	1.936047	20	1.941616
Tetrahydrofuran	0.5	0.4736274	1	0.4041344	2	0.3880734	5	0.3882737	10	0.3973503	20	0.406049
1,2-Dichloroethane	0.5	0.9913334	1	1.261986	2	1.141357	5	1.130284	10	1.137486	20	1.155198
1,1,1-Trichloroethane	0.5	1.839875	1	2.192799	2	1.954008	5	1.922679	10	1.884879	20	1.877533
Benzene	0.5	2.865716	1	3.524741	2	3.134494	5	3.057039	10	3.043078	20	3.034302
Carbon tetrachloride	0.5	1.858705	1	2.320334	2	2.092812	5	2.018193	10	2.003577	20	2.015821
Cyclohexane	0.5	1.638445	1	1.873659	2	1.704301	5	1.639698	10	1.561811	20	1.551182
1,2-Dichloropropane	0.5	0.2240101	1	0.2670672	2	0.2373799	5	0.2289411	10	0.2304014	20	0.2257346

FORM VI - INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Calibration: 1506003
 Matrix: Air
 File ID: T2052915H.M

SDG: 08805
 Project: Former Norton AFB
 Instrument: Air2
 Calibration Date: 05/29/15 06:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Bromodichloromethane	0.5	0.382503	1	0.4998327	2	0.4420711	5	0.4378521	10	0.4385652	20	0.4300714
Trichloroethene	0.5	0.2627163	1	0.2934391	2	0.2690609	5	0.2586545	10	0.2562283	20	0.2469295
1,4-Dioxane	0.5	0.097691	1	0.1136954	2	9.208411E-02	5	8.626171E-02	10	7.484282E-02	20	7.214011E-02
n-Heptane	0.5	0.1915876	1	0.2199811	2	0.1920097	5	0.1932844	10	0.1910547	20	0.1886232
4-Methyl-2-pentanone (MIBK)	0.5	0.4103383	1	0.5268673	2	0.4878089	5	0.4724506	10	0.4420296	20	0.4374921
cis-1,3-Dichloropropene	0.5	0.2716288	1	0.3552546	2	0.3256103	5	0.3266244	10	0.3326896	20	0.3317051
trans-1,3-Dichloropropene	0.5	0.2314293	1	0.3045355	2	0.2777628	5	0.2880105	10	0.3002432	20	0.3048817
1,1,2-Trichloroethane	0.5	0.2004116	1	0.2313979	2	0.2131406	5	0.2075156	10	0.2081092	20	0.2060679
Toluene	0.5	0.578674	1	0.7099447	2	0.6390849	5	0.6179753	10	0.6538454	20	0.6076987
2-Hexanone (MBK)	0.5	0.1770184	1	0.2350531	2	0.2279285	5	0.2077059	10	0.2202686	20	0.2257184
Dibromochloromethane	0.5	0.3660715	1	0.4589255	2	0.4121623	5	0.4079658	10	0.4169943	20	0.4165753
1,2-Dibromoethane (EDB)	0.5	0.3208669	1	0.4144881	2	0.3692222	5	0.3669061	10	0.3739642	20	0.3725538
Tetrachloroethene	0.5	0.3217293	1	0.3868901	2	0.3353751	5	0.329458	10	0.3315479	20	0.3282975
Chlorobenzene	0.5	1.07524	1	1.350793	2	1.188302	5	1.161678	10	1.152727	20	1.098834
1,1,1,2-Tetrachloroethane	0.5	0.6400574	1	0.7397323	2	0.6799968	5	0.653479	10	0.6491373	20	0.6291036
Ethylbenzene	0.5	1.795172	1	2.279126	2	1.995503	5	1.916268	10	1.907931	20	1.857827
m,p-Xylene	1	0.7126022	2	0.8649817	4	0.7752936	10	0.747808	20	0.7439167	40	0.7091289
Bromoform	0.5	0.6960567	1	0.8409522	2	0.7723136	5	0.7538769	10	0.7686303	20	0.7620531
Styrene	0.5	0.9476068	1	1.209652	2	1.101178	5	1.010881	10	1.026424	20	1.011107
o-Xylene	0.5	0.6234126	1	0.7531545	2	0.6663979	5	0.6699504	10	0.6410736	20	0.6122072
1,1,2,2-Tetrachloroethane	0.5	0.7669224	1	0.9972921	2	0.9002328	5	0.9107852	10	0.8358935	20	0.787094
Isopropylbenzene	0.5	1.794732	1	2.218323	2	1.98941	5	1.920956	10	1.912772	20	1.872444
1,3,5-Trimethylbenzene	0.5	1.529381	1	1.883956	2	1.68688	5	1.583303	10	1.541256	20	1.467331
4-Ethyltoluene	0.5	1.802938	1	2.215754	2	1.999164	5	1.930003	10	1.92016	20	1.859787
1,2,4-Trimethylbenzene	0.5	1.364237	1	1.70703	2	1.546764	5	1.492978	10	1.452459	20	1.394677
Naphthalene	0.5	0.4296273	1	0.6502315	2	0.5900792	5	0.6007199	10	0.6209908	20	0.6309756
1,3-Dichlorobenzene	0.5	0.8611193	1	1.086439	2	0.9996949	5	0.9512982	10	0.926955	20	0.878058
Benzyl chloride	0.5	1.178895	1	1.460283	2	1.29797	5	1.271577	10	1.216248	20	1.105674
1,4-Dichlorobenzene	0.5	0.8991184	1	1.107398	2	1.0632	5	0.9869025	10	0.9459185	20	0.9044208
sec-Butylbenzene	0.5	1.851888	1	2.293094	2	2.094164	5	2.016129	10	2.018209	20	1.930348
4-Isopropyltoluene	0.5	1.464848	1	1.76807	2	1.64471	5	1.586855	10	1.598663	20	1.523975
1,2-Dichlorobenzene	0.5	0.7687958	1	1.000178	2	0.914373	5	0.8655134	10	0.8407888	20	0.7957497

FORM VI - INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Calibration: 1506003

Instrument: Air2

Matrix: Air

Calibration Date: 05/29/15 06:00

File ID: T2052915H.M

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
n-Butylbenzene	0.5	1.206111	1	1.481099	2	1.376037	5	1.331204	10	1.350203	20	1.282627
1,2,4-Trichlorobenzene	0.5	0.296391	1	0.4090964	2	0.3865203	5	0.3785756	10	0.3893914	20	0.3909784
Hexachlorobutadiene	0.5	0.2933132	1	0.3879979	2	0.3539803	5	0.312395	10	0.3042608	20	0.3037104
Vinyl acetate	0.5	0.1989597	1	0.2312754	2	0.21949	5	0.2134372	10	0.2193697	20	0.2228728
1,3-Dichloropropane	0.5	0.2869324	1	0.3544142	2	0.3169119	5	0.307665	10	0.3217439	20	0.3015842
4-Bromofluorobenzene	10	1.228825	10	1.233473	10	1.23687	10	1.221169	10	1.223208	10	1.213453

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Calibration: 1506003
 Matrix: Air
 File ID: T2052915H.M

SDG: 08805
 Project: Former Norton AFB
 Instrument: Air2
 Calibration Date: 05/29/15 06:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Propene	25	0.5058455	50	0.4473531								
Dichlorodifluoromethane (Freon12)	25	2.220332	50	1.917526								
Chloromethane	25	0.8285274	50	0.7471459								
1,2-Dichlorotetrafluoroethane (Freon113)	25	1.856211	50	1.572423								
Vinyl chloride	25	0.8763437	50	0.7654756								
1,3-Butadiene	25	0.6262669	50	0.5570615								
Bromomethane	25	0.8555657	50	0.7530364								
Chloroethane	25	0.4209662	50	0.3793257								
Acetone	25	0.3535839	50	0.3174449								
Trichlorofluoromethane (Freon 11)	25	2.101758	50	1.847497								
Ethanol	25	0.2505555	50	0.2319102								
Acrylonitrile	25	0.4447914	50	0.4170025								
1,1-Dichloroethene	25	0.7171062	50	0.6353396								
Methylene chloride	25	0.5669578	50	0.5038821								
1,1,2-Trichlorotrifluoroethane (Freon 113)	25	1.393149	50	1.206999								
Carbon disulfide	25	2.054759	50	1.807564								
trans-1,2-Dichloroethene	25	1.005835	50	0.893713								
1,1-Dichloroethane	25	1.749652	50	1.538326								
Methyl tert-butyl ether	25	2.553491	50	2.239703								
Isopropyl alcohol	25	1.149292	50	1.043194								
2-Butanone (MEK)	25	0.4812342	50	0.4362143								
cis-1,2-Dichloroethene	25	0.9527793	50	0.8402209								
Hexane	25	1.525145	50	1.264529								
Ethyl acetate	25	0.3276267	50	0.2764927								
Chloroform	25	1.952155	50	1.694447								
Tetrahydrofuran	25	0.4082468	50	0.366458								
1,2-Dichloroethane	25	1.15947	50	1.044383								
1,1,1-Trichloroethane	25	1.882964	50	1.649047								
Benzene	25	3.040258	50	2.635829								
Carbon tetrachloride	25	2.013612	50	1.778241								
Cyclohexane	25	1.601207	50	1.372244								
1,2-Dichloropropane	25	0.2266354	50	0.193785								

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FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Calibration: 1506003
 Matrix: Air
 File ID: T2052915H.M

SDG: 08805
 Project: Former Norton AFB
 Instrument: Air2
 Calibration Date: 05/29/15 06:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Bromodichloromethane	25	0.4312134	50	0.3631447								
Trichloroethene	25	0.2435794	50	0.1962162								
1,4-Dioxane	25	7.157385E-02	50	6.144025E-02								
n-Heptane	25	0.1878816	50	0.1556125								
4-Methyl-2-pentanone (MIBK)	25	0.4429549	50	0.3750575								
cis-1,3-Dichloropropene	25	0.335924	50	0.2842831								
trans-1,3-Dichloropropene	25	0.3067983	50	0.2713857								
1,1,2-Trichloroethane	25	0.2059848	50	0.1750001								
Toluene	25	0.6372787	50	0.5107806								
2-Hexanone (MBK)	25	0.2294146	50	0.19862								
Dibromochloromethane	25	0.4207557	50	0.3636155								
1,2-Dibromoethane (EDB)	25	0.3732355	50	0.3233769								
Tetrachloroethene	25	0.3315357	50	0.2889191								
Chlorobenzene	25	1.080099	50	0.8892519								
1,1,1,2-Tetrachloroethane	25	0.6184025	50	0.5180773								
Ethylbenzene	25	1.832452	50	1.513521								
m,p-Xylene	50	0.7004236	100	0.5775302								
Bromoform	25	0.7627894	50	0.6600303								
Styrene	25	1.001848	50	0.852381								
o-Xylene	25	0.599403	50	0.4895454								
1,1,2,2-Tetrachloroethane	25	0.7634921	50	0.6036158								
Isopropylbenzene	25	1.840926	50	1.524895								
1,3,5-Trimethylbenzene	25	1.442734	50	1.202616								
4-Ethyltoluene	25	1.723124	50	1.469821								
1,2,4-Trimethylbenzene	25	1.369956	50	1.15271								
Naphthalene	25	0.6365415	50	0.5427854								
1,3-Dichlorobenzene	25	0.8163712	50	0.6821787								
Benzyl chloride	25	1.057454	50	0.817196								
1,4-Dichlorobenzene	25	0.8912346	50	0.763572								
sec-Butylbenzene	25	1.886988	50	1.573132								
4-Isopropyltoluene	25	1.49521	50	1.245722								
1,2-Dichlorobenzene	25	0.7773413	50	0.6579171								

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Calibration: 1506003
 Matrix: Air
 File ID: T2052915H.M

SDG: 08805
 Project: Former Norton AFB
 Instrument: Air2
 Calibration Date: 05/29/15 06:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
n-Butylbenzene	25	1.251575	50	1.024796								
1,2,4-Trichlorobenzene	25	0.3990915	50	0.3492395								
Hexachlorobutadiene	25	0.3123912	50	0.2865529								
Vinyl acetate	25	0.2246169	50	0.2013878								
1,3-Dichloropropane	25	0.3133856	50	0.2574614								
4-Bromofluorobenzene	10	1.202947	10	1.159169								

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Calibration: 1506003
 Matrix: Air
 File ID: T2052915H.M

SDG: 08805
 Project: Former Norton AFB
 Instrument: Air2
 Calibration Date: 05/29/15 06:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Propene	0.6322444	37.19483	4.52	2.226925E-02		0.9997135	0.99	
Dichlorodifluoromethane (Freon12)	2.232283	8.998136	4.6	1.978541E-02			30	
Chloromethane	0.838516	7.443625	4.76	8.135761E-03			30	
1,2-Dichlorotetrafluoroethane (Freon 114)	1.918912	10.46293	4.86	2.093293E-02			30	
Vinyl chloride	0.88571	8.216425	4.99	1.942897E-02			30	
1,3-Butadiene	0.6269722	7.654342	5.13	1.999757E-02			30	
Bromomethane	0.8670775	8.436157	5.41	1.372152E-02			30	
Chloroethane	0.4278081	7.666982	5.57	1.260672E-02			30	
Acetone	0.3549608	9.300186	6.19	1.044587E-02			30	
Trichlorofluoromethane (Freon 11)	2.090896	7.648506	6.35	1.150854E-02			30	
Ethanol	0.312551	41.96592	5.71	2.018157E-02		0.99851	0.99	
Acrylonitrile	0.4141358	5.662365	6.66	1.114616E-02			30	
1,1-Dichloroethene	0.7179638	9.370609	7.01	1.383032E-02			30	
Methylene chloride	0.5745408	9.082984	7.13	1.489192E-02			30	
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.410954	10.26273	7.41	0.0172231			30	
Carbon disulfide	2.062505	9.766519	7.47	1.550995E-02			30	
trans-1,2-Dichloroethene	0.9928689	7.32993	8.14	5.596354E-03			30	
1,1-Dichloroethane	1.763597	7.840046	8.37	1.779052E-02			30	
Methyl tert-butyl ether	2.550437	8.339489	8.45	8.379503E-03			30	
Isopropyl alcohol	1.140582	9.242765	6.43	0.0109206			30	
2-Butanone (MEK)	0.4471918	9.464775	8.84	2.207649E-02			30	
cis-1,2-Dichloroethene	0.9577213	7.257319	9.32	1.592992E-02			30	
Hexane	1.588353	10.85381	9.56	2.962624E-03			30	
Ethyl acetate	0.3197248	6.971382	9.59	1.330794E-02			30	
Chloroform	1.949404	8.18994	9.66	7.68462E-03			30	
Tetrahydrofuran	0.4040266	7.728337	10.19	1.223609E-02			30	
1,2-Dichloroethane	1.127687	7.159153	10.55	1.228016E-02			30	
1,1,1-Trichloroethane	1.900473	7.874623	10.86	1.422748E-02			30	
Benzene	3.041932	8.222534	11.43	2.241478E-02			30	
Carbon tetrachloride	2.012662	7.964434	11.61	2.431144E-02			30	
Cyclohexane	1.617818	8.803639	11.77	1.416523E-02			30	
1,2-Dichloropropane	0.2292443	8.727536	12.47	2.167299E-02			30	
Bromodichloromethane	0.4281567	9.61258	12.72	2.043905E-02			30	

FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Calibration: 1506003
 Matrix: Air
 File ID: T2052915H.M

SDG: 08805
 Project: Former Norton AFB
 Instrument: Air2
 Calibration Date: 05/29/15 06:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Trichloroethene	0.253353	10.94156	12.78	2.129946E-02			30	
1,4-Dioxane	8.371616E-02	20.32651	12.85	0.0144423		0.9997256	0.99	
n-Heptane	0.1900044	9.129311	13.17	1.560155E-02			30	
4-Methyl-2-pentanone (MIBK)	0.4493749	10.40303	14.02	1.383032E-02			30	
cis-1,3-Dichloropropene	0.320465	8.733788	13.93	1.053936E-02			30	
trans-1,3-Dichloropropene	0.2856309	8.972716	14.66	1.949533E-02			30	
1,1,2-Trichloroethane	0.2059535	7.555553	14.9	1.739002E-02			30	
Toluene	0.6194103	9.391485	15.29	1.493053E-02			30	
2-Hexanone (MBK)	0.2152159	9.097503	15.72	2.981871E-03			30	
Dibromochloromethane	0.4078832	7.559855	15.9	1.586738E-02			30	
1,2-Dibromoethane (EDB)	0.3643267	8.268506	16.26	1.261839E-02			30	
Tetrachloroethene	0.3317191	8.061474	16.95	1.425965E-02			30	
Chlorobenzene	1.124616	11.5378	17.99	2.257841E-02			30	
1,1,1,2-Tetrachloroethane	0.6409983	9.734368	17.96	2.159256E-02			30	
Ethylbenzene	1.887225	11.30404	18.58	9.935108E-03			30	
m,p-Xylene	0.7289606	11.07619	18.88	1.592526E-02			30	
Bromoform	0.7520878	7.179792	18.97	0.0106737			30	
Styrene	1.020135	10.24279	19.46	1.291836E-02			30	
o-Xylene	0.6318931	11.84352	19.63	2.039469E-02			30	
1,1,2,2-Tetrachloroethane	0.820666	14.58422	19.62	1.271006E-02			30	
Isopropylbenzene	1.884307	10.30607	20.63	8.323935E-03			30	
1,3,5-Trimethylbenzene	1.542182	12.74439	21.98	1.682663E-02			30	
4-Ethyltoluene	1.865094	11.61444	21.82	1.514702E-02			30	
1,2,4-Trimethylbenzene	1.435101	11.19589	22.76	0.0251813			30	
Naphthalene	0.5877439	12.27859	26.99	0.0085294		0.9994085	0.99	
1,3-Dichlorobenzene	0.9002643	13.57115	23.04	2.473489E-02			30	
Benzyl chloride	1.175662	16.20884	23.02	1.534567E-02			30	
1,4-Dichlorobenzene	0.9452206	11.42669	23.18	2.297504E-02			30	
sec-Butylbenzene	1.957994	10.62618	23.29	0.0140315			30	
4-Isopropyltoluene	1.541007	9.906	23.63	2.448167E-02			30	
1,2-Dichlorobenzene	0.8275821	12.48368	23.85	1.301469E-02			30	
n-Butylbenzene	1.287957	10.50373	24.44	2.292658E-02			30	
1,2,4-Trichlorobenzene	0.3749105	9.666542	26.82	9.517013E-03			30	

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FORM VI - INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Calibration: 1506003

Instrument: Air2

Matrix: Air

Calibration Date: 05/29/15 06:00

File ID: T2052915H.M

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Hexachlorobutadiene	0.3193252	10.74075	27.6	1.301556E-02			30	
Vinyl acetate	0.2164262	5.202251	8.53	0.0102516			30	
1,3-Dichloropropane	0.3075123	9.106129	15.33	9.32164E-03			30	
4-Bromofluorobenzene	1.214889	2.059143	20.4	1.760928E-02			30	

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VIIa - INITIAL CALIBRATION CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Calibration: 1506003

Laboratory ID: S505275-ICV1

Sequence: S505275

Standard ID: 15E1168

Analyzed: 05/30/15 01:00

File ID: ICV0529A.D

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% R	QC LIMIT
Dichlorodifluoromethane (Freon12)	10.0	9.47	95	70 - 130
Chloromethane	10.0	9.26	93	70 - 130
1,2-Dichlorotetrafluoroethane (Freon 114)	10.0	9.56	96	70 - 130
Vinyl chloride	10.0	9.27	93	70 - 130
Bromomethane	10.0	9.25	92	70 - 130
Chloroethane	10.0	9.22	92	70 - 130
Acetone	10.0	9.73	97	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	9.64	96	70 - 130
1,1-Dichloroethene	10.0	9.74	97	70 - 130
Methylene chloride	10.0	9.68	97	70 - 130
1,1,2-Trichlorotrifluoroethane (Freon 113)	10.0	9.79	98	70 - 130
Carbon disulfide	10.0	9.73	97	70 - 130
trans-1,2-Dichloroethene	10.0	9.50	95	70 - 130
1,1-Dichloroethane	10.0	9.77	98	70 - 130
2-Butanone (MEK)	10.0	9.86	99	70 - 130
cis-1,2-Dichloroethene	10.0	9.69	97	70 - 130
Chloroform	10.0	9.81	98	70 - 130
1,2-Dichloroethane	10.0	9.92	99	70 - 130
1,1,1-Trichloroethane	10.0	9.81	98	70 - 130
Benzene	10.0	9.73	97	70 - 130
Carbon tetrachloride	10.0	9.61	96	70 - 130
1,2-Dichloropropane	10.0	9.78	98	70 - 130
Bromodichloromethane	10.0	9.74	97	70 - 130
Trichloroethene	10.0	10.1	101	70 - 130
4-Methyl-2-pentanone (MIBK)	10.0	9.85	98	70 - 130
cis-1,3-Dichloropropene	10.0	9.80	98	70 - 130
trans-1,3-Dichloropropene	10.0	9.43	94	70 - 130

FORM VIIa - INITIAL CALIBRATION CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Calibration: 1506003

Laboratory ID: S505275-ICV1

Sequence: S505275

Standard ID: 15E1168

Analyzed: 05/30/15 01:00

File ID: ICV0529A.D

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% R	QC LIMIT
1,1,2-Trichloroethane	10.0	9.83	98	70 - 130
Toluene	10.0	9.84	98	70 - 130
2-Hexanone (MBK)	10.0	9.94	99	70 - 130
Dibromochloromethane	10.0	9.91	99	70 - 130
1,2-Dibromoethane (EDB)	10.0	9.76	98	70 - 130
Tetrachloroethene	10.0	9.74	97	70 - 130
Chlorobenzene	10.0	9.75	98	70 - 130
Ethylbenzene	10.0	9.76	98	70 - 130
m,p-Xylene	20.0	19.6	98	70 - 130
Bromoform	10.0	9.82	98	70 - 130
Styrene	10.0	8.92	89	70 - 130
o-Xylene	10.0	9.92	99	70 - 130
1,1,1,2-Tetrachloroethane	10.0	10.1	101	70 - 130
1,3,5-Trimethylbenzene	10.0	9.85	98	70 - 130
4-Ethyltoluene	10.0	9.82	98	70 - 130
1,2,4-Trimethylbenzene	10.0	10.0	100	70 - 130
1,3-Dichlorobenzene	10.0	8.97	90	70 - 130
Benzyl chloride	10.0	8.45	84	70 - 130
1,4-Dichlorobenzene	10.0	8.41	84	70 - 130
1,2-Dichlorobenzene	10.0	9.52	95	70 - 130
1,2,4-Trichlorobenzene	10.0	7.32	73	70 - 130
Hexachlorobutadiene	10.0	10.3	103	70 - 130
Vinyl acetate	10.0	8.74	87	70 - 130

* Values outside of QC limits

FORM IIc - LOW-CONCENTRATION CALIBRATION VERIFICATION

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Calibration: 1506003

Laboratory ID: S505275-LCV1

Sequence: S505275

Standard ID: 15E1232

File ID: 0529CAL1.D

Analyzed: 05/29/15 17:17

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% R	QC LIMIT
Dichlorodifluoromethane (Freon12)	0.500	0.470	94	70 - 130
Chloromethane	0.500	0.480	96	70 - 130
1,2-Dichlorotetrafluoroethane (Freon 114)	0.500	0.480	96	70 - 130
Vinyl chloride	0.500	0.470	94	70 - 130
Bromomethane	0.500	0.500	100	70 - 130
Chloroethane	0.500	0.490	98	70 - 130
Acetone	0.500	0.600	120	70 - 130
Trichlorofluoromethane (Freon 11)	0.500	0.460	92	70 - 130
1,1-Dichloroethene	0.500	0.460	92	70 - 130
Methylene chloride	0.500	0.540	108	70 - 130
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.500	0.440	88	70 - 130
Carbon disulfide	0.500	0.450	90	70 - 130
trans-1,2-Dichloroethene	0.500	0.460	92	70 - 130
1,1-Dichloroethane	0.500	0.480	96	70 - 130
2-Butanone (MEK)	0.500	0.390	78	70 - 130
cis-1,2-Dichloroethene	0.500	0.480	96	70 - 130
Chloroform	0.500	0.470	94	70 - 130
1,2-Dichloroethane	0.500	0.440	88	70 - 130
1,1,1-Trichloroethane	0.500	0.480	96	70 - 130
Benzene	0.500	0.470	94	70 - 130
Carbon tetrachloride	0.500	0.460	92	70 - 130
1,2-Dichloropropane	0.500	0.470	94	70 - 130
Bromodichloromethane	0.500	0.450	90	70 - 130
Trichloroethene	0.500	0.520	104	70 - 130
4-Methyl-2-pentanone (MIBK)	0.500	0.450	90	70 - 130
cis-1,3-Dichloropropene	0.500	0.420	84	70 - 130
trans-1,3-Dichloropropene	0.500	0.400	80	70 - 130

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FORM IIc - LOW-CONCENTRATION CALIBRATION VERIFICATION

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Calibration: 1506003

Laboratory ID: S505275-LCV1

Sequence: S505275

Standard ID: 15E1232

File ID: 0529CAL1.D

Analyzed: 05/29/15 17:17

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% R	QC LIMIT
1,1,2-Trichloroethane	0.500	0.490	98	70 - 130
Toluene	0.500	0.470	94	70 - 130
2-Hexanone (MBK)	0.500	0.470	94	70 - 130
Dibromochloromethane	0.500	0.450	90	70 - 130
1,2-Dibromoethane (EDB)	0.500	0.440	88	70 - 130
Tetrachloroethene	0.500	0.480	96	70 - 130
Chlorobenzene	0.500	0.500	100	70 - 130
Ethylbenzene	0.500	0.480	96	70 - 130
m,p-Xylene	1.00	0.990	99	70 - 130
Bromoform	0.500	0.460	92	70 - 130
Styrene	0.500	0.430	86	70 - 130
o-Xylene	0.500	0.500	100	70 - 130
1,1,2,2-Tetrachloroethane	0.500	0.470	94	70 - 130
1,3,5-Trimethylbenzene	0.500	0.500	100	70 - 130
4-Ethyltoluene	0.500	0.480	96	70 - 130
1,2,4-Trimethylbenzene	0.500	0.480	96	70 - 130
1,3-Dichlorobenzene	0.500	0.490	98	70 - 130
Benzyl chloride	0.500	0.450	90	70 - 130
1,4-Dichlorobenzene	0.500	0.480	96	70 - 130
1,2-Dichlorobenzene	0.500	0.470	94	70 - 130
1,2,4-Trichlorobenzene	0.500	0.400	80	70 - 130
Hexachlorobutadiene	0.500	0.460	92	70 - 130
Vinyl acetate	0.500	0.460	92	70 - 130

* Values outside of QC limits

FORM VII - CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Instrument ID: Air2

Calibration: 1506003

Lab File ID: CCC0616A.D

Calibration Date: 05/29/15 06:00

Sequence: S505798

Analyzed: 06/16/15 08:45

Lab Sample ID: S505798-CCV1

Spike ID: 15F0161

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane (Freon12)	A	10.0	9.07	2.232283	2.025025		-9.3	30
Chloromethane	A	10.0	10.2	0.838516	0.8598846		2.5	30
1,2-Dichlorotetrafluoroethane (Freon 114)	A	10.0	10.2	1.918912	1.967734		2.5	30
Vinyl chloride	A	10.0	10.0	0.88571	0.8898122		0.5	30
Bromomethane	A	10.0	10.5	0.8670775	0.9112497		5.1	30
Chloroethane	A	10.0	10.4	0.4278081	0.4466286		4.4	30
Acetone	A	10.0	11.5	0.3549608	0.4097807		15.4	30
Trichlorofluoromethane (Freon 11)	A	10.0	12.0	2.090896	2.506112		19.9	30
1,1-Dichloroethene	A	10.0	11.6	0.7179638	0.8323066		15.9	30
Methylene chloride	A	10.0	12.1	0.5745408	0.6950136		21.0	30
1,1,2-Trichlorotrifluoroethane (Freon 113)	A	10.0	12.3	1.410954	1.731578		22.7	30
Carbon disulfide	A	10.0	11.7	2.062505	2.409547		16.8	30
trans-1,2-Dichloroethene	A	10.0	8.99	0.9928689	0.8929029		-10.1	30
1,1-Dichloroethane	A	10.0	8.83	1.763597	1.557502		-11.7	30
2-Butanone (MEK)	A	10.0	9.31	0.4471918	0.4164401		-6.9	30
cis-1,2-Dichloroethene	A	10.0	9.47	0.9577213	0.9073994		-5.3	30
Chloroform	A	10.0	8.76	1.949404	1.706963		-12.4	30
1,2-Dichloroethane	A	10.0	9.38	1.127687	1.057343		-6.2	30
1,1,1-Trichloroethane	A	10.0	8.34	1.900473	1.584854		-16.6	30
Benzene	A	10.0	8.71	3.041932	2.649447		-12.9	30
Carbon tetrachloride	A	10.0	7.83	2.012662	1.576321		-21.7	30
1,2-Dichloropropane	A	10.0	9.14	0.2292443	0.2096347		-8.6	30
Bromodichloromethane	A	10.0	8.84	0.4281567	0.3785679		-11.6	30
Trichloroethene	A	10.0	9.00	0.253353	0.2280673		-10.0	30
4-Methyl-2-pentanone (MIBK)	A	10.0	9.11	0.4493749	0.4091927		-8.9	30
cis-1,3-Dichloropropene	A	10.0	8.82	0.320465	0.28256		-11.8	30
trans-1,3-Dichloropropene	A	10.0	8.39	0.2856309	0.2395487		-16.1	30

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FORM VII - CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory: <u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG: <u>08805</u>
Client: <u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project: <u>Former Norton AFB</u>
Instrument ID: <u>Air2</u>	Calibration: <u>1506003</u>
Lab File ID: <u>CCC0616A.D</u>	Calibration Date: <u>05/29/15 06:00</u>
Sequence: <u>S505798</u>	Analyzed: <u>06/16/15 08:45</u>
Lab Sample ID: <u>S505798-CCV1</u>	
Spike ID: <u>15F0161</u>	

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,2-Trichloroethane	A	10.0	9.19	0.2059535	0.1892756		-8.1	30
Toluene	A	10.0	10.0	0.6194103	0.6197727		0.06	30
2-Hexanone (MBK)	A	10.0	8.42	0.2152159	0.1811235		-15.8	30
Dibromochloromethane	A	10.0	8.92	0.4078832	0.3636825		-10.8	30
1,2-Dibromoethane (EDB)	A	10.0	8.99	0.3643267	0.327641		-10.1	30
Tetrachloroethene	A	10.0	8.40	0.3317191	0.2787161		-16.0	30
Chlorobenzene	A	10.0	10.1	1.124616	1.140019		1.4	30
Ethylbenzene	A	10.0	9.69	1.887225	1.828491		-3.1	30
m,p-Xylene	A	20.0	20.3	0.7289606	0.7404424		1.6	30
Bromoform	A	10.0	9.78	0.7520878	0.7352877		-2.2	30
Styrene	A	10.0	9.46	1.020135	0.9647662		-5.4	30
o-Xylene	A	10.0	11.1	0.6318931	0.7008778		10.9	30
1,1,2,2-Tetrachloroethane	A	10.0	12.2	0.820666	0.9969275		21.5	30
1,3,5-Trimethylbenzene	A	10.0	9.56	1.542182	1.474668		-4.4	30
4-Ethyltoluene	A	10.0	9.24	1.865094	1.723078		-7.6	30
1,2,4-Trimethylbenzene	A	10.0	9.55	1.435101	1.36982		-4.5	30
1,3-Dichlorobenzene	A	10.0	10.2	0.9002643	0.9223245		2.5	30
Benzyl chloride	A	10.0	7.93	1.175662	0.9322025		-20.7	30
1,4-Dichlorobenzene	A	10.0	9.13	0.9452206	0.8628188		-8.7	30
1,2-Dichlorobenzene	A	10.0	9.64	0.8275821	0.7976038		-3.6	30
1,2,4-Trichlorobenzene	A	10.0	6.97	0.3749105	0.2612677		-30.3	30 *
Hexachlorobutadiene	A	10.0	6.66	0.3193252	0.2128263		-33.4	30 *
Vinyl acetate	A	10.0	8.72	0.2164262	0.1886299		-12.8	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VII - CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Instrument ID: Air2

Calibration: 1506003

Lab File ID: LCS0617A.D

Calibration Date: 05/29/15 06:00

Sequence: S505839

Analyzed: 06/17/15 11:20

Lab Sample ID: S505839-CCV1

Spike ID: 15F0161

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane (Freon12)	A	10.0	9.04	2.232283	2.018015		-9.6	30
Chloromethane	A	10.0	10.1	0.838516	0.8497743		1.3	30
1,2-Dichlorotetrafluoroethane (Freon 114)	A	10.0	10.1	1.918912	1.945323		1.4	30
Vinyl chloride	A	10.0	10.1	0.88571	0.893253		0.9	30
Bromomethane	A	10.0	10.3	0.8670775	0.8897939		2.6	30
Chloroethane	A	10.0	10.2	0.4278081	0.438086		2.4	30
Acetone	A	10.0	11.8	0.3549608	0.4171546		17.5	30
Trichlorofluoromethane (Freon 11)	A	10.0	11.5	2.090896	2.405444		15.0	30
1,1-Dichloroethene	A	10.0	11.4	0.7179638	0.8163687		13.7	30
Methylene chloride	A	10.0	12.2	0.5745408	0.6989858		21.7	30
1,1,2-Trichlorotrifluoroethane (Freon 113)	A	10.0	12.1	1.410954	1.705511		20.9	30
Carbon disulfide	A	10.0	11.4	2.062505	2.34164		13.5	30
trans-1,2-Dichloroethene	A	10.0	8.60	0.9928689	0.8540373		-14.0	30
1,1-Dichloroethane	A	10.0	8.49	1.763597	1.496628		-15.1	30
2-Butanone (MEK)	A	10.0	8.90	0.4471918	0.398196		-11.0	30
cis-1,2-Dichloroethene	A	10.0	9.26	0.9577213	0.8869206		-7.4	30
Chloroform	A	10.0	8.46	1.949404	1.650006		-15.4	30
1,2-Dichloroethane	A	10.0	9.26	1.127687	1.043783		-7.4	30
1,1,1-Trichloroethane	A	10.0	8.03	1.900473	1.526745		-19.7	30
Benzene	A	10.0	8.32	3.041932	2.532062		-16.8	30
Carbon tetrachloride	A	10.0	7.44	2.012662	1.497114		-25.6	30
1,2-Dichloropropane	A	10.0	8.80	0.2292443	0.201716		-12.0	30
Bromodichloromethane	A	10.0	8.47	0.4281567	0.3627708		-15.3	30
Trichloroethene	A	10.0	8.75	0.253353	0.2216004		-12.5	30
4-Methyl-2-pentanone (MIBK)	A	10.0	8.95	0.4493749	0.4021861		-10.5	30
cis-1,3-Dichloropropene	A	10.0	8.54	0.320465	0.273697		-14.6	30
trans-1,3-Dichloropropene	A	10.0	8.10	0.2856309	0.231408		-19.0	30

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FORM VII - CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Instrument ID: Air2

Calibration: 1506003

Lab File ID: LCS0617A.D

Calibration Date: 05/29/15 06:00

Sequence: S505839

Analyzed: 06/17/15 11:20

Lab Sample ID: S505839-CCV1

Spike ID: 15F0161

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,2-Trichloroethane	A	10.0	8.91	0.2059535	0.1835718		-10.9	30
Toluene	A	10.0	9.78	0.6194103	0.6058109		-2.2	30
2-Hexanone (MBK)	A	10.0	8.21	0.2152159	0.1767001		-17.9	30
Dibromochloromethane	A	10.0	8.39	0.4078832	0.3420322		-16.1	30
1,2-Dibromoethane (EDB)	A	10.0	8.63	0.3643267	0.3142893		-13.7	30
Tetrachloroethene	A	10.0	7.98	0.3317191	0.2646203		-20.2	30
Chlorobenzene	A	10.0	10.4	1.124616	1.169455		4.0	30
Ethylbenzene	A	10.0	9.94	1.887225	1.876207		-0.6	30
m,p-Xylene	A	20.0	20.7	0.7289606	0.7560894		3.7	30
Bromoform	A	10.0	9.33	0.7520878	0.7018315		-6.7	30
Styrene	A	10.0	9.82	1.020135	1.001568		-1.8	30
o-Xylene	A	10.0	11.3	0.6318931	0.7135102		12.9	30
1,1,2,2-Tetrachloroethane	A	10.0	12.4	0.820666	1.019215		24.2	30
1,3,5-Trimethylbenzene	A	10.0	9.40	1.542182	1.450375		-6.0	30
4-Ethyltoluene	A	10.0	10.0	1.865094	1.869307		0.2	30
1,2,4-Trimethylbenzene	A	10.0	10.7	1.435101	1.529679		6.6	30
1,3-Dichlorobenzene	A	10.0	10.8	0.9002643	0.9720827		8.0	30
Benzyl chloride	A	10.0	6.53	1.175662	0.76828		-34.7	30 *
1,4-Dichlorobenzene	A	10.0	9.55	0.9452206	0.9029462		-4.5	30
1,2-Dichlorobenzene	A	10.0	10.3	0.8275821	0.8533709		3.1	30
1,2,4-Trichlorobenzene	A	10.0	7.64	0.3749105	0.2864777		-23.6	30
Hexachlorobutadiene	A	10.0	6.84	0.3193252	0.2185485		-31.6	30 *
Vinyl acetate	A	10.0	7.76	0.2164262	0.1679044		-22.4	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses



SPECTRUM ANALYTICAL, INC.

Mod EPA 3C

CROSS REFERENCE TABLE

Mod EPA 3C

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 08805
Client: Spectrum Analytical, Inc. - Tampa, FL Project: Former Norton AFB
Project Number: 393091.NO.02.15.04

Client Sample ID:

LF2Header061015

LF2Header061015

SW12C-061015

SW12C-061015DD

Lab Sample ID:

SC08805-01

SC08805-01RE1

SC08805-02

SC08805-03

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB / 393091.NO.02.15.04

SDG #: 08805

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to Mod EPA 3C.

IV. PREPARATION

Air samples were prepared according to General Air Prep.

V. INSTRUMENTATION

The following equipment was used to analyze Mod EPA 3C:

Air5 details: Perkin-Elmer / Arnel Clarus 500 GC
TCD detector 7' HayeSep N 60/80, 1/8" SF column
9' Molecular Sieve 13x45/60, 1/8" SF column

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria.

B. Blanks:

All blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met.

2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

No matrix spike or matrix spike duplicates were analyzed.

D. Duplicates:

A duplicate was analyzed.

In batch 1512052 from source sample LF2Header061015 (SC08805-01).

All method criteria were met with the following exceptions:

Methane in batch 1512052, sample 1512052-DUP1 from source sample LF2Header061015 (SC08805-01): This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

E. Samples:

All method criteria were met with the following exceptions:

In batch 1512052, sample LF2Header061015 (SC08805-01RE1): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Methane in batch 1512052, sample LF2Header061015 (SC08805-01): This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

F. Dilutions:

The following samples within this SDG were diluted:

LF2Header061015 (SC08805-01RE1): DF = 13.8



SPECTRUM ANALYTICAL, INC.

Mod EPA 3C

Sample Summaries

FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C

LF2Header061015

Laboratory:	<u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG:	<u>08805</u>				
Client:	<u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project:	<u>Former Norton AFB</u>				
Project Number:	<u>393091.NO.02.15.04</u>	Received:	<u>06/15/15 10:30</u>				
Matrix:	<u>Air</u>	Laboratory ID:	<u>SC08805-01</u>	File ID:	<u>chanb004</u>		
Sampled:	<u>06/10/15 15:55</u>	Prepared:	<u>06/19/15 06:00</u>	Analyzed:	<u>06/19/15 09:41</u>		
% Solids:		Preparation:	<u>General Air Prep</u>	Initial/Final:	<u>200 ml / 200 ml</u>		
Batch:	<u>1512052</u>	Sequence:	<u>S505932</u>	Calibration:	<u>1503016</u>	Instrument:	<u>Air5</u>
Reported to:	<u>MDL</u>	Dilution:	<u>1</u>				

CAS NO.	COMPOUND	RESULT (ppmv)	MDL	MRL	Q
74-82-8	Methane	18300	9.16	10.0	E

FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C

LF2Header061015

Laboratory: <u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG: <u>08805</u>		
Client: <u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project: <u>Former Norton AFB</u>		
Project Number: <u>393091.NO.02.15.04</u>	Received: <u>06/15/15 10:30</u>		
Matrix: <u>Air</u>	Laboratory ID: <u>SC08805-01RE1</u>	File ID: <u>chanb006</u>	
Sampled: <u>06/10/15 15:55</u>	Prepared: <u>06/19/15 06:00</u>	Analyzed: <u>06/19/15 10:48</u>	
% Solids:	Preparation: <u>General Air Prep</u>	Initial/Final: <u>200 ml / 200 ml</u>	
Batch: <u>1512052</u>	Sequence: <u>S505932</u>	Calibration: <u>1503016</u>	Instrument: <u>Air5</u>
Reported to: <u>MDL</u>	Dilution: <u>13.8</u>		

CAS NO.	COMPOUND	RESULT (ppmv)	MDL	MRL	Q
74-82-8	Methane	20400	126	138	D

FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C

SW12C-061015

Laboratory: <u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG: <u>08805</u>		
Client: <u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project: <u>Former Norton AFB</u>		
Project Number: <u>393091.NO.02.15.04</u>	Received: <u>06/15/15 10:30</u>		
Matrix: <u>Air</u>	Laboratory ID: <u>SC08805-02</u>	File ID: <u>chanb007</u>	
Sampled: <u>06/10/15 16:20</u>	Prepared: <u>06/19/15 06:00</u>	Analyzed: <u>06/19/15 11:15</u>	
% Solids:	Preparation: <u>General Air Prep</u>	Initial/Final: <u>200 ml / 200 ml</u>	
Batch: <u>1512052</u>	Sequence: <u>S505932</u>	Calibration: <u>1503016</u>	Instrument: <u>Air5</u>
Reported to: <u>MDL</u>	Dilution: <u>1</u>		

CAS NO.	COMPOUND	RESULT (ppmv)	MDL	MRL	Q
74-82-8	Methane	9.16	9.16	10.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C

SW12C-061015DD

Laboratory: <u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG: <u>08805</u>		
Client: <u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project: <u>Former Norton AFB</u>		
Project Number: <u>393091.NO.02.15.04</u>	Received: <u>06/15/15 10:30</u>		
Matrix: <u>Air</u>	Laboratory ID: <u>SC08805-03</u>	File ID: <u>chanb008</u>	
Sampled: <u>06/10/15 15:10</u>	Prepared: <u>06/19/15 06:00</u>	Analyzed: <u>06/19/15 11:45</u>	
% Solids:	Preparation: <u>General Air Prep</u>	Initial/Final: <u>200 ml / 200 ml</u>	
Batch: <u>1512052</u>	Sequence: <u>S505932</u>	Calibration: <u>1503016</u>	Instrument: <u>Air5</u>
Reported to: <u>MDL</u>	Dilution: <u>1</u>		

CAS NO.	COMPOUND	RESULT (ppmv)	MDL	MRL	Q
74-82-8	Methane	9.16	9.16	10.0	U



SPECTRUM ANALYTICAL, INC.

Mod EPA 3C

QC Summaries

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

Mod EPA 3C

Laboratory: <u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG: <u>08805</u>
Client: <u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project: <u>Former Norton AFB</u>
Matrix: <u>Air</u>	Instrument: <u>Air5</u>
Batch: <u>1512052</u>	Laboratory ID: <u>1512052-BS1</u>
Preparation: <u>General Air Prep</u>	Initial/Final: <u>200 ml / 200 ml</u>
Analyzed: <u>06/19/15 08:49</u>	Spike ID: <u>14F0573</u>
	File ID: <u>chanb002</u>

COMPOUND	SPIKE ADDED (ppmv)	LCS CONCENTRATION (ppmv)	LCS % REC. #	QC LIMITS REC.
Methane	500	440	88	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IIIc - DUPLICATES

LF2Header061015

Mod EPA 3C

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Matrix: Air

Laboratory ID: 1512052-DUP1

Batch: 1512052

Lab Source ID: SC08805-01

Preparation: General Air Prep

Initial/Final: 200 ml / 200 ml

Source Sample Name: LF2Header061015

% Solids:

File ID: chanb005

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ppmv)	C	DUPLICATE CONCENTRATION (ppmv)	C	RPD %	Q	METHOD
Methane	200	18300		19200		5		Mod EPA 3C

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM IV - METHOD BLANK SUMMARY
Mod EPA 3C

1512052-BLK1

Laboratory:	<u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG:	<u>08805</u>
Client:	<u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project:	<u>Former Norton AFB</u>
Matrix:	<u>Air</u>	Laboratory ID:	<u>1512052-BLK1</u>
		File ID:	<u>chanb003</u>
		Preparation:	<u>General Air Prep</u>
		Initial/Final:	<u>200 ml / 200 ml</u>
Analyzed:	<u>06/19/15 09:18</u>	Instrument:	<u>Air5</u>
Batch:	<u>1512052</u>	Sequence:	<u>S505932</u>
		Calibration:	<u>1503016</u>

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1512052-BS1	chanb002	06/19/15	8:49
LF2Header061015	SC08805-01	chanb004	06/19/15	9:41
Duplicate	1512052-DUP1	chanb005	06/19/15	10:14
LF2Header061015	SC08805-01RE1	chanb006	06/19/15	10:48
SW12C-061015	SC08805-02	chanb007	06/19/15	11:15
SW12C-061015DD	SC08805-03	chanb008	06/19/15	11:45

FORM I - AIR ANALYSIS DATA SHEET
Mod EPA 3C

1512052-BLK1

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 08805
 Client: Spectrum Analytical, Inc. - Tampa, FL Project: Former Norton AFB
 Matrix: Air Laboratory ID: 1512052-BLK1 File ID: chanb003
 Preparation: General Air Prep Initial/Final: 200 ml / 200 ml
 Analyzed: 06/19/15 09:18 Instrument: Air5
 Batch: 1512052 Sequence: S505932 Calibration: 1503016

CAS NO.	COMPOUND	CONC. (ppmv)	Q
74-82-8	Methane	9.16	U

**FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY**

Mod EPA 3C

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Sequence: S501947

Instrument: Air5

Calibration: 1503016

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Cal Standard	S501947-CAL1	chanb003	03/03/15 11:57
Cal Standard	S501947-CAL2	chanb004	03/03/15 12:48
Cal Standard	S501947-CAL3	chanb005	03/03/15 13:16
Cal Standard	S501947-CAL4	chanb006	03/03/15 13:45
Cal Standard	S501947-CAL5	chanb007	03/03/15 14:17
Cal Standard	S501947-CAL6	chanb008	03/03/15 14:46
Cal Standard	S501947-CAL7	chanb009	03/03/15 15:14
Initial Cal Check	S501947-ICV1	chanb010	03/04/15 08:15
Low Cal Check	S501947-LCV1	chanb012	03/04/15 09:18

**FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY**

Mod EPA 3C

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Sequence: S505932

Instrument: Air5

Calibration: 1503016

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	S505932-CCV1	chanb001	06/19/15 08:21
LCS	1512052-BS1	chanb002	06/19/15 08:49
Blank	1512052-BLK1	chanb003	06/19/15 09:18
LF2Header061015	SC08805-01	chanb004	06/19/15 09:41
LF2Header061015	1512052-DUP1	chanb005	06/19/15 10:14
LF2Header061015	SC08805-01RE1	chanb006	06/19/15 10:48
SW12C-061015	SC08805-02	chanb007	06/19/15 11:15
SW12C-061015DD	SC08805-03	chanb008	06/19/15 11:45
Calibration Check	S505932-CCV2	chanb016	06/19/15 15:58

Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS

Mod EPA 3C

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Analyte	MDL	MRL	Units
Methane	9.16	10.0	ppmv



SPECTRUM ANALYTICAL, INC.

Mod EPA 3C

Calibration Summaries

FORM VI - INITIAL CALIBRATION DATA

Mod EPA 3C

Laboratory: Spectrum Analytical, Inc. - Agawam, MA
 Client: Spectrum Analytical, Inc. - Tampa, FL
 Calibration: 1503016
 Matrix: Air
 File ID: 030315methair.mth

SDG: 08805
 Project: Former Norton AFB
 Instrument: Air5
 Calibration Date: 03/03/15 06:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppmv	RF	ppmv	RF	ppmv	RF	ppmv	RF	ppmv	RF	ppmv	RF
Methane	10	61.88532	50	36.85406	100	43.09833	500	35.36334	1000	38.79807	2000	37.73707

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VI - INITIAL CALIBRATION DATA (Continued)

Mod EPA 3C

Laboratory: Spectrum Analytical, Inc. - Agawam, MA SDG: 08805
 Client: Spectrum Analytical, Inc. - Tampa, FL Project: Former Norton AFB
 Calibration: 1503016 Instrument: Air5
 Matrix: Air Calibration Date: 03/03/15 06:00
 File ID: 030315methair.mth

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppmv	RF	ppmv	RF	ppmv	RF	ppmv	RF	ppmv	RF	ppmv	RF
Methane	4000	37.4231										

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VI - INITIAL CALIBRATION DATA (Continued)

Mod EPA 3C

Laboratory:	<u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG:	<u>08805</u>
Client:	<u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project:	<u>Former Norton AFB</u>
Calibration:	<u>1503016</u>	Instrument:	<u>Air5</u>
Matrix:	<u>Air</u>	Calibration Date:	<u>03/03/15 06:00</u>
File ID:	<u>030315methair.mth</u>		

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Methane	41.59418	22.28204	11.26651	0.2359794			30	

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VIIa - INITIAL CALIBRATION CHECK

Mod EPA 3C

Laboratory: Spectrum Analytical, Inc. - Agawam, MA

SDG: 08805

Client: Spectrum Analytical, Inc. - Tampa, FL

Project: Former Norton AFB

Calibration: 1503016

Laboratory ID: S501947-ICV1

Sequence: S501947

Standard ID: 15C0188

Analyzed: 03/04/15 08:15

File ID: chanb010

ANALYTE	EXPECTED (ppmv)	FOUND (ppmv)	% R	QC LIMIT
Methane	500	448	90	70 - 130

* Values outside of QC limits

FORM VII - CONTINUING CALIBRATION CHECK

Mod EPA 3C

Laboratory: <u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG: <u>08805</u>
Client: <u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project: <u>Former Norton AFB</u>
Instrument ID: <u>Air5</u>	Calibration: <u>1503016</u>
Lab File ID: <u>chanb001</u>	Calibration Date: <u>03/03/15 06:00</u>
Sequence: <u>S505932</u>	Analyzed: <u>06/19/15 08:21</u>
Lab Sample ID: <u>S505932-CCV1</u>	
Spike ID: <u>15C0188</u>	

COMPOUND	TYPE	CONC. (ppmv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	500	455	41.59418	37.8809		-8.9	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

FORM VII - CONTINUING CALIBRATION CHECK

Mod EPA 3C

Laboratory: <u>Spectrum Analytical, Inc. - Agawam, MA</u>	SDG: <u>08805</u>
Client: <u>Spectrum Analytical, Inc. - Tampa, FL</u>	Project: <u>Former Norton AFB</u>
Instrument ID: <u>Air5</u>	Calibration: <u>1503016</u>
Lab File ID: <u>chanb016</u>	Calibration Date: <u>03/03/15 06:00</u>
Sequence: <u>S505932</u>	Analyzed: <u>06/19/15 15:58</u>
Lab Sample ID: <u>S505932-CCV2</u>	
Spike ID: <u>15C0188</u>	

COMPOUND	TYPE	CONC. (ppmv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	500	404	41.59418	33.63598		-19.1	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

Notes & Definitions

BRL Below the reporting limit and also indicates there are no detections between the MDL and MRL

Form I 'Q' column

- B** The analyte was found in the associated blank as well as the sample
- D** All identified compounds in the analysis are at a secondary dilution factor
- E** The identified compound's concentration exceeds the calibration range of the instrument for this specific analysis
- J** Compound detected but below the reporting limit and above the minimum detection limit (MDL); therefore, the result is an estimated concentration
- N** Included for TIC that indicates presumptive evidence of a compound
- P** Used for a Dual Column target analyte when the concentration difference between the two GC columns is greater than 40%.
- U** Compound was analyzed for but not detected

Form IIa 'Method' column

This column refers to the instrument used for analysis

- IR** Iris ICP
- MS** Thermo ICP/MS
- AV** Mercury analyzer

Form VI 'Q' column

- * indicates that:
Mean RF is above the value in the LIMIT column, or
Linear COD is below the value in the LIMIT column, or
Quad COD is below the value in the LIMIT column

Form VII 'Type' column

- A** average of response factor
- L** linear regression
- Q** quadratic equation

Form VIII 'Q' column for Inorganics

- E** The dilution analysis is not within a control limit of 10%, therefore a chemical or physical interference effect must be suspected

Last Page of Data Report



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LABORATORY REPORT

June 30, 2015

Dulce Litchfield
Spectrum Analytical, Incorporated
11 Almgren Drive
Agawam, MA 01001

RE: Former Norton AFB / 393091.NO.02.15.04

Dear Dulce:

Enclosed are the results of the samples submitted to our laboratory on June 24, 2015. For your reference, these analyses have been assigned our service request number P1502550.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Sue Anderson at 9:59 am, Jun 30, 2015

Sue Anderson
Project Manager



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www.alsglobal.com

Client: Spectrum Analytical, Incorporated
Project: Former Norton AFB / 393091.NO.02.15.04

Service Request No: P1502550

CASE NARRATIVE

The samples were received intact under chain of custody on June 24, 2015 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Hydrogen Sulfide Analysis

The samples were analyzed for hydrogen sulfide per modified SCAQMD Method 307-91 and ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). This method is not included on the laboratory's NELAP, DoD-ELAP, or AIHA-LAP scope of accreditation.

Total Gaseous Non-Methane Organics as Methane Analysis

The samples were also analyzed for total gaseous non-methane organics as methane according to modified EPA Method 25C. The analyses included a single sample injection (method modification) analyzed by gas chromatography using flame ionization detection/total combustion analysis. This method is not included on the laboratory's NELAP, DoD-ELAP, or AIHA-LAP scope of accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L14-2
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	876241
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-001
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA01627201 4-4
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Spectrum Analytical, Incorporated
 Project ID: Former Norton AFB / 393091.NO.02.15.04

Service Request: P1502550

Date Received: 6/24/2015
 Time Received: 09:55

ASTM D 5504-12 - H2S Can	25C Modified - TGNMO+ 1X Can
--------------------------	------------------------------

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Pi1 (psig)	Pf1 (psig)	ASTM D 5504-12 - H2S Can	25C Modified - TGNMO+ 1X Can
SC08805-01	P1502550-001	Air	6/10/2015	15:55	2.32	2.32	X	X
SC08805-02	P1502550-002	Air	6/10/2015	16:20	0.28	2.11	X	X
SC08805-03	P1502550-003	Air	6/10/2015	15:10	0.44	2.38	X	X

SUBCONTRACT ORDER
SC08805



SPECTRUM ANALYTICAL, INC.

SENDING LABORATORY:

Spectrum Analytical, Inc. - Agawam, MA
11 Almgren Drive
Agawam, MA 01001
Phone: (413) 789-9018
Fax: (413) 789-4076
Project Manager: Dulce Litchfield

RECEIVING LABORATORY:

ALS Environmental - Simi Valley, CA
2655 Park Center Drive, Suite A
Simi Valley, CA 93065
Phone: (805) 526-7161
Fax: (805) 526-7270

P1522550

Site Location: Former Norton AFB

Project #: 393091.NO.02.15.04

Laboratory ID	Sample ID	Sampled	Matrix	Analysis	Due	Comments
① [Redacted]	SC08805-01	10-Jun-15 15:55	Air	Misc. Subcontract	06-Jul-15 16:00	TGMNO and H2S/ok to run H2S past hold
<i>Containers Supplied:</i> Summa canister 6 liter (A)						
② [Redacted]	SC08805-02	10-Jun-15 16:20	Air	Misc. Subcontract	06-Jul-15 16:00	TGMNO and H2S/ok to run H2S past hold
<i>Containers Supplied:</i> Summa canister 6 liter (A)						
③ [Redacted]	SC08805-03	10-Jun-15 15:10	Air	Misc. Subcontract	06-Jul-15 16:00	TGMNO and H2S/ok to run H2S past hold
<i>Containers Supplied:</i> Summa canister 6 liter (A)						

Please send notice within 24 hours of obtaining valid data, of the results of all drinking water samples that exceed any EPA or Department-established maximum contaminant level, maximum residual disinfectant level or reportable concentration. Notice should be emailed to labresults@spectrum-analytical.com.

Please notify labresults@spectrum-analytical.com immediately and prior to conducting analysis if certification is not held for the analyses requested.

Please e-mail results in electronic format to labresults@spectrum-analytical.com.

<i>Ruthany Jole</i> Released By	<i>6/22/15</i> Date	<i>WPS</i> Received By	<i>6/24/15</i> Date
<i>WPS</i> Released By	Date	<i>K. Kal</i> Received By	<i>6/25</i> Date

**ALS Environmental
Sample Acceptance Check Form**

Client: Spectrum Analytical, Inc.

Work order: P1502550

Project: Former Norton AFB / 393091.NO.02.15.04

Sample(s) received on: 6/24/15

Date opened: 6/24/15

by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Container(s) supplied by ALS ? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Was a trip blank received? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10 Were custody seals on outside of cooler/Box? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? <u>sealing lid</u> Sealing Lid? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were signature and date included? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were seals intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were custody seals on outside of sample container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Do they contain moisture? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1502550-001.01	Canister					
P1502550-002.01	Canister					
P1502550-003.01	Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Spectrum Analytical, Incorporated
Client Project ID: Former Norton AFB / 393091.NO.02.15.04

ALS Project ID: P1502550

Hydrogen Sulfide

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: Canister(s)
Test Notes:

Date(s) Collected: 6/10/15
Date Received: 6/24/15
Date Analyzed: 6/25/15

Client Sample ID	ALS Sample ID	Canister	Injection	Time Analyzed	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	MDL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
		Dilution Factor	Volume ml(s)								
SC08805-01	P1502550-001	1.00	1.0	11:40	2.1	7.0	2.1	1.5	5.0	1.5	U
SC08805-02	P1502550-002	1.12	1.0	12:01	2.4	7.8	2.4	1.7	5.6	1.7	U
SC08805-03	P1502550-003	1.13	1.0	12:24	2.4	7.9	2.4	1.7	5.7	1.7	U
Method Blank	P150625-MB	1.00	1.0	08:04	2.1	7.0	2.1	1.5	5.0	1.5	U

U = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Spectrum Analytical, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: Former Norton AFB / 393091.NO.02.15.04

ALS Project ID: P1502550
ALS Sample ID: P150625-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 6/25/15
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,990	1,940	97	65-138	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Spectrum Analytical, Incorporated
Client Project ID: Former Norton AFB / 393091.NO.02.15.04

ALS Project ID: P1502550

Method Blank Summary

Test Code: ASTM D 5504-12
Instrument ID: Agilent 6890A/GC13/SCD
Analyst: Mike Conejo
Sample Type: Canister(s)
Test Notes:

Lab File ID: 06251505.D
Date Analyzed: 6/25/15
Time Analyzed: 08:04

Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P150625-LCS	06251502.D	07:27
SC08805-01	P1502550-001	06251512.D	11:40
SC08805-02	P1502550-002	06251513.D	12:01
SC08805-03	P1502550-003	06251514.D	12:24

Method Path : J:\GC13\METHODS\
 Method File : GC13060815.M
 Title : 20 Sulfurs
 Last Update : Tue Jun 09 07:35:50 2015
 Response Via : Initial Calibration

Calibration Files

1 =06081509.D 2 =06081515.D 3 =06081511.D
 4 =06081512.D 5 =06081513.D 6 =06081514.D

Compound	1	2	3	4	5	6	Avg	%RSD
1) Z Hydrogen_Sulfide	2.243	2.156	2.236	2.428	2.947	2.583	2.432	E4 12.18
2) W Carbonyl_Sulfide	2.616	2.447	2.554	2.635	3.204	2.692	2.691	E4 9.83
3) T Methyl_Mercaptan	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
4) T Ethyl_Mercaptan	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
5) T Dimethyl_Sulfide	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
6) T Carbon_Disulfide	4.089	4.251	4.440	4.881	5.913	5.082	4.776	E4 14.07
7) T 2-Propyl_Merc...	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
8) T t-Butyl_Merca...	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
9) T Propyl_Mercaptan	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
10) T Ethyl_Methyl_...	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
11) T Thiophene	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
12) T i-Butyl_Merca...	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
13) T Diethyl_Sulfide	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
14) n-Butyl_Merca...	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
15) Dimethyl_Disu...	4.089	4.251	4.440	4.881	5.913	5.082	4.776	E4 14.07
16) T 2-Methyl_Thio...	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
17) 3-Methyl_Thio...	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
18) T Tetrahydrothi...	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
19) 2,5-Dimethyl_...	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
20) T 2-Ethyl_Thiop...	2.045	2.126	2.220	2.441	2.956	2.541	2.388	E4 14.07
21) T Diethyl_Disul...	4.089	4.251	4.440	4.881	5.913	5.082	4.776	E4 14.07
22) T Methyltrisulfide	6.134	6.377	6.660	7.322	8.869	7.623	7.164	E4 14.07

(#) = Out of Range

GC13060815.M Tue Jun 09 08:23:14 2015

ALS Environmental

REPORT SUMMARY

Method : 20 Sulfurs
Client : Spectrum Analytical, Incorporated
Analyst : MC
Service Request : P1502550
Instrument : GC13
Date Acquired : 6/25/15

Compounds	MDL	RL	MB QC		Dry Wall QC	Lab Dup		Continuing Calibration Standards Summary (ppbv)															
			MB	QC		dup	%RSD	ppbv	% Diff	ppbv	% Diff	ppbv	% Diff	ppbv	% Diff	ppbv	% Diff	ppbv	% Diff				
Sample Information :	ppb	ppb	mb	1ml		0	0	2000ppb s30- 06081504	% Diff	ppbv	% Diff	2000ppb s30- 06081504	% Diff	ppbv	% Diff	2000ppb s30- 06081504	% Diff	ppbv	% Diff	2000ppb s30- 06081504	% Diff	ppbv	% Diff
Inj. Vol. (ml)	1.0	1.0	1.00		1.0	1.0	1.0	0.20		0.20		0.20		0.20		0.20		0.20		0.20		0.20	
Dilution	1.0	1.0	1.00		1.0	1.0	1.0																
Pi:	1.0	1.0	1.0		1.0	1.0	1.0																
Pi:	1.0	1.0	1.0		1.0	1.0	1.0																
PI/DF:	1.0	1.0	1.0		1.0	1.0	1.0																
Hydrogen_Sulfide	1.700	5.000	ND	P				1633.78	19.1%	1771.970	12.3%	2003.054	0.8%										
Carbonyl_Sulfide	1.900	5.000	ND	P				1511.43	24.4%	1655.262	17.2%	1948.280	2.6%										
Methyl_Mercaptan	2.200	5.000	ND	P				1636.41	18.2%	1732.466	13.4%	2038.103	1.9%										
Ethyl_Mercaptan	2.200	5.000	ND	P																			
Dimethyl_Sulfide	2.200	5.000	ND	P																			
Carbon_Disulfide	1.100	2.500	ND	P				7:23 AM		8:32 AM		2:03 PM											
2-Propyl_Mercaptan	2.200	5.000	ND	P				06251501.D		06251507.D		06251518.D											
t-Butyl_Mercaptan	2.200	5.000	ND	P																			
Propyl_Mercaptan	2.200	5.000	ND	P																			
Ethyl_Methyl_Sulfide	2.200	5.000	ND	P																			
Thiophene	2.200	5.000	ND	P																			
i-Butyl_Mercaptan	2.200	5.000	ND	P																			
Diethyl_Sulfide	2.200	5.000	ND	P																			
n-Butyl_Mercaptan	2.200	5.000	ND	P																			
Dimethyl_Disulfide	2.200	5.000	ND	P																			
2-Methylthiophene	1.100	2.500	ND	P																			
3-Methylthiophene	2.200	5.000	ND	P																			
Tetrahydrothiophene	2.200	5.000	ND	P																			
2,5-Dimethylthiophene	2.200	5.000	ND	P																			
2-Ethylthiophene	2.200	5.000	ND	P																			
Diethyl_Disulfide	1.100	2.500	ND	P																			
Methyltrisulfide	1.100	2.500	ND	P																			
Acquisition Time			8:04 AM																				
DataFile			06251505.D																				

LCS / LCS Dup Summary (ppbv)

	ppbv	%R	ppbv	%R	%RPD	Actual
Hydrogen_Sulfide	1943.56	97.6%				1992.00
Carbonyl_Sulfide	1722.52	84.8%				2032.00
Methyl_Mercaptan	1851.35	91.6%				2022.00
Acquisition Time	7:27 AM					
DataFile	06251502.D					

MS 6/26/15

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Spectrum Analytical, Incorporated
Client Project ID: Former Norton AFB / 393091.NO.02.15.04

ALS Project ID: P1502550

Total Gaseous Nonmethane Organics (TGNMO) as Methane

Test Code: EPA Method 25C Modified
 Instrument ID: HP5890 II/GC1/FID/TCA
 Analyst: Nalini Lall
 Sampling Media: Canister(s)
 Test Notes:

Date(s) Collected: 6/10/15
 Date Received: 6/24/15
 Date Analyzed: 6/25/15

Client Sample ID	ALS Sample ID	Canister Dilution Factor	Injection Volume ml(s)	Result ppmV	MRL ppmV	MDL ppmV	Data Qualifier
SC08805-01	P1502550-001	1.00	0.50	9.8	1.0	0.45	
SC08805-02	P1502550-002	1.12	0.50	5.3	1.1	0.50	
SC08805-03	P1502550-003	1.13	0.50	5.2	1.1	0.51	
Method Blank	P150625-MB	1.00	0.50	0.45	1.0	0.45	U

U = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Spectrum Analytical, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Former Norton AFB / 393091.NO.02.15.04

ALS Project ID: P1502550
 ALS Sample ID: P150625-DLCS

Test Code: EPA Method 25C Modified
 Instrument ID: HP5890 II/GC1/FID/TCA
 Analyst: Nalini Lall
 Sampling Media: Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 6/25/15
 Volume(s) Analyzed: NA ml(s)

Compound	Spike Amount		Result		% Recovery		ALS	RPD	RPD	Data
	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance				
	ppmV	ppmV	ppmV	LCS	DLCS	Limits				
Total Gaseous Nonmethane Organics (TGNMO) as Methane	50.0	44.0	44.1	88	88	81-119	0	8		

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Spectrum Analytical, Incorporated
Client Project ID: Former Norton AFB / 393091.NO.02.15.04

ALS Project ID: P1502550

Method Blank Summary

Test Code: EPA Method 25C Modified
Instrument ID: HP5890 II/GC1/FID/TCA
Analyst: Nalini Lall
Sampling Media: Canister(s)
Test Notes:

Lab File ID: 06251502.D
Date Analyzed: 6/25/15
Time Analyzed: 09:03

Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P150625-LCS	06251505.D	10:01
Duplicate Lab Control Sample	P150625-DLCS	06251506.D	10:18
SC08805-01	P1502550-001	06251514.D	12:35
SC08805-02	P1502550-002	06251515.D	13:06
SC08805-03	P1502550-003	06251516.D	14:14

Method Path : J:\GC01\METHODS\
 Method File : M012615.M
 Title : EPA 25C TCA/FID Analysis for TGNMO
 Last Update : Tue Jan 27 17:29:16 2015
 Response Via : Initial Calibration

Calibration Files

1 =01261505.D 2 =01261506.D 3 =01261507.D
 4 =01261508.D 5 =01261510.D 6 =01261512.D

Compound	1	2	3	4	5	6	Avg	%RSD
1) Carbon Monoxide	5.033	5.327	4.956	5.529	5.440		5.257 E3	4.79
2) Methane	5.497	5.560	5.008	5.634	5.495		5.439 E3	4.55
3) Carbon Dioxide			5.157	5.690	5.558		5.987 E3	12.54
4) TGNMO-1	5.464	5.643	5.183	5.621		6.102	5.603 E3	5.96
5) TGMNO-2	5.464	5.643	5.183	5.621		4.428	5.268 E3	9.57

(#) = Out of Range ### Number of calibration levels exceeded format ###

wa 1/28/15

Modified EPA Method 25C Daily QC Summary

Client : Spectrum Analytical, Incorporated
 Analyst : NL
 Method Name : EPA 25C TCA/FID Analysis for TGNMO

Service Request # : P1502550
 Instrument : 6/25/2015
 Date Analyzed : 6/25/2015

RT Summaries and QC Check (minutes)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGNMO-1	TGMNO-2	File ID	Time
ICAL Mean RT	1.337	1.775	3.041	5.182			
RT Windows (+/- min)	0.330	0.330	0.330	0.330			
std s30-05201506	1.368	1.816	3.089	5.181		06251501.D	08:41
+/- 0.33min of ICAL Mean RT	Pass	Pass	Pass	Pass			
mb				N/A	N/A	06251502.D	09:03
lab air	1.331 Pass	1.816 Pass	3.093 Pass	N/A	N/A	06251503.D	09:19
ics s30-06221501	1.375 Pass	1.822 Pass	3.095 Pass	N/A	N/A	06251505.D	10:01
icsd s30-06221501	1.377 Pass	1.826 Pass	3.102 Pass	N/A	N/A	06251506.D	10:18
2550-001 vv		Vent	Vent	N/A	N/A	06251514.D	12:35
2550-002 vv		Vent	Vent	N/A	N/A	06251515.D	13:06
2550-003 vv		Vent	Vent	N/A	N/A	06251516.D	14:14
std	1.377 Pass	1.829 Pass	3.106 Pass	N/A	N/A	06251518.D	15:09

vv = Vent CO₂ / CH₄

v = Vent CO₂

N/A : Not Applicable

Continuing Calibration Standards Summary (ppm)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGMNO	File ID	Time
ACTUAL	200.00	160.00	200.00	199.00		
CCV Criteria (+/- %D)	15.0%	15.0%	15.0%	15.0%		
std s30-05201506	209.3 Pass	165.8 Pass	189.9 Pass	214.4 Pass	06251501.D	08:41
std	211.0 Pass	167.4 Pass	191.0 Pass	215.5 Pass	06251518.D	15:09

LCS / LCS Dup Summary (ppm, without DF correction)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGMNO	File ID	Time
LCS Actual Conc. (ppm)	50.00	40.00	50.00	50.00		
LCS Criteria (% Range)	86%-124%	82%-124%	72%-128%	81%-119%		
ics s30-06221501	45.2	35.6	43.8	44.0	06251505.D	10:01
LCS % Recovery	90% Pass	89% Pass	88% Pass	88% Pass		
icsd s30-06221501	45.4	35.8	44.0	44.1	06251506.D	10:18
LCS % Recovery	91% Pass	90% Pass	88% Pass	88% Pass		
Duplicate % RPD	0.5%	0.7%	0.5%	0.2%		
Duplicate Criteria % RPD	16% Pass	16% Pass	21% Pass	14% Pass		

Lab Dup Summary (ppm, without DF correction)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGMNO	File ID	Time

Chain of Custody Documentation

CH2MHILL

CHAIN OF CUSTODY RECORD

3515608 WH

3C08805 WH

Container	Preservatives:	Filtered:	Holding Time:	Project Name Former Norton AFB			Project Number 393091.NO.02.15.04	Location Former Norton AFB	Project Manager Andy Cramer	Sample Manager Dan Chern	Task Order	Project NORTON LF2 2015	Turnaround Time 21 Days	Shipping Date:	COC Number: PEL-061115	DATE TIME Matrix			
				Summa Summa	Summa Summa	Summa Summa										Summa Summa	Summa Summa		
Summa Summa	None	NA	14	TO-15 (VOCs)	6/10/15	1555	Air	X	X	X	X	6/10/15	1620	Air	LF2Header061115D	6/10/15	1510	Air	SW ₁₂ -061015D
Summa Summa	None	NA	14	EPA 3C (Fixed gases including METHANE)	6/10/15	1620	Air	X	X	X	X	6/10/15	1620	Air	LF2Header061115D	6/10/15	1620	Air	SW ₁₂ -061015D
Summa Summa	None	NA	14	EPA 25C Mod (TG/MO as %methane in landfill gases)	6/10/15	1620	Air	X	X	X	X	6/10/15	1620	Air	LF2Header061115D	6/10/15	1620	Air	SW ₁₂ -061015D
Summa Summa	None	NA	14	44/D5504-01 (lab specific method for H2S)	6/10/15	1555	Air	X	X	X	X	6/10/15	1555	Air	LF2Header061015	6/10/15	1555	Air	SW ₁₂ -061015D
<p>End 4" Hg Can 0267</p> <p>End 4" Hg Can 0267</p> <p>End 4" Hg Can 0263</p> <p>3C08805-a</p> <p>3C08805 WH</p>																			
Number of Containers		<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>3</p>																	
TOTAL NUMBER OF CONTAINERS																			

3515608 WH
6/15/15 UK

Shipping Details

Approved by: [Signature]
 Relinquished by: [Signature]
 Approved by: [Signature]
 Relinquished by: [Signature]

Date/Time: 6/15/15 1400
 Date/Time: 6/15/15 1556

Method of Shipment: FedEx
 On Ice: Yes no

Airbill No:
 Lab Name: Spectrum Analytical
 Lab Phone: (813) 888-9507

ATTN: John Heyman
 Sample Custody and Report Copy to Mark Fesler (530) 229-3273

Special Instructions:
 Direct ship to Agriculture and ALS/AS-Sim

From: (916) 286-0339
Daniel Chern
CH2MHILL INC
2485 Natomas Park Drive
Suite 600
Sacramento, CA 95833

Origin ID: SMFA



J151215022303uv

Ship Date: 09JUN15
ActWgt: 15.0 LB
CAD: 104051055/WSX12500

Dims: 28 X 14 X 14 IN

SHIP TO: (413) 789-9018 **BILL THIRD PARTY**
Shipping & Receiving
Agawam Lab (Spectrum Analytical)
11 Almgren Drive

Agawam, MA 01001

Delivery Address Bar Code



Ref # 393091.NO.02.15.04
Invoice #
PO #
Dept #

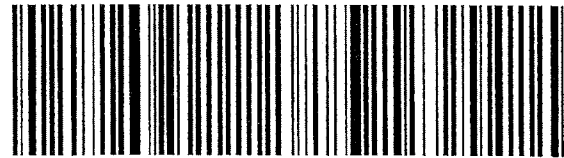
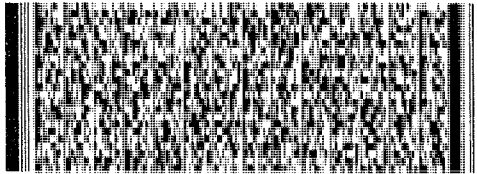
WED - 10 JUN AA
STANDARD OVERNIGHT

TRK# 7807 9400 5468

0201

XE EHTA

01001
MA-US
BDL



537J18A0EJEE4B

Addendum

Letter of Acceptance

Customer Name: CH2M Hill
Date and Time Received: 06/15/2015 10:30
Date to be Reported: 7/7/2015
Laboratory Submission Number/SDG: 3515608

Project: NORTON LF2 2015

Samples: The submission consisted of 3 samples, including QC, with sample identification shown in the attached data tables.

Tests: The Samples will be analyzed for EPA methods: ASTMD5504_OL, EPA 3C_OL, EPA_25C_OL, TO15_OL.

Sample Custody/COC discrepancies:

None.

Notes:

Air samples shipped directly to Spectrum Agawam. Spectrum Agawam to perform TO15 and fixed gases analysis. Summa cans will then be shipped to an outside lab, ALS/CAS-Simi for TGNMO and hydrogen sulfide analysis. Hydrogen sulfide analysis may be analyzed out of hold, client notified.

Distribution of Report to:

CH2M Hill
Attn: Mark Fesler
(W): 530-229-3273

Note: Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis. Spectrum Analytical letters and reports are for the exclusive use of the client to whom they are addressed. Our letters and reports apply to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar materials.

Log-in Report

Level: 3

Total of: 12 analyses on 3 samples (including QC)

17-Jun-15

Report/SDG #: 3515608

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
LF2Header061015	351560801		A	06/10/2015 15:55	06/15/2015 10:30

Method

ASTMD5504_OL	Sulfide	ASTMD5504_OL
EPA 3C_OL	EPA 3C_OL	EPA 3C
EPA_25C_OL	EPA_25C_OL	EPA_25C
TO15_OL	THE DETERMINATION OF VOLATILE	TO15

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
SW12C-061015	351560802		A	06/10/2015 16:20	06/15/2015 10:30

Method

ASTMD5504_OL	Sulfide	ASTMD5504_OL
EPA 3C_OL	EPA 3C_OL	EPA 3C
EPA_25C_OL	EPA_25C_OL	EPA_25C
TO15_OL	THE DETERMINATION OF VOLATILE	TO15

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
SW12C-061015D	351560803		A	06/10/2015 15:10	06/15/2015 10:30

Method

ASTMD5504_OL	Sulfide	ASTMD5504_OL
EPA 3C_OL	EPA 3C_OL	EPA 3C
EPA_25C_OL	EPA_25C_OL	EPA_25C
TO15_OL	THE DETERMINATION OF VOLATILE	TO15

John Heyman [Tampa]

From: Jeannette.Harris@CH2M.com
Sent: Tuesday, June 16, 2015 3:33 PM
To: John Heyman [Tampa]
Subject: RE: Samples from Norton
Importance: High

John,

Please go ahead and run the analyses. Although it's out of hold, we can still do it within less than 2x HT, correct? Then the data would be flagged, but still usable.

Thanks,
Jeannette Harris
 CH2M HILL
 Mobile: (916) 833-9313

From: John Heyman [Tampa] [mailto:jheyman@pelab.com]
Sent: Tuesday, June 16, 2015 7:30 AM
To: Harris, Jeannette/SAC
Subject: RE: Samples from Norton

Jeannette:
 Good morning. Norton air COC attached.
 Our Agawam lab is no longer analyzing for Hydrogen Sulfide on air samples. The same sub lab (ALS/CAS-Simi) that runs TGNMO can analyze the Hydrogen Sulfide; however it has a shorter holding time. We will have the sub lab proceed with the Hydrogen Sulfide analysis out of hold unless you instruct otherwise.
 We need to change the logistics on these air samples with Hydrogen Sulfide and TGNMO in the future in order to preserve holding times. Feel free to give me a call to discuss.
 Thanks!
 John

From: Jeannette.Harris@CH2M.com [mailto:Jeannette.Harris@CH2M.com]
Sent: Friday, June 12, 2015 12:55 AM
To: John Heyman [Tampa]
Cc: Daniel.Chern@CH2M.com
Subject: RE: Samples from Norton

Hi John,

An update from Norton: Dan got delayed today and was unable to make it to FedEx by the cutoff time for shipping to the East Coast. He's shipping tomorrow – the canisters will be at the Agawam lab on Monday, 6/15. The GW samples will be delivered to your lab in Tampa on Saturday, 6/13. Please give the sample receiving personnel heads up that a shipment from Norton is coming on Saturday.

Thanks!
Jeannette Harris
 CH2M HILL
 Mobile: (916) 833-9313

From: John Heyman [Tampa] [mailto:jheyman@pelab.com]
Sent: Thursday, June 11, 2015 7:56 AM
To: Harris, Jeannette/SAC

Cc: Chern, Daniel/SAC
Subject: RE: Samples from Norton

Jeannette:
Good morning.
I will pass this information along to the air lab.
Thanks!
John

From: Jeannette.Harris@CH2M.com [<mailto:Jeannette.Harris@CH2M.com>]
Sent: Thursday, June 11, 2015 10:53 AM
To: John Heyman [Tampa]
Cc: Daniel.Chern@CH2M.com
Subject: Samples from Norton

Hi John,

Dan Chern has collected GW and air samples at Norton and is shipping them today overnight to be delivered to PEL (GW samples) and Agawam (air samples).

I am e-mailing actually regarding the air samples. We ordered 4 summa canisters, but one of them turned out to be a "bad" can upon arrival, that is, it had pressure approximately 16 psi instead of the customary 28-30 psi. For your reference, the can ID is #0660. We could not use it because of its condition and are returning it back. I wanted to ask you to please tell the air lab not to charge us the decontamination fee for that "bad" can – since it is being returned unused due to no fault of ours.

Once you receive the samples tomorrow, please do let me know the status of my request.

Thanks!
Jeannette Harris
CH2M HILL
Mobile: (916) 833-9313

End Of Report

Appendix E
County of San Bernardino Local Enforcement
Agency Inspection Reports



Public Health
Environmental Health Services

www.SBCounty.gov

LEA SWIS REPORT 188 - CLOSED DISPOSAL SITE INSPECTION REPORT

Enforcement Agency: County of San Bernardino Environmental Health Services 385 N. Arrowhead Avenue San Bernardino, CA 92415-0160 (800) 442-2283		Date: 06/10/2015		Beg Time: 9:52 am
		Total Violations	0	End Time: 11:11 am
		Total Areas of Concern	0	Total Time: 79 Minutes
Facility Name NORTON AFB LANDFILL IRP SITE	Address 3RD STREET & PALM AV	City/State SAN BERNARDINO, CA		Zip Code 92415
Facility # 36-AA-0312	Operator	Service Code 001 Inspection - Routine		Operator Phone () -

THE ABOVE FACILITY WAS INSPECTED FOR COMPLIANCE WITH APPLICABLE SECTIONS OF DIVISION 30 OF THE PUBLIC RESOURCES CODE (PRC), AND TITLE 14 AND TITLE 27 CALIFORNIA CODE OF REGULATIONS (CCR). THE STANDARDS BELOW ARE CONSIDERED IN COMPLIANCE UNLESS OTHERWISE MARKED WITH ONE OF THE FOLLOWING:
A=AREA OF CONCERN V=VIOLATION

Postclosure	
1	<input type="checkbox"/> A <input type="checkbox"/> V 20750 - Site Maintenance
2	<input type="checkbox"/> A <input type="checkbox"/> V 21180 - Postclosure Maintenance
3	<input type="checkbox"/> A <input type="checkbox"/> V 21190 - Postclosure Land Use
Gas Monitoring And Control System	
4	<input type="checkbox"/> A <input type="checkbox"/> V 20918 - Exemptions
5	<input type="checkbox"/> A <input type="checkbox"/> V 20919 - Gas Controls
6	<input type="checkbox"/> A <input type="checkbox"/> V 20921 - Gas Monitoring and Control
7	<input type="checkbox"/> A <input type="checkbox"/> V 20923 - Gas Monitoring
8	<input type="checkbox"/> A <input type="checkbox"/> V 20925 - Perimeter Monitoring Network
9	<input type="checkbox"/> A <input type="checkbox"/> V 20931 - Structure Monitoring
10	<input type="checkbox"/> A <input type="checkbox"/> V 20932 - Monitored Parameters
11	<input type="checkbox"/> A <input type="checkbox"/> V 20933 - Monitoring Frequency
12	<input type="checkbox"/> A <input type="checkbox"/> V 20934 - Reporting
13	<input type="checkbox"/> A <input type="checkbox"/> V 20937 - Reporting and Control of Excessive Gas Concentrations
Grading/Final Cover	
14	<input type="checkbox"/> A <input type="checkbox"/> V 20650 - Grading of Fill Surfaces
15	<input type="checkbox"/> A <input type="checkbox"/> V 21140 - Final Cover
16	<input type="checkbox"/> A <input type="checkbox"/> V 21142 - Final Grading
17	<input type="checkbox"/> A <input type="checkbox"/> V 21145 - Slope Stability
Drainage And Erosion Control	
18	<input type="checkbox"/> A <input type="checkbox"/> V 20820 - Drainage and Erosion Control
19	<input type="checkbox"/> A <input type="checkbox"/> V 21150 - Drainage and Erosion Control
Monitoring And Control System	
20	<input type="checkbox"/> A <input type="checkbox"/> V 20790 - Leachate Control
21	<input type="checkbox"/> A <input type="checkbox"/> V 20830 - Litter Control
22	<input type="checkbox"/> A <input type="checkbox"/> V 21160 - LF Gas Control / Leachate Contact
Security	
23	<input type="checkbox"/> A <input type="checkbox"/> V 20530 - Site Security
24	<input type="checkbox"/> A <input type="checkbox"/> V 21135 - Security at Closed Sites
25	<input type="checkbox"/> A <input type="checkbox"/> V 21137 - Structural Removal
Records	
26	<input type="checkbox"/> A <input type="checkbox"/> V 21130 - Emergency Response Plan
27	<input type="checkbox"/> A <input type="checkbox"/> V 21170 - Recording
28	<input type="checkbox"/> A <input type="checkbox"/> V 21200 - Change of Ownership
Closure Plans	
29	<input type="checkbox"/> A <input type="checkbox"/> V 21880 - Certification of Closure
30	<input type="checkbox"/> A <input type="checkbox"/> V 21890 - Revision of Approved Plans for C/PC Maintenance

Overall Inspection Comments:

The Local Enforcement Agency conducted a semi-annual inspection on this date; also present during this inspection were H. Chieng, LEA inspection and D. Chern, Engineer from CH2M Hill. Methane gas monitoring was also conducted during this inspection. Measurements of methane gas were taken at multi-depth probes (A, B, and C) of wells SW01, SW03 and SW13. No methane gas was



Public Health
Environmental Health Services

LEA SWIS REPORT 188 - CLOSED DISPOSAL SITE INSPECTION REPORT

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Facility Name NORTON AFB LANDFILL IRP SITE	Address 3RD STREET & PALM AV	City/State SAN BERNARDINO, CA		Zip Code 92415
Facility # 36-AA-0312	Operator	Service Code 001 Inspection - Routine		Operator Phone () -

detected. The operator should continue monitoring the probes to ensure that they are in compliance with the State Minimum Standard. Observed bench roads and site well are maintained. The paved area of the Norton AFB Landfill IRP Site is currently being used as parking lot. During this inspection, observed cargo trailers were parked on the paved area. No violations or areas of concern were observed during this inspection.

Total # of Images: 0

Person in Charge:	
Inspector: Grace Santos	Follow-up: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Follow-up Date:



Public Health
Environmental Health Services

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LEA SWIS REPORT 188 - CLOSED DISPOSAL SITE INSPECTION REPORT

Enforcement Agency: County of San Bernardino Environmental Health Services 385 N. Arrowhead Avenue San Bernardino, CA 92415-0160 (800) 442-2283		Date: 10/28/2015		Beg Time: 10:08 am
		Total Violations	0	End Time: 10:36 am
		Total Areas of Concern	0	Total Time: 28 Minutes
Facility Name NORTON AFB LANDFILL IRP SITE	Address 3RD STREET & PALM AV	City/State SAN BERNARDINO, CA		Zip Code 92415
Facility # 36-AA-0312	Operator	Service Code 001 Inspection - Routine		Operator Phone () -

THE ABOVE FACILITY WAS INSPECTED FOR COMPLIANCE WITH APPLICABLE SECTIONS OF DIVISION 30 OF THE PUBLIC RESOURCES CODE (PRC), AND TITLE 14 AND TITLE 27 CALIFORNIA CODE OF REGULATIONS (CCR). THE STANDARDS BELOW ARE CONSIDERED IN COMPLIANCE UNLESS OTHERWISE MARKED WITH ONE OF THE FOLLOWING:
A=AREA OF CONCERN V=VIOLATION

Postclosure	
1	<input type="checkbox"/> A <input type="checkbox"/> V 20750 - Site Maintenance
2	<input type="checkbox"/> A <input type="checkbox"/> V 21180 - Postclosure Maintenance
3	<input type="checkbox"/> A <input type="checkbox"/> V 21190 - Postclosure Land Use
Gas Monitoring And Control System	
4	<input type="checkbox"/> A <input type="checkbox"/> V 20918 - Exemptions
5	<input type="checkbox"/> A <input type="checkbox"/> V 20919 - Gas Controls
6	<input type="checkbox"/> A <input type="checkbox"/> V 20921 - Gas Monitoring and Control
7	<input type="checkbox"/> A <input type="checkbox"/> V 20923 - Gas Monitoring
8	<input type="checkbox"/> A <input type="checkbox"/> V 20925 - Perimeter Monitoring Network
9	<input type="checkbox"/> A <input type="checkbox"/> V 20931 - Structure Monitoring
10	<input type="checkbox"/> A <input type="checkbox"/> V 20932 - Monitored Parameters
11	<input type="checkbox"/> A <input type="checkbox"/> V 20933 - Monitoring Frequency
12	<input type="checkbox"/> A <input type="checkbox"/> V 20934 - Reporting
13	<input type="checkbox"/> A <input type="checkbox"/> V 20937 - Reporting and Control of Excessive Gas Concentrations
Grading/Final Cover	
14	<input type="checkbox"/> A <input type="checkbox"/> V 20650 - Grading of Fill Surfaces
15	<input type="checkbox"/> A <input type="checkbox"/> V 21140 - Final Cover
16	<input type="checkbox"/> A <input type="checkbox"/> V 21142 - Final Grading
17	<input type="checkbox"/> A <input type="checkbox"/> V 21145 - Slope Stability
Drainage And Erosion Control	
18	<input type="checkbox"/> A <input type="checkbox"/> V 20820 - Drainage and Erosion Control
19	<input type="checkbox"/> A <input type="checkbox"/> V 21150 - Drainage and Erosion Control
Monitoring And Control System	
20	<input type="checkbox"/> A <input type="checkbox"/> V 20790 - Leachate Control
21	<input type="checkbox"/> A <input type="checkbox"/> V 20830 - Litter Control
22	<input type="checkbox"/> A <input type="checkbox"/> V 21160 - LF Gas Control / Leachate Contact
Security	
23	<input type="checkbox"/> A <input type="checkbox"/> V 20530 - Site Security
24	<input type="checkbox"/> A <input type="checkbox"/> V 21135 - Security at Closed Sites
25	<input type="checkbox"/> A <input type="checkbox"/> V 21137 - Structural Removal
Records	
26	<input type="checkbox"/> A <input type="checkbox"/> V 21130 - Emergency Response Plan
27	<input type="checkbox"/> A <input type="checkbox"/> V 21170 - Recording
28	<input type="checkbox"/> A <input type="checkbox"/> V 21200 - Change of Ownership
Closure Plans	
29	<input type="checkbox"/> A <input type="checkbox"/> V 21880 - Certification of Closure
30	<input type="checkbox"/> A <input type="checkbox"/> V 21890 - Revision of Approved Plans for C/PC Maintenance

Overall Inspection Comments:

The Local Enforcement Agency (LEA) conducted a semi-annual inspection on this date. Site is paved and being used as a cargo parking lot, with multiple cargo parked on site. Observed bench roads and site were properly maintained. Observed site met the maintenance requirements as stated under the State Minimum Standards. No violations or areas of concern were observed during this



Public Health
Environmental Health Services

LEA SWIS REPORT 188 - CLOSED DISPOSAL SITE INSPECTION REPORT

Enforcement Agency: County of San Bernardino Environmental Health Services 385 N. Arrowhead Avenue San Bernardino, CA 92415-0160 (800) 442-2283		Date: 10/28/2015		Beg Time: 10:08 am
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Facility Name NORTON AFB LANDFILL IRP SITE	Address 3RD STREET & PALM AV	City/State SAN BERNARDINO, CA		Zip Code 92415
Facility # 36-AA-0312	Operator	Service Code 001 Inspection - Routine		Operator Phone () -

inspection.
 Total # of Images: 0

Person in Charge:	
Inspector: Grace Santos	Follow-up: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Follow-up Date:

Appendix F
CH2M HILL Semiannual Inspection Reports

General Information (Fill In Blanks)

Inspector Name(s): MIKE LADEAU Date: 7/1/15
 Start Time: 0930 Temp (°F): 83
 Weather: CLOUDY Precip: CHANCE OF RAIN

Parameter	YES	NO	If YES, Please Explain Observation
-----------	-----	----	------------------------------------

Inspect access roads, paths, fences, gates, and landfill for evidence of the following:

Tampering or damage to main-access gates, locks or chains	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Damage to or removal of signs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Break in the perimeter fence	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Damage to posts or weakened anchoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Erosion or digging beneath the fence	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Evidence of human intrusion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Evidence of animal intrusion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Geosynthetic or LF waste brought to surface	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Road or access obstruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Vandalism	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Tampering or damage to dual-access gates, locks or chains	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Other Concerns	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Parameter	YES	NO	If YES, Please Explain Observation
Examine perimeter landfill vapor monitoring wells for evidence of the following:			
Disturbance by people or natural process	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Missing lids or locks on stove pipes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Missing cap on well casing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Burrowing animals near well base	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wells are accessible	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Wells are labeled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Vandalism	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Other Concerns	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Examine site periphery (within the site boundary) for evidence of the following:

Sediment transport from landfill cover by

Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wind	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Run-off to adjacent off-site properties	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Presence of wind blown debris (remove any present)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Other concerns	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Parameter	YES	NO	If YES, Please Explain Observation
-----------	-----	----	------------------------------------

Are there any problems with the following groundwater wells:

MW246	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
MW252	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
MW259	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
MW402	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
MW403	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
MW404	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Examine Landfill Gas System Collection Vaults for the following:

Disturbance to LFG Collection System Vaults	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are collection system vaults hidden or covered by plant growth	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SOME WEEDS
Are vaults labeled and is labeling still readable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Burrowing animals near vault base	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Disturbance to geosynthetics or LF waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Vandalism	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Other concerns	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Parameter	YES	NO	If YES, Please Explain Observation
-----------	-----	----	------------------------------------

Examine the landfill cover for evidence of the following:

Uneven settling

Depression (a relatively sunken area compared to the surrounding surface)

	X
	X

Bulges (a relatively raised area compared to the surrounding surface)

Downslope movement

Creep (slow, mass movement of soil and debris downslope)

	X
--	---

Terracing (formation of step-like benches along slope contours)

	X
--	---

Cracking

X	
---	--

SOME VISIBLE CRACKS ON PAVED AREAS

Intrusion or breach in vegetative cover layer

	X
--	---

Channelized water runoff - erosion

Rills (small channels, less than 12-inches deep, formed by water)

	X
--	---

Gullies (large channels, at least 12 inches deep, formed by ponding water)

	X
--	---

Significant change in the vegetative cover since last inspection

	X
--	---

Any areas of sparse or no vegetation?

	X
--	---

--	--	--	--

Volunteer plant growth (presence of trees, shrubs, different from as built conditions)

	X
--	---

Animal burrowing

	X
--	---

Geosynthetic or LF waste brought to surface or exposed

	X
--	---

Other Concerns

	X
--	---

Parameter	YES	NO	If YES, Please Explain Observation
-----------	-----	----	------------------------------------

CONCLUSIONS

Is there an imminent threat to the integrity of the landfill cover (If yes, has a corrective action report required)

	X
--	---

Is custodial maintenance required

X	
---	--

WEED WHACKING NEEDED

Is a follow-up inspection required

	X
--	---



FORMER NORTON AFB, LANDFILL 2
MAINTENANCE & INSPECTION FORM

General Information (Fill In Blanks)

Inspector Name(s): MIKE LADEAU

Date: 11/20/15

Start Time: 0700

Temp (°F): 55

Weather: CLEAR SUNNY

Precip: NONE

Parameter	YES	NO	If YES, Please Explain Observation
-----------	-----	----	------------------------------------

Inspect access roads, paths, fences, gates, and landfill for evidence of the following:

Tampering or damage to main-access gates, locks or chains

	X
--	---

Damage to or removal of signs

	X
--	---

Break in the perimeter fence

	X
--	---

Damage to posts or weakened anchoring

	X
--	---

Erosion or digging beneath the fence

	X
--	---

Evidence of human intrusion

	X
--	---

Evidence of animal intrusion

	X
--	---

Geosynthetic or LF waste brought to surface

	X
--	---

Road or access obstruction

	X
--	---

Vandalism

	X
--	---

Tampering or damage to dual-access gates, locks or chains

	X
--	---

Other Concerns

	X
--	---

Parameter	YES	NO	If YES, Please Explain Observation
Examine perimeter landfill vapor monitoring wells for evidence of the following:			
Disturbance by people or natural process	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Missing lids or locks on stove pipes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Missing cap on well casing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Burrowing animals near well base	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wells are accessible	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Wells are labeled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Vandalism	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Other Concerns	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Examine site periphery (within the site boundary) for evidence of the following:

Sediment transport from landfill cover by:

Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wind	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Run-off to adjacent off-site properties	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Presence of wind blown debris (remove any present)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Other concerns	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Parameter	YES	NO	If YES, Please Explain Observation
Are there any problems with the following groundwater wells:			
MW246	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
MW252	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
MW259	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
MW402	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
MW403	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
MW404	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Examine Landfill Gas System Collection Vaults for the following:

Disturbance to LFG Collection System Vaults	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are collection system vaults hidden or covered by plant growth	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SOME TRIMMING NEEDED
Are vaults labeled and is labeling still readable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Burrowing animals near vault base	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Disturbance to geosynthetics or LF waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Vandalism	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Other concerns	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Parameter	YES	NO	If YES, Please Explain Observation
-----------	-----	----	------------------------------------

Examine the landfill cover for evidence of the following:

Uneven settling

Depression (a relatively sunken area compared to the surrounding surface)

	X
	X

Bulges (a relatively raised area compared to the surrounding surface)

Downslope movement

Creep (slow, mass movement of soil and debris downslope)

	X
	X

Terracing (formation of step-like benches along slope contours)

Cracking

	X
--	---

Intrusion or breach in vegetative cover layer

	X
--	---

Channelized water runoff - erosion

Rills (small channels, less than 12-inches deep, formed by water)

	X
	X

Gullies (large channels, at least 12 inches deep, formed by ponding water)

Significant change in the vegetative cover since last inspection

	X
--	---

Any areas of sparse or no vegetation?

	X
--	---

--	--	--	--

Volunteer plant growth (presence of trees, shrubs, different from as built conditions)

	X
--	---

Animal burrowing

	X
--	---

Geosynthetic or LF waste brought to surface or exposed

	X
--	---

Other Concerns

	X
--	---

Parameter	YES	NO	If YES, Please Explain Observation
-----------	-----	----	------------------------------------

CONCLUSIONS

Is there an imminent threat to the integrity of the landfill cover (If yes, has a corrective action report required)

	X
--	---

Is custodial maintenance required

	X
--	---

Is a follow-up inspection required

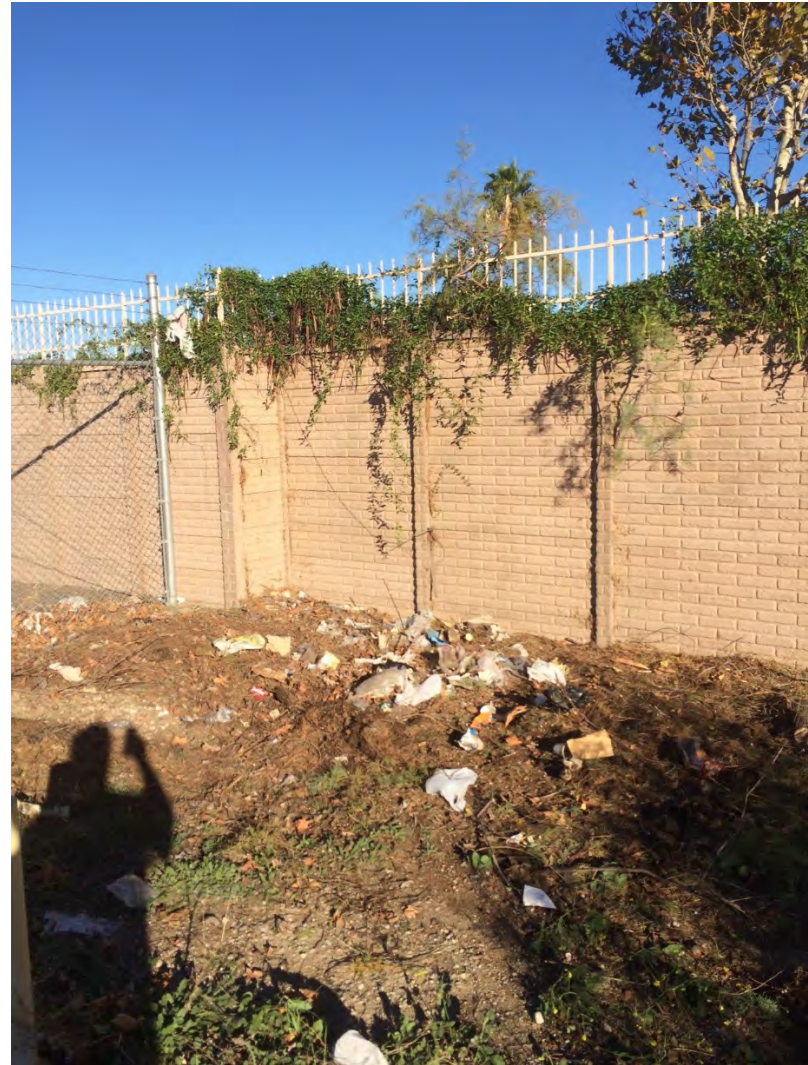
	X
--	---

Norton LF-2 Tree Removal – November 2015





Tree 1. Looking west. Before removal.



Tree 1. Looking northwest. After removal.



Tree 2. Looking northwest. Before removal.



Tree 2. Looking west. After removal.

Appendix G
San Bernardino International Airport Authority
Semiannual Inspection Reports



Inland Valley Development Agency
San Bernardino International Airport



Mr. Stephen Niou
Stephen.Niou@dtsc.ca.gov
Brownfields and Environmental Restoration Program
Department of Toxic Substances Control
5796 Corporate Avenue
Cypress, CA 90630

Re: Annual Inspection Reports

Dear Mr. Niou:

Enclosed please find the Annual Inspection Reports for four restricted environmental sites at the former Norton Air Force Base. These annual reports are provided in accordance with the Inspection and Reporting Requirements provisions in the recorded State Land Use Covenants for these sites.

I am hereby transmitting reports for the San Bernardino International Airport Authority (SBIAA) Site 2 Landfill and Site 19. Also, included are the reports for the Inland Valley Development Agency (IVDA) Small Arms Range Site and Site 5. As you will note in these reports, no violations of the State Covenants or other institutional controls were discovered during the annual inspections.

If you have any questions regarding the above reports, please contact Mr. Jim Gourley at (951) 314-6290.

Sincerely,

INLAND VALLEY DEVELOPMENT AGENCY
SAN BERNARDINO INT'L AIRPORT AUTHORITY

Michael Burrows
Executive Director

**SAN BERNARDINO INTERNATIONAL AIRPORT
IRP SITE 2 LANDFILL**

AM **MONTHLY INSPECTION**

DATE: 4/26/15
BY: Andrew Meyer

- AM 1. Inspection of the front screening wall and entrance signs.
- AM 2. Inspection of gates and controllers at screening wall.
- AM 3. Inspection of the interior fence, Air Force gates, "No Smoking" signs, and perimeter delineators. Check slopes for condition of vegetation and evidence of erosion.
- AM 4. Inspection of asphaltic cap for cracks, settlement or other evidence of potential damage.
- AM 5. Inspection of Air Force monitoring wells and gas collection system vault covers.
- AM 6. Inspection of the storm water drainage system along the north and west perimeter. Check main outlet and retention pond outlet for debris. Also, check vegetated ditch for erosion.
- AM 7. Storm water system will also be carefully inspected during and after all significant rainfall events.
- NA 8. Corrected all problems, as noted below:
- NA 9. Reported the following items to the Air Force:
- NA 10. Additional Remarks:

**SAN BERNARDINO INTERNATIONAL AIRPORT
IRP SITE 2 LANDFILL**

AM MONTHLY INSPECTION

DATE: 10/21/2015
BY: ANDREW MEYER

- AM1. Inspection of the front screening wall and entrance signs.
- AM 2. Inspection of gates and controllers at screening wall.
- AM3. Inspection of the interior fence, Air Force gates, "No Smoking" signs, and perimeter delineators. Check slopes for condition of vegetation and evidence of erosion.
- AM4. Inspection of asphaltic cap for cracks, settlement or other evidence of potential damage.
- AM 5. Inspection of Air Force monitoring wells and gas collection system vault covers.
- AM6. Inspection of the storm water drainage system along the north and west perimeter. Check main outlet and retention pond outlet for debris. Also, check vegetated ditch for erosion.
- N/A 7. Storm water system will also be carefully inspected during and after all significant rainfall events.
- N/A 8. Corrected all problems, as noted below:
- N/A 9. Reported the following items to the Air Force:
- N/A10. Additional Remarks:

SAN BERNARDINO INTERNATIONAL AIRPORT Maintenance Work Order

Work Order No. 15-0650

Part I: To be Completed by REQUESTOR

Description: Irrigation - Maintenance + Repair

For Airport Ops Use Only

FAR Part 139: Y N
 NOTAM #: _____
 Map Attached: Y N
 Marked w/Flag: Y N
 Acceptance Insp By: _____
 Add'l Work Req: Y N

Location or Equipment: Landfill Agency: IVDA SBIAA Date Submitted: 1/1/15
 Submitted by: ON-GOING

Attachment(s): _____
 Complete by Date: _____

Part II: To be Completed by FIELD WORK TEAM

Date	Work Type (check one)	Assignment	Employee	Labor Hours	Equip (Unit #)	Equip Hours	Material Used	Material Cost	Vendor	Amount Paid	W.O. Status	Completion
4/3/13	<input type="checkbox"/> Fac Maint	① T2; MM ② WEED-EAT ALONG DR#1; DITCH	C8163	5.0	0759	5.0					<input type="checkbox"/> On-going	Proposed
	<input checked="" type="checkbox"/> Grnds Maint										<input checked="" type="checkbox"/> Completed	Actual 4-3-13 By [Signature]
4/9/13	<input type="checkbox"/> Fac Maint	① WICK-UP-TASKY ② TR; MM-HERES ③ BLOW SIDE- WALK @ WALK @			#58	7.0					<input type="checkbox"/> On-going	Proposed
	<input checked="" type="checkbox"/> Grnds Maint										<input checked="" type="checkbox"/> Completed	Actual 4-9-13 By [Signature]

CORRECTIVE ACTION:

Part II: To be Completed by FIELD WORK TEAM

Date	Work Type (check one)	Assignment	Employee	Labor Hours	Equip (Unit #)	Equip Hours	Material Used	Material Cost	Vendor	Amount Paid	W.O. Status	Completion
1/29/15	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	① Pull WEEDS ② GATHER LEAVES ③ Pic-up & blow down clean	88168505 078905								<input checked="" type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed Actual 1-29-15 By JS KK

Comments:

3/2/15	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	check sprinklers change 5 nozzles	D8419 4083	2 2	01-66 2						<input type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed Actual 3-2 By JS KK
--------	---	--------------------------------------	---------------	--------	------------	--	--	--	--	--	---	------------------------------------

Comments:

List what Task has been complete

4/17/15	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	change 2 broken heads	D8419 4083	1 1/2 1	01-66 1						<input type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed Actual 4-17 By BS
---------	---	-----------------------	---------------	------------	------------	--	--	--	--	--	---	----------------------------------

Comments:

4/27/15	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	check sprinklers repair 1 head change 3 nozzles	D8419 4083	1 1	01-66 1						<input type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed Actual 4-27 By BS KK
---------	---	---	---------------	--------	------------	--	--	--	--	--	---	-------------------------------------

Comments:

CORRECTIVE ACTION:

Part II: To be Completed by FIELD WORK TEAM

Date	Work Type (check one)	Assignment	Employee	Labor Hours	Equip (Unit #)	Equip Hours	Material Used	Material Cost	Vendor	Amount Paid	W.O. Status	Completion
8/17/15	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	1) TAIN M 2) CHAIN SAW VOLUNTARY TAINES	C-8163	7.0		7.0					<input type="checkbox"/> On-going <input checked="" type="checkbox"/> Completed	Proposed Actual 8-18-15 By [Signature]

Comments:

8/19/15	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	1) PICK-UP PILES + CARRY-OUT 2) BLOW CLEAR PILES	C-8163	8.0							<input type="checkbox"/> On-going <input checked="" type="checkbox"/> Completed	Proposed Actual 8-20-15 By [Signature]
---------	---	---	--------	-----	--	--	--	--	--	--	--	--

Comments:

List what Task has been complete

8/19/15	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	1) PULL WEEDS 2) BATTLE LEAFS 3) BLOW CLEAR OUTSIDE OF	C-8163	7.0		7.0					<input type="checkbox"/> On-going <input checked="" type="checkbox"/> Completed	Proposed Actual 8-20-15 By [Signature]
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Comments:

7/20/15	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	Sprinklers - check change 3 nozzles clean flood drain	4083	2	01-66	2					<input type="checkbox"/> On-going <input checked="" type="checkbox"/> Completed	Proposed Actual 7-20 By [Signature]
---------	---	---	------	---	-------	---	--	--	--	--	--	---

Comments:

CORRECTIVE ACTION:

IS-0650 Landfill

Part II: To be Completed by FIELD WORK TEAM

Date	Work Type (check one)	Assignment	Employee	Labor Hours	Equip (Unit #)	Equip Hours	Material Used	Material Cost	Vendor	Amount Paid	W.O. Status	Completion
9/11/15	<input checked="" type="checkbox"/> Fac Maint <input type="checkbox"/> Grnds Maint <input checked="" type="checkbox"/> Other	CONTINUED DOWN DIV & GRASS SMALL TREE SEVERING ALLOW MAILING FENCE	E-1547 B-4261	7.0 3.0	07-89 7.0	7.0					<input checked="" type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed Actual By: [Signature] Date: 9-11-15
Comments:												
9/11/15	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input checked="" type="checkbox"/> Other	CONTINUED TREE CUTTING	E-3645 E-1849 B-4261	7.0 7.0 7.0	07-89 #27 #11	7.0 7.0 4.0					<input checked="" type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed Actual By: [Signature] Date: 9-11-15
Comments: List what Task has been complete												
9/26/15	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input checked="" type="checkbox"/> Other	CONTINUED CUTTING & TRAIL AWAY TRAILS & DEBRIS	E-3645 E-1849 B-4261	7.0 7.0 4.0	07-89 #18 #27	7.0 7.0 1.5					<input checked="" type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed Actual By: [Signature] Date: 9-26-15
Comments:												
9/31/15	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input checked="" type="checkbox"/> Other	BACK-DUMP DRAINAGE AREA SCRAP DIRT TRAIL AND	E-3645 E-1849	4.0 4.0	07-89 #76	4.0 4.0					<input checked="" type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed Actual By: [Signature] Date: 9-31-15
Comments:												

CORRECTIVE ACTION: _____

Part II: To be Completed by FIELD WORK TEAM

Date	Work Type (check one)	Assignment	Employee	Labor Hours	Equip (Unit #)	Equip Hours	Material Used	Material Cost	Vendor	Amount Paid	W.O. Status	Completion
9.3.15	<input checked="" type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	① SWEEP PARKWAY LOTS OF GRASS ② HAUL AWAY	C-8163	3.0	0789	3.0					<input checked="" type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed Actual 9-3-15 BY H-R

Comments:

9.9.15	<input checked="" type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	SWEEP & CATCH LOOSE SAND ALONG SIDE OF DRAIN	C-8163	6.0			#88	6.0			<input type="checkbox"/> On-going <input checked="" type="checkbox"/> Completed	Proposed Actual 9-9-15 BY S-V
--------	--	---	--------	-----	--	--	-----	-----	--	--	--	---

Comments:

List what Task has been Complete

Date	Work Type (check one)	Assignment	Employee	Labor Hours	Equip (Unit #)	Equip Hours	Material Used	Material Cost	Vendor	Amount Paid	W.O. Status	Completion
9.15.15	<input checked="" type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	FISH & BATHEN TREE-LEAFS FROM DRAIN	C-8163	1.5	0789	1.5					<input type="checkbox"/> On-going <input checked="" type="checkbox"/> Completed	Proposed Actual 9-15-15 BY H-R

Comments:

9.18.15	<input checked="" type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	GET INTO THE WATER TO CLEAN DRAIN TANK	C-8163	1.5	0789	1.5					<input type="checkbox"/> On-going <input checked="" type="checkbox"/> Completed	Proposed Actual 9-18-15 BY H-R
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Comments:

CORRECTIVE ACTION: _____

SAN BERNARDINO INTERNATIONAL AIRPORT Maintenance Work Order

Work Order No. 15-1026

Part I: To be Completed by REQUESTOR

Description: Repair Several Cracks in Landfill

For Airport Ops Use Only

FAR Part 139: Y N
 NOTAM #: _____
 Map Attached: Y N
 Marked w/Flag: Y N
 Acceptance Insp By: _____
 Add'l Work Req: Y N

Location or Equipment: Landfill
(Circle one)

Agency: IVDA
 SBIAA

Date Submitted: 2/2/15
Submitted by: _____

Attachment(s): _____
Complete by Date: _____

Part II: To be Completed by FIELD WORK TEAM

Date	Work Type (check one)	Assignment	Employee	Labor Hours	Equip (Unit #)	Equip Hours	Material Used	Material Cost	Vendor	Amount Paid	W.O. Status	Completion
<u>4/2/15</u>	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	Blow clean Fill cracks with SCAFFIX WALKER	<u>22113</u>	<u>4.0</u>	<u>2752</u>	<u>4.0</u>					<input type="checkbox"/> On-going <input checked="" type="checkbox"/> Completed	Proposed Actual <u>2/2/15</u> By <u>Walker</u>
<u>6/2/15</u>	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	Repair cracks at landfill	<u>D2190</u>	<u>2</u>	<u>0787</u>	<u>2</u>					<input checked="" type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed Actual <u>6-2-15</u> By <u>DD</u>
Comments:												

CORRECTIVE ACTION: Several locations still incomplete.

SAN BERNARDINO INTERNATIONAL AIRPORT Maintenance Work Order

15-1072
Work Order No. 15-127

Part I: To be Completed by REQUESTOR

Description: PATCH CRACKS LANDFILL

For Airport Ops Use Only

FAR Part 139: Y N
 NOTAM #: _____
 Map Attached: Y N
 Marked w/Flag: Y N
 Acceptance Insp By: _____
 Add'l Work Req: Y N

Location or Equipment: LANDFILL
(Circle one)

Agency: IVDA
 SBIAA

Date Submitted: 6/30/15
Submitted by: ops 3

Attachment(s): _____
Complete by Date: _____

Part II: To be Completed by FIELD WORK TEAM

Date	Work Type (check one)	Assignment	Employee	Labor Hours	Equip (Unit #)	Equip Hours	Material Used	Material Cost	Vendor	Amount Paid	W.O. Status	Completion
<u>6/30/15</u>	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grnds Maint <input type="checkbox"/> Other	fill in cracks with sikaflex at landfill	D2190	1 1/2	0787	1 1/2					<input checked="" type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed Actual <u>6-30-</u> By <u>DD</u>

Comments:

<u> / / </u>	<input type="checkbox"/> Fac Maint <input type="checkbox"/> Grnds Maint <input type="checkbox"/> Other										<input type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed Actual By
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Comments:

CORRECTIVE ACTION:

15-1272

SAN BERNARDINO INTERNATIONAL AIRPORT Maintenance Work Order

Work Order No. 15-1360

Part I: To be Completed by REQUESTOR

Description: Seal Cracks @ Landfill

For Airport Ops Use Only

FAR Part 139: Y N
 NOTAM #: _____
 Map Attached: Y N
 Marked w/Flag: Y N
 Acceptance Insp By: _____
 Add'l Work Req: Y N

Location or Equipment: Landfill Agency: IVDA SBIAA Date Submitted: 9/1/15
 (Circle one) Submitted by: _____

Attachment(s): _____
 Complete by Date: _____

Part II: To be Completed by FIELD WORK TEAM

Date	Work Type (check one)	Assignment	Employee	Labor Hours	Equip (Unit #)	Equip Hours	Material Used	Material Cost	Vendor	Amount Paid	W.O. Status	Completion
___/___/___	<input type="checkbox"/> Fac Maint <input type="checkbox"/> Grnds Maint <input type="checkbox"/> Other										<input type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed Actual By

Comments: _____

___/___/___	<input type="checkbox"/> Fac Maint <input type="checkbox"/> Grnds Maint <input type="checkbox"/> Other										<input type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed Actual By
-------------	--	--	--	--	--	--	--	--	--	--	---	--------------------------

Comments: _____

CORRECTIVE ACTION: _____

SAN BERNARDINO INTERNATIONAL AIRPORT Maintenance Work Order

Work Order No. 15-1361

Part I: To be Completed by REQUESTOR

Description: Sweep swale on the north edge of Landfill

For Airport Ops Use Only

FAR Part 139: Y N
 NOTAM #: _____
 Map Attached: Y N
 Marked w/Flag: Y N
 Acceptance Insp By: _____
 Add'l Work Req: Y N

Location or Equipment: Landfill
 (Circle one)

Agency: IVDA
 SBIAA

Date Submitted: 9/1/15
 Submitted by: _____

Attachment(s): _____
 Complete by Date: _____

Part II: To be Completed by FIELD WORK TEAM

Date	Work Type (check one)	Assignment	Employee	Labor Hours	Equip (Unit #)	Equip Hours	Material Used	Material Cost	Vendor	Amount Paid	W.O. Status	Completion	
<u>9/5/15</u>	<input type="checkbox"/> Fac Maint <input checked="" type="checkbox"/> Grds Maint <input type="checkbox"/> Other	<u>Sweep SWALE</u>	<u>C-8163</u>	<u>2</u>	<u>0789</u>	<u>2</u>					<input type="checkbox"/> On-going <input checked="" type="checkbox"/> Completed	Proposed	
			<u>E-0498</u>	<u>2</u>								Actual	<u>9/5/15</u>
												By	<u>SU RR</u>

Comments:

<u> / / </u>	<input type="checkbox"/> Fac Maint <input type="checkbox"/> Grds Maint <input type="checkbox"/> Other										<input type="checkbox"/> On-going <input type="checkbox"/> Completed	Proposed	
												Actual	
												By	

Comments:

CORRECTIVE ACTION:

SAN BERNARDINO INTERNATIONAL AIRPORT Maintenance Work Order

Work Order No. 15-1383

Part I: To be Completed by REQUESTOR

Description: Land fill gate operator damaged by truck.

For Airport Ops Use Only

FAR Part 139: Y N

NOTAM #: _____

Map Attached: Y N

Marked w/Flag: Y N

Acceptance Insp By: OPJ 9/21/15

Add'l Work Req: Y N

Location or Equipment: Land fill
(Circle one)

Agency: IVDA
 SBIAA

Date Submitted: 9, 21, 15
Submitted by: _____

Attachment(s): _____
Complete by Date: _____

Part II: To be Completed by FIELD WORK TEAM

Date	Work Type (check one)	Assignment	Employee	Labor Hours	Equip (Unit #)	Equip Hours	Material Used	Material Cost	Vendor	Amount Paid	W.O. Status	Completion
9/21/15	<input checked="" type="checkbox"/> Fac Maint	Repair land fill gate operator.	EB228	3	0.294	3	on stock				<input type="checkbox"/> On-going	Proposed
	<input type="checkbox"/> Grnds Maint		EY222	1	.0791	1					<input checked="" type="checkbox"/> Completed	Actual
	<input type="checkbox"/> Other		FAC 6	.5								

Comments: Operator frame, pulley and gate was damaged by impact of truck or trailer.

//_	<input type="checkbox"/> Fac Maint										<input type="checkbox"/> On-going	Proposed
	<input type="checkbox"/> Grnds Maint										<input type="checkbox"/> Completed	Actual
	<input type="checkbox"/> Other											By

Comments: _____

CORRECTIVE ACTION:

Replaced with new operator unit minor the mother board. Used old mother board on new unit

Appendix H
Landfill Gas Collection System Field Records

LF-2 Gas Extraction System Checklist

Date 4/30/15 Time 1430
 Technician LADÉAU
 GEM S/N 13320
 Calibration 15% CH4 15% CO2

Record system parameters	
Ambient temperature	93°
Gas Flow (SCFM)	
Blower discharge temp	114°
Blower Suction (in H2O)	
Wellfield Suction (in H2O)	
Methane Conc. @ Header (%)	3.2%
Methane Conc. @ Stack (%)	1.9%
ET blower no. 1	33448.9
Blower no 1 amps	0.38
Kilowatt hours	36173
KO vessel level inches	∅
Flow valve % open	100%
Dilution valve % open	50%
Re-circulation valve % open	∅
Mechanical Checks (Monthly)	
Blower Oil Check	
Blower Belt Check	
Perimeter Well Vacuum Check (Monthly)	
SW-11c (inches H2O)	
SW-12c (inches H2O)	

Notes:

Comments:

PITOT TUBE FLOW CALCULATIONS

For Dwyer DS-300 Flow Sensor

PRESSURE: 0.1 PS
 K: 0.84
 WET AIR SPECIFIC GRAVITY: 0.99
 PIPE DIAMETER: 1.939 inches

MEASURED DP (W.C.)	TEMPERATURE (deg F)	VOLUMETRIC FLOW RATE (SCFM)												
		60	65	70	75	80	85	90	95	100	105	110		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.10	17	17	16	16	16	16	16	16	16	16	16	16	16	16
0.20	24	23	23	23	23	23	23	23	23	23	23	23	23	22
0.30	29	29	28	28	28	28	28	28	28	28	28	28	28	27
0.40	35	33	33	33	33	33	32	32	32	32	32	32	32	32
0.50	37	37	37	37	36	36	36	36	36	36	36	36	36	35
0.60	41	41	40	40	40	40	40	39	39	39	39	39	39	38
0.70	44	44	44	43	43	43	43	43	43	42	42	42	42	42
0.80	47	47	47	46	46	46	46	46	46	45	45	45	45	45
0.90	50	50	49	49	49	49	49	48	48	48	48	48	48	48
1.00	53	52	52	52	52	51	51	51	51	51	51	51	51	50
1.10	55	55	55	54	54	54	54	53	53	53	53	53	53	53
1.20	58	57	57	57	56	56	56	56	56	55	55	55	55	55
1.30	60	60	59	59	59	59	59	58	58	58	58	58	58	57
1.40	62	62	62	61	61	61	61	60	60	60	60	60	60	59
1.50	64	64	64	63	63	63	63	62	62	62	62	62	62	61
1.60	66	66	66	66	65	65	65	64	64	64	64	64	64	63
1.70	69	68	68	68	67	67	67	66	66	66	66	66	66	65
1.80	71	70	70	70	69	69	69	68	68	68	68	68	68	67
1.90	72	72	72	72	71	71	71	70	70	70	70	70	70	69
2.00	74	74	74	73	73	73	73	72	72	72	72	72	72	71
2.10	76	76	75	75	75	75	74	74	74	73	73	73	73	73
2.20	78	78	77	77	76	76	76	75	75	75	75	75	75	74
2.30	80	79	79	79	78	78	78	77	77	77	77	77	77	76
2.40	81	81	81	80	80	80	80	79	79	78	78	78	78	78
2.50	83	83	82	82	82	81	81	80	80	80	80	80	80	79
2.60	85	84	84	84	83	83	83	82	82	82	82	82	82	81
2.70	86	86	86	85	85	85	84	84	84	83	83	83	83	82
2.80	88	88	87	87	86	86	86	85	85	85	85	85	85	84
2.90	89	89	89	88	88	88	87	87	87	86	86	86	86	85
3.00	91	91	90	90	89	89	89	89	88	88	88	88	88	87
3.10	93	92	92	91	91	91	90	90	90	89	89	89	89	88
3.20	94	94	93	93	92	92	91	91	91	91	91	91	91	90
3.30	95	95	95	94	94	94	93	93	92	92	92	92	92	91
3.40	97	96	96	96	95	95	94	94	94	93	93	93	93	92
3.50	98	98	97	97	96	96	96	96	96	96	96	96	96	94
3.60	100	99	99	98	98	98	97	97	97	97	96	96	96	95
3.70	101	101	100	100	99	99	99	98	98	98	97	97	97	97
3.80	102	102	101	101	101	101	100	100	99	99	98	98	98	98
3.90	104	103	103	103	102	102	101	101	100	100	100	100	100	99
4.00	105	105	104	104	103	103	102	102	101	101	101	101	101	100
4.10	106	105	105	105	104	104	103	103	103	103	103	102	102	102
4.20	108	107	107	107	106	106	105	105	104	104	103	103	103	103
4.30	109	108	108	107	107	106	106	105	105	105	105	105	105	104
4.40	110	110	109	109	108	108	107	107	107	106	106	106	106	105
4.50	111	111	110	110	109	109	109	108	108	107	107	107	107	106
4.60	113	112	112	111	111	111	110	109	109	109	109	109	109	108
4.70	114	113	113	112	112	111	111	110	110	110	110	110	110	109
4.80	115	115	114	114	113	112	112	111	111	111	111	111	111	110
4.90	116	116	115	115	114	114	114	113	113	113	113	113	113	112
5.00	118	117	116	116	115	115	114	114	114	113	113	113	113	112
5.10	119	118	118	117	116	116	115	115	115	114	114	114	114	113
5.20	120	119	119	118	118	117	117	116	116	116	116	116	116	115

LF-2 Gas Extraction System Checklist

Date 6/11/15 Time 0945
 Technician Dan Chern
 GEM S/N _____
 Calibration _____

Record system parameters	
Ambient temperature	70
Gas Flow (SCFM)	88
Blower discharge temp	78
Blower Suction (in H2O)	—
Wellfield Suction (in H2O)	1.2
Methane Conc. @ Header (%)	2.9
Methane Conc. @ Stack (%)	2.4
ET blower no. 1	344544
Blower no 1 amps	0.40
Kilowatt hours	—
KO vessel level inches	0
Flow valve % open	100%
Dilution valve % open	50%
Re-circulation valve % open	—
Mechanical Checks (Monthly)	
Blower Oil Check	— NA
Blower Belt Check	— NA
Perimeter Well Vacuum Check (Monthly)	
SW-11c (inches H2O)	—
SW-12c (inches H2O)	—

Notes:

Comments: Northstar inspect system and everything working well.
-No oil change needed because no oil. Ball bearings sound fine.

PITOT TUBE FLOW CALCULATIONS

For Dwyer DS-300 Flow Sensor

PRESSURE 0.1 PSI
 K 0.64
 WET AIR SPECIFIC GRAVITY 0.99
 PIPE DIAMETER 1.938 inches

MEASURED DP (W.C.)	TEMPERATURE (deg F)	VOLUMETRIC FLOW RATE (SCFM)												
		60	65	70	75	80	85	90	95	100	105	110		
0		0	0	0	0	0	0	0	0	0	0	0	0	0
0.10		17	17	16	16	16	16	16	16	16	16	16	16	16
0.20		24	23	23	23	23	23	23	23	23	23	23	23	22
0.30		29	29	29	28	28	28	28	28	28	28	28	28	27
0.40		33	33	33	33	33	32	32	32	32	32	32	32	32
0.50		37	37	37	37	36	36	36	36	36	36	36	36	35
0.60		41	41	40	40	40	40	40	39	39	39	39	39	39
0.70		44	44	44	43	43	43	43	43	43	42	42	42	42
0.80		47	47	47	46	46	46	46	46	45	45	45	45	45
0.90		50	50	49	49	49	49	49	48	48	48	48	48	48
1.00		53	52	52	52	52	51	51	51	51	51	50	50	50
1.10		55	55	55	54	54	54	54	53	53	53	53	53	53
1.20		58	57	57	57	56	56	56	56	56	55	55	55	55
1.30		60	60	59	59	59	59	59	58	58	58	57	57	57
1.40		62	62	62	61	61	61	60	60	60	60	60	60	59
1.50		64	64	64	63	63	63	63	62	62	62	62	61	61
1.60		66	66	66	66	65	65	65	64	64	64	64	63	63
1.70		69	68	68	68	67	67	67	66	66	66	66	65	65
1.80		71	70	70	70	69	69	69	68	68	68	68	67	67
1.90		72	72	72	71	71	71	70	70	70	69	69	69	69
2.00		74	74	74	73	73	73	72	72	72	72	71	71	71
2.10		76	76	75	75	75	74	74	74	73	73	73	73	73
2.20		78	78	77	77	76	76	76	75	75	75	74	74	74
2.30		80	79	79	79	78	78	77	77	77	76	76	76	76
2.40		81	81	81	80	80	80	79	79	79	78	78	78	78
2.50		83	83	82	82	82	81	81	80	80	80	80	79	79
2.60		85	84	84	84	83	83	82	82	82	81	81	81	81
2.70		86	86	86	85	85	84	84	84	83	83	83	82	82
2.80		88	88	87	87	86	86	85	85	85	84	84	84	84
2.90		89	89	89	88	88	87	87	87	86	86	86	85	85
3.00		91	91	90	90	89	89	89	88	88	87	87	87	87
3.10		93	92	92	91	91	90	90	90	89	89	89	88	88
3.20		94	94	93	93	92	92	91	91	91	90	90	90	90
3.30		95	95	95	94	94	93	93	92	92	92	91	91	91
3.40		97	96	96	96	95	95	94	94	93	93	93	93	93
3.50		98	98	97	97	96	96	96	95	95	94	94	94	94
3.60		100	99	99	98	98	97	97	97	96	96	95	95	95
3.70		101	101	100	100	99	99	98	98	98	97	97	97	97
3.80		102	102	101	101	101	100	100	99	99	98	98	98	98
3.90		104	103	103	102	102	101	101	100	100	100	99	99	99
4.00		105	105	104	104	103	103	102	102	101	101	101	100	100
4.10		106	106	105	105	104	104	103	103	103	102	102	102	102
4.20		108	107	107	106	106	105	105	104	104	103	103	103	103
4.30		109	108	108	107	107	106	106	105	105	105	104	104	104
4.40		110	110	109	109	108	108	107	107	106	106	106	105	105
4.50		111	111	110	110	109	109	108	108	107	107	107	106	106
4.60		113	112	112	111	111	110	110	109	109	108	108	108	108
4.70		114	113	113	112	112	111	111	110	110	109	109	109	109
4.80		115	115	114	114	113	112	112	111	111	110	110	110	110
4.90		116	116	115	115	114	114	113	113	112	112	111	111	111
5.00		118	117	116	116	115	115	114	114	113	113	112	112	112
5.10		119	118	118	117	116	116	115	115	114	114	113	113	113
5.20		120	119	119	118	118	117	117	116	115	115	115	114	114

LF-2 Gas Extraction System Checklist

Date 8/6/15 Time 1000

Technician mike Palm

GEM S/N # 13320

Calibration CO2 - 15.6 to 15% CH4 14.9 to 15%

Record system parameters	
Ambient temperature	81
Gas Flow (SCFM)	88
Blower discharge temp	102
Blower Suction (in H2O)	0.09
Wellfield Suction (in H2O)	0
Methane Conc. @ Header (%)	2.3
Methane Conc. @ Stack (%)	2.1
ET blower no. 1	35797
Blower no 1 amps	6.39
Kilowatt hours	40218
KO vessel level inches	340 gal
Flow valve % open	100%
Dilution valve % open	50%
Re-circulation valve % open	0%
Mechanical Checks (Monthly)	
Blower Oil Check	N/A
Blower Belt Check	N/A
Perimeter Well Vacuum Check (Monthly)	
SW-11c (inches H2O)	00
SW-12c (inches H2O)	00

Notes:

Comments:

PITOT TUBE FLOW CALCULATIONS

For Dwyer DS-300 Flow Sensor

PRESSURE 0.1 PSI
 K 0.64
 WET AIR SPECIFIC GRAVITY 0.99
 PIPE DIAMETER 1.939 inches

MEASURED DP (W.C.)	TEMPERATURE (deg F)	VOLUMETRIC FLOW RATE (SCFM)													
		60	65	70	75	80	85	90	95	100	105	110			
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.10	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16
0.20	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23
0.30	26	29	28	28	28	28	28	28	28	28	28	28	28	28	27
0.40	33	33	33	33	33	33	32	32	32	32	32	32	32	32	32
0.50	37	37	37	37	36	36	36	36	36	36	36	36	36	36	35
0.60	41	41	40	40	40	40	40	40	40	39	39	39	39	39	39
0.70	44	44	44	43	43	43	43	43	43	43	42	42	42	42	42
0.80	47	47	47	46	46	46	46	46	46	46	45	45	45	45	45
0.90	50	50	49	49	49	49	49	48	48	48	48	48	48	48	48
1.00	53	52	52	52	52	51	51	51	51	51	50	50	50	50	50
1.10	55	55	55	54	54	54	54	54	53	53	53	53	53	53	53
1.20	58	57	57	57	56	56	56	56	56	55	55	55	55	55	55
1.30	60	60	59	59	59	59	59	58	58	58	58	57	57	57	57
1.40	62	62	62	61	61	61	61	60	60	60	60	60	60	60	59
1.50	64	64	64	63	63	63	63	62	62	62	62	62	62	62	61
1.60	66	66	66	66	65	65	65	64	64	64	64	64	64	64	63
1.70	69	68	68	68	67	67	67	66	66	66	66	66	66	66	65
1.80	71	70	70	70	69	69	69	68	68	68	68	68	68	68	67
1.90	72	72	72	71	71	71	71	70	70	70	70	70	70	70	69
2.00	74	74	74	73	73	73	72	72	72	72	71	71	71	71	71
2.10	76	76	75	75	75	74	74	74	74	73	73	73	73	73	73
2.20	78	78	77	77	76	76	76	75	75	75	75	75	75	75	74
2.30	80	79	79	79	78	78	77	77	77	77	76	76	76	76	76
2.40	81	81	81	80	80	80	79	79	79	78	78	78	78	78	78
2.50	83	83	82	82	82	81	81	80	80	80	80	80	80	80	79
2.60	85	84	84	84	83	83	82	82	82	82	81	81	81	81	81
2.70	86	86	86	86	85	84	84	84	83	83	83	83	83	83	82
2.80	88	88	87	87	86	86	85	85	85	85	84	84	84	84	84
2.90	89	89	89	88	88	87	87	87	87	86	86	86	86	86	85
3.00	91	91	90	90	89	89	89	89	89	88	88	88	88	88	87
3.10	93	92	92	91	91	90	90	90	90	89	89	89	89	89	88
3.20	94	94	93	93	92	92	91	91	91	91	91	90	90	90	90
3.30	95	95	95	94	94	93	93	92	92	92	92	92	92	92	91
3.40	97	96	96	96	95	95	94	94	94	93	93	93	93	93	93
3.50	98	98	97	97	96	95	96	95	95	95	94	94	94	94	94
3.60	100	99	99	98	98	97	97	97	97	96	96	96	96	96	95
3.70	101	101	100	100	99	99	98	98	98	97	97	97	97	97	97
3.80	102	102	101	101	101	100	100	99	99	99	99	98	98	98	98
3.90	104	103	103	102	102	101	101	101	100	100	100	100	100	100	99
4.00	105	105	104	104	103	103	102	102	102	101	101	101	101	101	100
4.10	106	106	105	105	104	104	103	103	103	103	102	102	102	102	102
4.20	108	107	107	106	106	105	105	104	104	104	103	103	103	103	103
4.30	109	108	108	107	107	106	106	105	105	105	105	105	105	105	104
4.40	110	110	109	109	108	108	107	107	107	106	106	106	106	106	105
4.50	111	111	110	110	109	109	108	108	108	108	107	107	107	107	106
4.60	113	112	112	111	111	110	110	109	109	109	109	108	108	108	108
4.70	114	113	113	112	112	111	111	110	110	110	109	109	109	109	109
4.80	115	115	114	114	113	112	112	111	111	111	110	110	110	110	110
4.90	116	116	115	115	114	114	113	113	113	112	112	112	112	112	111
5.00	118	117	116	116	115	115	114	114	114	113	113	113	113	113	112
5.10	119	118	118	117	116	116	115	115	115	114	114	114	114	114	113
5.20	120	119	119	118	118	117	117	116	116	115	115	115	115	115	114

LF-2 Gas Extraction System Checklist

Date 11/20/15 Time 0830
 Technician LADRU
 GEM S/N _____
 Calibration 15% METHANE

Record system parameters	
Ambient temperature	55°
Gas Flow (SCFM)	93
Blower discharge temp	76°
Blower Suction (in H2O)	3.2
Wellfield Suction (in H2O)	0.6
Methane Conc. @ Header (%)	1.1
Methane Conc. @ Stack (%)	0.6
ET blower no.1	37495.1
Blower no 1 amps	0.41
Kilowatt hours	43543
KO vessel level inches	∅
Flow valve % open	100
Dilution valve % open	50%
Re-circulation valve % open	∅
Mechanical Checks (Monthly)	
Blower Oil Check	—
Blower Belt Check	—
Perimeter Well Vacuum Check (Monthly)	
SW-11c (inches H2O)	0.0
SW-12c (inches H2O)	0.0

Notes:

Comments: SYSTEM SHUT DOWN @ 0900. LOCKED OUT POWER SUPPLY ON CONTROL PANEL.

PITOT TUBE FLOW CALCULATIONS

For Dwyer DS-300 Flow Sensor

PRESSURE 0.1 PS
 K 0.84
 WET AIR SPECIFIC GRAVITY 0.99
 PIPE DIAMETER 1.938 inches

MEASURED DP (W.C.)	TEMPERATURE (deg F)	VOLUMETRIC FLOW RATE (SCFM)										
		60	65	70	75	80	85	90	95	100	105	110
0	0	0	0	0	0	0	0	0	0	0	0	0
0.10	17	17	16	16	16	16	16	16	16	16	16	16
0.20	24	23	23	23	23	23	23	23	23	23	23	22
0.30	26	29	28	28	28	28	28	28	28	28	28	27
0.40	35	33	33	33	33	33	32	32	32	32	32	32
0.50	37	37	37	37	36	36	36	36	36	36	36	35
0.60	41	41	40	40	40	40	40	39	39	39	39	39
0.70	44	44	44	43	43	43	43	43	42	42	42	42
0.80	47	47	47	46	46	46	46	46	45	45	45	45
0.90	50	50	49	49	49	49	49	48	48	48	48	48
1.00	53	52	52	52	52	51	51	51	51	50	50	50
1.10	55	55	55	54	54	54	54	54	53	53	53	53
1.20	58	57	57	57	56	56	56	56	55	55	55	55
1.30	60	60	59	59	59	59	59	58	58	58	57	57
1.40	62	62	62	61	61	61	61	60	60	60	60	59
1.50	64	64	64	63	63	63	63	62	62	62	62	61
1.60	66	66	66	66	65	65	65	64	64	64	64	63
1.70	68	68	68	68	67	67	67	66	66	66	66	65
1.80	71	70	70	70	69	69	69	69	68	68	68	67
1.90	72	72	72	71	71	71	70	70	70	69	69	69
2.00	74	74	74	73	73	73	72	72	72	71	71	71
2.10	76	76	75	75	75	74	74	74	73	73	73	73
2.20	78	78	77	77	76	76	76	75	75	75	74	74
2.30	80	79	79	78	78	78	77	77	77	76	76	76
2.40	81	81	81	80	80	80	79	79	78	78	78	78
2.50	83	83	82	82	82	81	81	80	80	80	79	79
2.60	85	84	84	84	83	83	82	82	82	81	81	81
2.70	86	86	86	85	85	84	84	84	83	83	83	82
2.80	88	88	87	87	86	86	85	85	85	84	84	84
2.90	89	89	89	88	88	87	87	87	86	86	85	85
3.00	91	91	90	90	89	89	89	88	88	87	87	87
3.10	93	92	92	91	91	90	90	90	89	89	88	88
3.20	94	94	93	93	92	92	91	91	91	90	90	90
3.30	95	95	95	94	94	93	93	92	92	92	91	91
3.40	97	96	96	96	95	95	94	94	93	93	93	93
3.50	98	98	97	97	96	96	95	95	95	94	94	94
3.60	100	99	99	98	98	97	97	97	96	96	95	95
3.70	101	101	100	100	99	99	98	98	97	97	97	97
3.80	102	102	101	101	101	100	100	99	99	98	98	98
3.90	104	103	103	102	102	101	101	100	100	100	99	99
4.00	105	105	104	104	103	103	102	102	101	101	101	100
4.10	106	106	105	105	104	104	103	103	103	103	102	102
4.20	108	107	107	106	106	105	105	104	104	103	103	103
4.30	109	109	108	107	107	106	106	105	105	105	104	104
4.40	110	110	109	109	108	108	107	107	106	106	105	105
4.50	111	111	110	110	109	109	108	108	107	107	107	106
4.60	113	112	112	111	111	110	110	109	109	109	108	108
4.70	114	113	113	112	112	111	111	110	110	109	109	109
4.80	115	115	114	114	113	112	112	111	111	110	110	110
4.90	116	116	115	115	114	114	113	113	112	112	111	111
5.00	118	117	116	116	115	115	114	114	113	113	112	112
5.10	119	118	118	117	116	116	115	115	114	114	113	113
5.20	120	119	119	118	118	117	117	116	115	115	114	114

Appendix I
Backflow Preventer Test Report



Mike Furst
Water Quality
Coordinator
31111 Greenspot Rd
Highland, CA 92346
mfurst@eastvalley.org
(909) 772-5154 Cell
(909) 806-4228 FAX

BACKFLOW PREVENTION ASSEMBLY TEST REPORT

EAST VALLEY WATER DISTRICT

BFP Assembly ID	2003149	Facility Name	SAN BERNARDINO NATL AIRPORT		
Account Number	1510195	Meter #	210511	Test Report Due:	11/30/2015
Service Address	3333 3RD			Schedule Code	11-Nov
Equip Location	IRRIGATION			Assembly Info (Replacement/Correction)	
Location ID	1510195	Protection Type		SN	<input type="checkbox"/> J007674
Contact Name		Ph		Mfr	<input type="checkbox"/> FEBCO
Map Page		#2		Type	<input type="checkbox"/> RP
				Size	<input type="checkbox"/> 1 1/2"
				Model	<input type="checkbox"/> 825YA
				Install Date	
				SERVICE ACCT NUM	1510195
<input type="checkbox"/> Confinement	<input type="checkbox"/> Freeze Protect	Hazard Type		Haz. Level	

Line pressure at time of test: 90 **REPORT OF TEST RESULTS** Approved BFP

	Check Valve #1	Check Valve #2	Relief Valve	PVB/SVB	Shut Off Valves	
Initial Test	<input type="checkbox"/> Held at _____ PSID	<input checked="" type="checkbox"/> Held at _____ PSID	<input checked="" type="checkbox"/> Opened at <u>2.5</u> PSID	<input type="checkbox"/> Air Inlet Opened at _____ PSID	#1	#2
Pass	<input type="checkbox"/> Closed Tight	<input type="checkbox"/> Closed Tight	<input type="checkbox"/> Did Not Open	<input type="checkbox"/> Did not Open	Closed Tight	<input type="checkbox"/>
Fail	<input checked="" type="checkbox"/> Leaked	<input type="checkbox"/> Leaked		<input type="checkbox"/> Check Held at _____ PSID	Leaked	<input type="checkbox"/>
REPAIR	<input checked="" type="checkbox"/> CLEANED REPLACED	<input checked="" type="checkbox"/> CLEANED REPLACED	<input type="checkbox"/> CLEANED REPLACED	<input type="checkbox"/> CLEANED REPLACED	CLEANED REPLACED	<input type="checkbox"/>
	<input checked="" type="checkbox"/> Disc <u>new</u>	<input checked="" type="checkbox"/> Disc <u>flr</u>	<input type="checkbox"/> Disc	<input type="checkbox"/> Air Inlet Disc	REPAIR	<input type="checkbox"/>
	<input type="checkbox"/> Spring	<input type="checkbox"/> Spring	<input type="checkbox"/> Spring	<input type="checkbox"/> Air Inlet Spring		<input type="checkbox"/>
	<input type="checkbox"/> Guide	<input type="checkbox"/> Guide	<input type="checkbox"/> Diaphragm	<input type="checkbox"/> Check Disc		<input type="checkbox"/>
	<input type="checkbox"/> Seat	<input type="checkbox"/> Seat	<input type="checkbox"/> Seat	<input type="checkbox"/> Check Spring		<input type="checkbox"/>
	<input type="checkbox"/> O-Ring(s)	<input type="checkbox"/> O-Ring(s)	<input type="checkbox"/> O-Ring(s)	<input type="checkbox"/> Float		<input type="checkbox"/>
	<input type="checkbox"/> Module	<input type="checkbox"/> Module <u>Fend.</u>	<input type="checkbox"/> Module	<input type="checkbox"/> Diaphragm		<input type="checkbox"/>
	<input type="checkbox"/> Rubber Kit	<input type="checkbox"/> Rubber Kit	<input type="checkbox"/> Rubber Kit	<input type="checkbox"/> Rubber Kit	Other	<input type="checkbox"/>
		<input checked="" type="checkbox"/> <u>Washer</u>				<input type="checkbox"/>

Other/Notes: _____ USC 10th Edit.

Final Test	<u>5.6</u> PSID	_____ PSID	<input checked="" type="checkbox"/> Opened at <u>2.8</u> PSID	Air Inlet _____ PSID	Closed Tight	<input type="checkbox"/>
	<input type="checkbox"/> Closed Tight	<input checked="" type="checkbox"/> Closed Tight		CK Valve _____ PSID	Pass	<input checked="" type="checkbox"/>

THE ABOVE REPORT IS CERTIFIED TO BE TRUE:

PASS FAIL _____ 1A

Initial Test By	Certificate	Date:	Gauge Num	Time In	Time Out	Company	Phone
<u>[Signature]</u>	33048	12/29/15				H/Son	
Final Test By	"	"				"	
Repair By	"	"				"	

APPENDIX D
ENVIRONMENTAL DATABASE INFORMATION

Gateway South Building 4
1494 South Waterman Avenue
San Bernardino, CA 92408

Inquiry Number: 4796773.2s
December 05, 2016

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

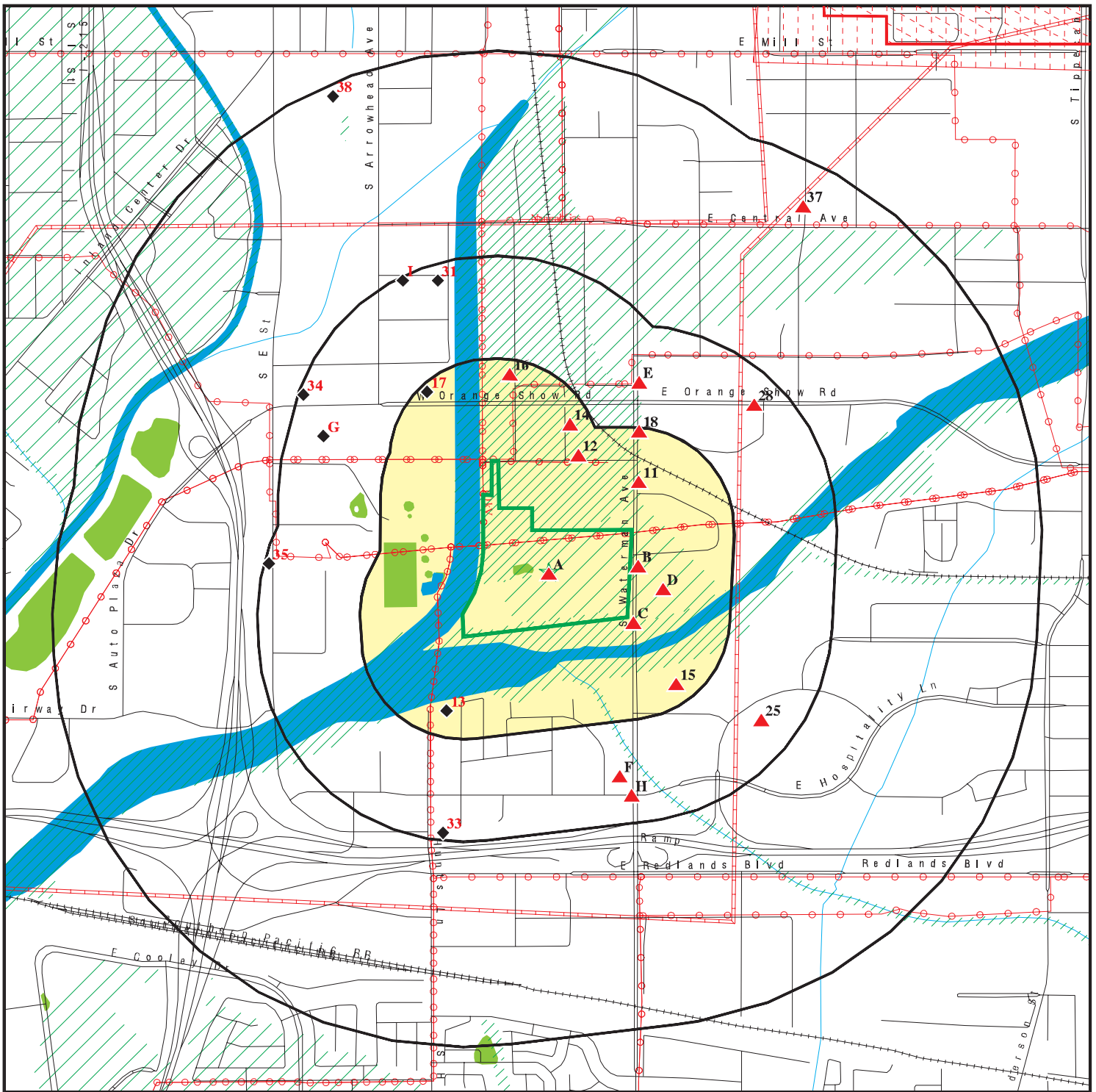
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OVERVIEW MAP - 4796773.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

0 1/4 1/2 1 Miles

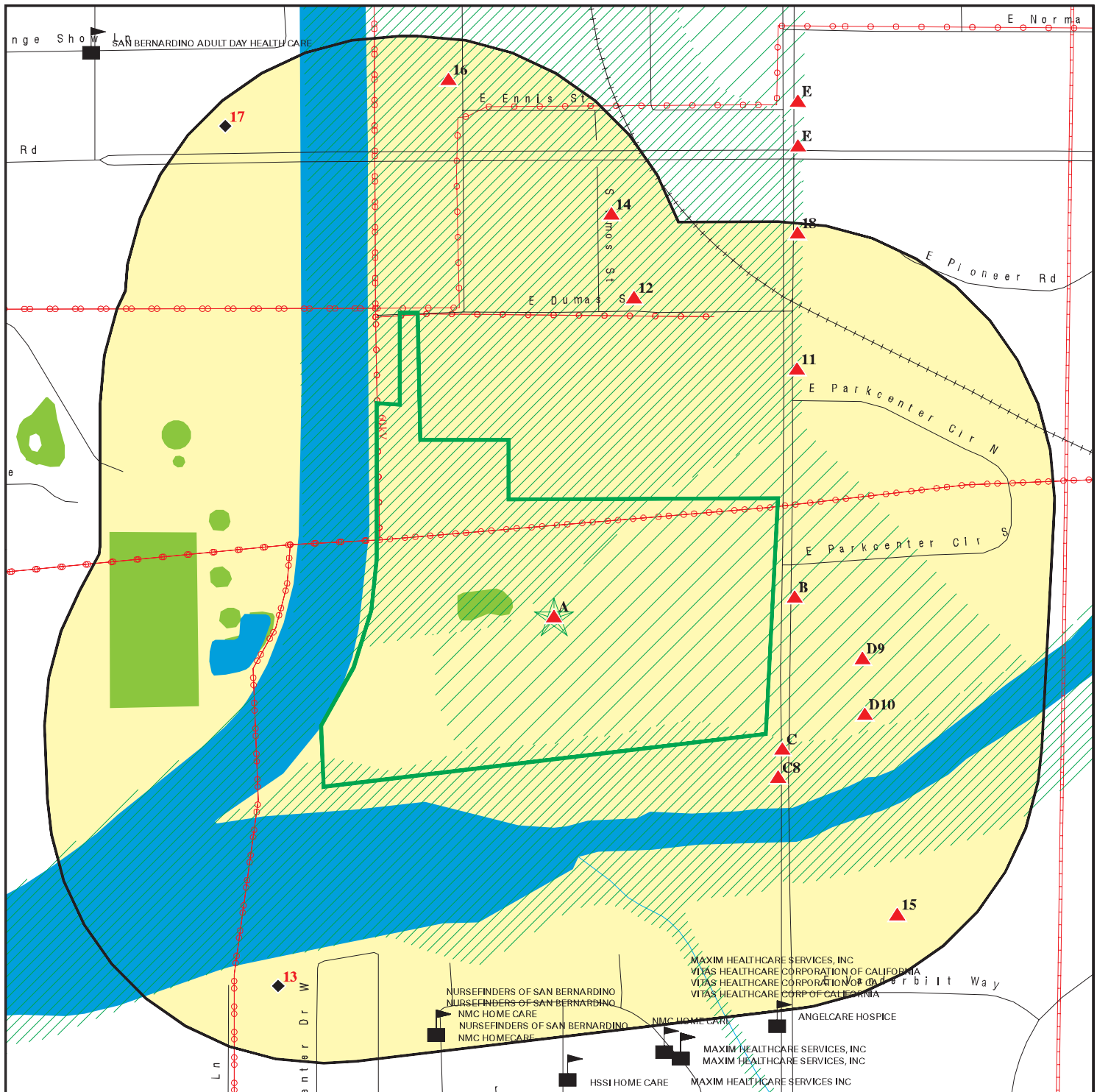

















This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Gateway South Building 4
 ADDRESS: 1494 South Waterman Avenue
 San Bernardino CA 92408
 LAT/LONG: 34.07367 / 117.282413

CLIENT: Terracon
 CONTACT: David Jamison
 INQUIRY #: 4796773.2S
 DATE: December 05, 2016 3:21 pm

DETAIL MAP - 4796773.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Areas of Concern
-  Power transmission lines
-  Pipelines
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p>SITE NAME: Gateway South Building 4 ADDRESS: 1494 South Waterman Avenue San Bernardino CA 92408 LAT/LONG: 34.07367 / 117.282413</p>	<p>CLIENT: Terracon CONTACT: David Jamison INQUIRY #: 4796773.2s DATE: December 05, 2016 3:24 pm</p>
--	---

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	1	NR	NR	NR	1
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
RESPONSE	1.000		0	0	0	1	NR	1
<i>State- and tribal - equivalent CERCLIS</i>								
ENVIROSTOR	1.000		0	0	3	2	NR	5
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	1	0	NR	NR	1
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		0	0	13	NR	NR	13

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		1	0	1	NR	NR	2
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		2	0	NR	NR	NR	2
HIST UST	0.250		2	0	NR	NR	NR	2
CA FID UST	0.250		2	0	NR	NR	NR	2
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	1	NR	NR	NR	NR	NR	1
HIST CORTESE	0.500		0	0	7	NR	NR	7
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	1	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MINES	TP		NR	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
San Bern. Co. Permit	0.250	1	3	6	NR	NR	NR	10
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
ABANDONED MINES	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0

- Totals -- 2 11 9 24 3 0 49

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1 **SAN BERNARDINO GOLF CLUB**
Target **1494 S WATERMAN AVE**
Property **SAN BERNARDINO, CA 92408**

HAZNET **S113048536**
 N/A

Site 1 of 2 in cluster A

Actual:
1004 ft.

HAZNET:
 envid: S113048536
 Year: 2004
 GEPAID: CAL000070084
 Contact: WALTER HAMMOND SUPERINTENDENT
 Telephone: 9098852414
 Mailing Name: Not reported
 Mailing Address: 1494 S WATERMAN AVE
 Mailing City,St,Zip: SAN BERNARDINO, CA 924082805
 Gen County: Not reported
 TSD EPA ID: CAD088504881
 TSD County: Not reported
 Waste Category: Other inorganic solid waste
 Disposal Method: Transfer Station
 Tons: 1
 Cat Decode: Other inorganic solid waste
 Method Decode: Transfer Station
 Facility County: San Bernardino

 envid: S113048536
 Year: 2004
 GEPAID: CAL000070084
 Contact: WALTER HAMMOND SUPERINTENDENT
 Telephone: 9098852414
 Mailing Name: Not reported
 Mailing Address: 1494 S WATERMAN AVE
 Mailing City,St,Zip: SAN BERNARDINO, CA 924082805
 Gen County: Not reported
 TSD EPA ID: CAD028409019
 TSD County: Not reported
 Waste Category: Unspecified oil-containing waste
 Disposal Method: Transfer Station
 Tons: 0.15
 Cat Decode: Unspecified oil-containing waste
 Method Decode: Transfer Station
 Facility County: San Bernardino

 envid: S113048536
 Year: 2004
 GEPAID: CAL000070084
 Contact: WALTER HAMMOND SUPERINTENDENT
 Telephone: 9098852414
 Mailing Name: Not reported
 Mailing Address: 1494 S WATERMAN AVE
 Mailing City,St,Zip: SAN BERNARDINO, CA 924082805
 Gen County: Not reported
 TSD EPA ID: CAD028409019
 TSD County: Not reported
 Waste Category: Latex waste
 Disposal Method: Transfer Station
 Tons: 0.2
 Cat Decode: Latex waste
 Method Decode: Transfer Station

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SAN BERNARDINO GOLF CLUB (Continued)

S113048536

Facility County: San Bernardino

envid: S113048536
Year: 2004
GEPAID: CAL000070084
Contact: WALTER HAMMOND SUPERINTENDENT
Telephone: 9098852414
Mailing Name: Not reported
Mailing Address: 1494 S WATERMAN AVE
Mailing City,St,Zip: SAN BERNARDINO, CA 924082805
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Pesticides and other waste associated with pesticide production
Disposal Method: Transfer Station
Tons: 0.15
Cat Decode: Pesticides and other waste associated with pesticide production
Method Decode: Transfer Station
Facility County: San Bernardino

envid: S113048536
Year: 2004
GEPAID: CAL000070084
Contact: WALTER HAMMOND SUPERINTENDENT
Telephone: 9098852414
Mailing Name: Not reported
Mailing Address: 1494 S WATERMAN AVE
Mailing City,St,Zip: SAN BERNARDINO, CA 924082805
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Disposal, Other
Tons: 67.42
Cat Decode: Other organic solids
Method Decode: Disposal, Other
Facility County: San Bernardino

[Click this hyperlink](#) while viewing on your computer to access
3 additional CA_HAZNET: record(s) in the EDR Site Report.

**A2
Target
Property**

**SAN BERNARDINO GOLF CLUB
1494 S WATERMAN AVE
SAN BERNARDINO, CA 92408**

**San Bern. Co. Permit S103369271
N/A**

Site 2 of 2 in cluster A

**Actual:
1004 ft.**

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0005891
Owner: SELF, TOM
Permit Number: PT0004362
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 04/30/2017

Region: SAN BERNARDINO
Facility ID: FA0005891

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SAN BERNARDINO GOLF CLUB (Continued)

S103369271

Owner: SELF, TOM
Permit Number: PT0004363
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 04/30/2017

B3
East
< 1/8
0.020 mi.
104 ft.

SEPULVEDA BUILDING MATERIALS
1485 S WATERMAN AVE
SAN BERNARDINO, CA 92408

AST S113142747
HAZNET N/A

Site 1 of 2 in cluster B

Relative:
Higher

AST:

Actual:
1006 ft.

Certified Unified Program Agencies: Not reported
Owner: Sepulveda Building Materials
Total Gallons: Not reported
CERSID: 10422460
Facility ID: FA0006104
Business Name: Sepulveda Building Materials, Inc.
Phone: 909-915-1800
Fax: 909-915-1802
Mailing Address: 1485 S Waterman Ave
Mailing Address City: San Bernardino
Mailing Address State: CA
Mailing Address Zip Code: 92408
Operator Name: Sepulveda Building Materials
Operator Phone: 949-347-2100
Owner Phone: 949-347-2100
Owner Mail Address: 28092 Forbes Road
Owner State: CA
Owner Zip Code: 92677
Owner Country: United States
Property Owner Name: SEPULVEDA BUILDING MATERIALS
Property Owner Phone: 949-347-2100
Property Owner Mailing Address: 28092 FORBES ROAD
Property Owner City: Laguna Niguel
Property Owner Stat : CA
Property Owner Zip Code: 92677
Property Owner Country: United States
EPAID: CAL000068492

HAZNET:

envid: S113142747
Year: 2014
GEPAID: CAL000307203
Contact: AL FERGADES
Telephone: 9493472100
Mailing Name: Not reported
Mailing Address: 28092 FORBES RD
Mailing City,St,Zip: LAGUNA NIGUEL, CA 926771246
Gen County: San Bernardino
TSD EPA ID: AZR000501510
TSD County: 99
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.05

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SEPULVEDA BUILDING MATERIALS (Continued)

S113142747

Cat Decode: Other organic solids
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Facility County: San Bernardino

envid: S113142747
Year: 2013
GEPaid: CAL000307203
Contact: AL FERGADES
Telephone: 9493472100
Mailing Name: Not reported
Mailing Address: 28092 FORBES RD
Mailing City,St,Zip: LAGUNA NIGUEL, CA 926771246
Gen County: San Bernardino
TSD EPA ID: AZR000501510
TSD County: 99
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Tons: 0.125
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Facility County: Not reported

envid: S113142747
Year: 2011
GEPaid: CAL000307203
Contact: AL FERGADES
Telephone: 9493472100
Mailing Name: Not reported
Mailing Address: 28092 FORBES RD
Mailing City,St,Zip: LAGUNA NIGUEL, CA 926771246
Gen County: Not reported
TSD EPA ID: AZR000501510
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Tons: 0.1
Cat Decode: Other organic solids
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Facility County: San Bernardino

envid: S113142747
Year: 2011
GEPaid: CAL000307203
Contact: AL FERGADES
Telephone: 9493472100
Mailing Name: Not reported
Mailing Address: 28092 FORBES RD
Mailing City,St,Zip: LAGUNA NIGUEL, CA 926771246
Gen County: Not reported
TSD EPA ID: AZR000501510
TSD County: Not reported
Waste Category: Other organic solids

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SEPULVEDA BUILDING MATERIALS (Continued)

S113142747

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1
Cat Decode: Other organic solids
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: San Bernardino

envid: S113142747
Year: 2007
GEPaid: CAL000307203
Contact: AL FERGADES
Telephone: 9493472100
Mailing Name: Not reported
Mailing Address: 28092 FORBES RD
Mailing City,St,Zip: LAGUNA NIGUEL, CA 926771246
Gen County: Not reported
TSD EPA ID: CAD982444481
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.4
Cat Decode: Other organic solids
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: San Bernardino

[Click this hyperlink](#) while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

**B4
East
< 1/8
0.020 mi.
104 ft.**

**SEPULVEDA BUILDING MAT.
1485 S WATERMAN AVE
SAN BERNARDINO, CA 92408**

**San Bern. Co. Permit S105298628
N/A**

Site 2 of 2 in cluster B

**Relative:
Higher**

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0006104
Owner: SEPULVEDA BUILDING MATERIAL
Permit Number: PT0010057
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 03/31/2017

**Actual:
1006 ft.**

Region: SAN BERNARDINO
Facility ID: FA0006104
Owner: SEPULVEDA BUILDING MATERIAL
Permit Number: PT0023861
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 03/31/2017

Region: SAN BERNARDINO
Facility ID: FA0006104
Owner: SEPULVEDA BUILDING MATERIAL
Permit Number: PT0010056

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SEPULVEDA BUILDING MAT. (Continued)

S105298628

Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 03/31/2017

**C5
ESE
< 1/8
0.020 mi.
106 ft.**

**FERGS
9539 S WATERMAN AVE
SAN BERNARDINO, CA 92408**

**HIST UST U001576046
N/A**

Site 1 of 4 in cluster C

**Relative:
Higher**

HIST UST:

File Number: 0002A2D7
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A2D7.pdf>
Region: STATE
Facility ID: 00000046038
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 7143813795
Owner Name: MONGKHON VIRIYAPANTHU
Owner Address: 9539 S. WATERMAN AVE.
Owner City,St,Zip: SAN BERNARDINO, CA 92408
Total Tanks: 0003

**Actual:
1004 ft.**

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Pressure Test

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Pressure Test

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Pressure Test

Click here for Geo Tracker PDF:

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

C6
ESE
< 1/8
0.020 mi.
106 ft.

TEXACO
9539 S WATERMAN AVE
SAN BERNARDINO, CA 92408

SWEEPS UST **S101591399**
CA FID UST **N/A**

Site 2 of 4 in cluster C

Relative:
Higher

SWEEPS UST:

Actual:
1004 ft.

Status: Active
 Comp Number: 46038
 Number: 9
 Board Of Equalization: 44-021076
 Referral Date: 11-11-91
 Action Date: 07-28-92
 Created Date: 02-29-88
 Owner Tank Id: 1
 SWRCB Tank Id: 36-000-046038-000001
 Tank Status: A
 Capacity: 7500
 Active Date: 08-25-88
 Tank Use: M.V. FUEL
 STG: P
 Content: REG UNLEADED
 Number Of Tanks: 3

Status: Active
 Comp Number: 46038
 Number: 9
 Board Of Equalization: 44-021076
 Referral Date: 11-11-91
 Action Date: 07-28-92
 Created Date: 02-29-88
 Owner Tank Id: 2
 SWRCB Tank Id: 36-000-046038-000002
 Tank Status: A
 Capacity: 7500
 Active Date: 08-25-88
 Tank Use: M.V. FUEL
 STG: P
 Content: REG UNLEADED
 Number Of Tanks: Not reported

Status: Active
 Comp Number: 46038
 Number: 9
 Board Of Equalization: 44-021076
 Referral Date: 11-11-91
 Action Date: 07-28-92
 Created Date: 02-29-88
 Owner Tank Id: 3
 SWRCB Tank Id: 36-000-046038-000003
 Tank Status: A
 Capacity: 7500
 Active Date: 08-25-88
 Tank Use: M.V. FUEL
 STG: P
 Content: LEADED
 Number Of Tanks: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO (Continued)

S101591399

CA FID UST:
Facility ID: 36006184
Regulated By: UTNKA
Regulated ID: 00046038
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 11244 ROSARITA
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN BERNARDINO 92408
Contact: Not reported
Contact Phone: Not reported
DUNS Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

**C7
ESE
< 1/8
0.020 mi.
106 ft.**

**LEONARD OJENA
9501 S WATERMAN
SAN BERNARDINO, CA 92408**

**SWEEPS UST S101591018
CA FID UST N/A**

Site 3 of 4 in cluster C

**Relative:
Higher**

SWEEPS UST:
Status: Not reported
Comp Number: 10557
Number: Not reported
Board Of Equalization: 44-020284
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-010557-000001
Tank Status: Not reported
Capacity: 1
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: 3

**Actual:
1004 ft.**

Status: Not reported
Comp Number: 10557
Number: Not reported
Board Of Equalization: 44-020284
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-010557-000002
Tank Status: Not reported
Capacity: 1
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LEONARD OJENA (Continued)

S101591018

Content: UNKNOWN
 Number Of Tanks: Not reported

Status: Not reported
 Comp Number: 10557
 Number: Not reported
 Board Of Equalization: 44-020284
 Referral Date: Not reported
 Action Date: Not reported
 Created Date: Not reported
 Owner Tank Id: Not reported
 SWRCB Tank Id: 36-000-010557-000003
 Tank Status: Not reported
 Capacity: 1
 Active Date: Not reported
 Tank Use: UNKNOWN
 STG: PRODUCT
 Content: UNKNOWN
 Number Of Tanks: Not reported

CA FID UST:

Facility ID: 36000813
 Regulated By: UTNKA
 Regulated ID: Not reported
 Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: Not reported
 Mail To: Not reported
 Mailing Address: 24129 NORMAN DR
 Mailing Address 2: Not reported
 Mailing City,St,Zip: SAN BERNARDINO 92408
 Contact: Not reported
 Contact Phone: Not reported
 DUNs Number: Not reported
 NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Active

**C8
 SE
 < 1/8
 0.040 mi.
 213 ft.**

**BLACKLAND PROPERTIES
 WATERMAN AVENUE & SANTA ANA RI
 SAN BERNARDINO ,CA, CA**

**WMUDS/SWAT S101311838
 N/A**

Site 4 of 4 in cluster C

**Relative:
 Higher**

WMUDS/SWAT:
 Edit Date: 19940701
 Complexity: Not reported
 Primary Waste: Not reported
 Primary Waste Type: Not reported
 Secondary Waste: Not reported
 Secondary Waste Type: Not reported
 Base Meridian: SB
 NPID: Not reported
 Tonnage: 0
 Regional Board ID: Not reported
 Municipal Solid Waste: False

**Actual:
 1004 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BLACKLAND PROPERTIES (Continued)

S101311838

Superorder: False
Open To Public: False
Waste List: False
Agency Type: Not reported
Agency Name: Not reported
Agency Department: Not reported
Agency Address: Not reported
Agency City,St,Zip: Not reported
Agency Contact: UNKNOWN
Agency Telephone: Not reported
Land Owner Name: EFAC INC.
Land Owner Address: 45 S. HUDSON AVE., 4TH FLOOR
Land Owner City,St,Zip: PASADENA, CA 91101
Land Owner Contact: MARGARET THOMAS
Land Owner Phone: 8185688558
Region: 8
Facility Type: Not reported
Facility Description: Not reported
Facility Telephone: Not reported
SWAT Facility Name: Blackland--Properties Site
Primary SIC: Not reported
Secondary SIC: Not reported
Comments: Not reported
Last Facility Editors: BDNBDNBDN
Waste Discharge System: False
Solid Waste Assessment Test Program: True
Toxic Pits Cleanup Act Program: False
Resource Conservation Recovery Act: False
Department of Defence: False
Solid Waste Assessment Test Program: Not reported
Threat to Water Quality: Not reported
Sub Chapter 15: False
Regional Board Project Officer: JPL
Number of WMUDS at Facility: 1
Section Range: 01S04W23
RCRA Facility: Not reported
Waste Discharge Requirements: Not reported
Self-Monitoring Rept. Frequency: Not reported
Waste Discharge System ID: 8 360004NUR
Solid Waste Information ID: Not reported

D9
East
< 1/8
0.084 mi.
442 ft.

STRUCTURAL MATERIALS COMPANY
1515 S WATERMAN AVE
SAN BERNARDINO, CA 92408

San Bern. Co. Permit **S102042197**
N/A

Site 1 of 2 in cluster D

Relative:
Higher

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0007599
Owner: STRUCTURAL MATERIALS COMPANY
Permit Number: PT0013056
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status: ACTIVE
Expiration Date: 08/31/2016

Actual:
1007 ft.

Region: SAN BERNARDINO
Facility ID: FA0005800

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STRUCTURAL MATERIALS COMPANY (Continued)

S102042197

Owner: MASON, DOUGLAS ROLAND
Permit Number: PT0006395
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2002

Region: SAN BERNARDINO
Facility ID: FA0005800
Owner: MASON, DOUGLAS ROLAND
Permit Number: PT0006394
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 11/30/2002

D10
ESE
< 1/8
0.089 mi.
468 ft.

ROOFERS ASPHALT EQUIPMENT CO
9975 S WATERMAN AVENUE
SAN BERNARDINO, CA 92408

HIST UST 1000228447
N/A

Site 2 of 2 in cluster D

Relative:
Higher

HIST UST:

File Number: 0002A549
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A549.pdf>
Region: STATE
Facility ID: 00000009884
Facility Type: Other
Other Type: SELL USED TRUCKS & E
Contact Name: Not reported
Telephone: 7148841275
Owner Name: ROOFERS ASPHALT EQUIPMENT CO.
Owner Address: 9975 S. WATERMAN AVENUE
Owner City,St,Zip: SAN BERNARDINO, CA 92408
Total Tanks: 0002

Actual:
1005 ft.

Tank Num: 001
Container Num: 1-B
Year Installed: 1981
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 002
Container Num: 1-A
Year Installed: 1969
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual

Click here for Geo Tracker PDF:

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

11	MEADOWBROOK DAIRY 1335 WATERMAN AVE SAN BERNARDINO, CA 92408	San Bern. Co. Permit	S108536471 N/A
NE < 1/8 0.119 mi. 626 ft.			

Relative: Higher	San Bern. Co. Permit:
	Region: SAN BERNARDINO
	Facility ID: FA0000564
	Owner: MEADOWBROOK DAIRY
Actual: 1012 ft.	Permit Number: PT0003764
	Permit Category: HAZMAT HANDLER - AGRICULTURAL(FE)
	Facility Status: INACTIVE
	Expiration Date: 04/30/1991

12	HAZ MAT TRANS INC 230 E DUMAS ST SAN BERNARDINO, CA 92408	RCRA-CESQG	1000123780
NNE 1/8-1/4 0.172 mi. 907 ft.		PADS FINDS HWT	CAT080012800

Relative: Higher	RCRA-CESQG:
	Date form received by agency: 07/18/2011
Actual: 1010 ft.	Facility name: HAZ MAT TRANS INC
	Facility address: 230 E DUMAS ST SAN BERNARDINO, CA 92408
	EPA ID: CAT080012800
	Contact: DEVA J MCKNIGHT
	Contact address: 230 E DUMAS ST SAN BERNARDINO, CA 92408
	Contact country: US
	Contact telephone: 909-889-5607
	Contact email: DEVA@HAZMATTRANS.COM
	EPA Region: 09
	Land type: Private
	Classification: Conditionally Exempt Small Quantity Generator
	Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:	
Owner/operator name:	HAZ MAT TRANS INC
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private

San Bern. Co. Permit
ECHO

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAZ MAT TRANS INC (Continued)

1000123780

Owner/Operator Type: Operator
Owner/Op start date: 04/15/1987
Owner/Op end date: Not reported

Owner/operator name: CARL AND DEVA MCKNIGHT TRUST
Owner/operator address: 230 E DUMAS ST
SAN BERNARDINO, CA 92408

Owner/operator country: US
Owner/operator telephone: 909-889-5607
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 05/23/2000
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: Yes

. Waste code: D001
. Waste name: IGNITABLE WASTE

Historical Generators:

Date form received by agency: 02/04/2003
Site name: HAZ MAT TRANS INC
Classification: Not a generator, verified

Date form received by agency: 07/06/2000
Site name: HAZ MAT TRANS INC
Classification: Not a generator, verified

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 04/16/2014
Date achieved compliance: 04/16/2014
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/16/2014
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAZ MAT TRANS INC (Continued)

1000123780

Paid penalty amount: Not reported

Regulation violated: F - 263
Area of violation: Transporters - General
Date violation determined: 05/26/1998
Date achieved compliance: 05/28/1998
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/26/1998
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 08/15/1995
Date achieved compliance: 09/05/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/15/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 08/15/1995
Date achieved compliance: 09/05/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/15/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 04/16/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/16/2014
Evaluation lead agency: State

Evaluation date: 05/26/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Transporters - General
Date achieved compliance: 05/28/1998
Evaluation lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAZ MAT TRANS INC (Continued)

1000123780

Evaluation date: 08/15/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/05/1995
Evaluation lead agency: State

Evaluation date: 08/15/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 09/05/1995
Evaluation lead agency: State

Evaluation date: 05/08/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/08/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

PADS:

EPAID: CAT080012800
Facility name: HAZ MAT TRANS, INC.
Facility Address: 230 E DUMAS ST
SAN BERNARDINO, CA 92408
Facility country: US
Generator: No
Storer: No
Transporter: Yes
Disposer: No
Research facility: No
Smelter: No
Facility owner name: DEVA MCKNIGHT
Contact title: PRESIDENT
Contact name: DEVA MCKNIGHT
Contact tel: (909)889-5607
Contact extension: Not reported
Mailing address: P.O. BOX 5129
SAN BERNARDINO, CA 92412
Mailing country: US
Cert. title: PRESIDENT
Cert. name: DEVA MCKNIGHT
Cert. date: 06/26/1995
Date received: 07/17/1995

FINDS:

Registry ID: 110002945911

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART)
provides California with information on hazardous waste shipments for
generators, transporters, and treatment, storage, and disposal

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HAZ MAT TRANS INC (Continued)

1000123780

facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

HWT:

Reg Num: 115
Expiration Date: 05/31/2016

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0003727
Owner: MCKNIGHT, DEVA
Permit Number: PT0007217
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2016

Region: SAN BERNARDINO
Facility ID: FA0003727
Owner: MCKNIGHT, DEVA
Permit Number: PT0007218
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 09/30/2016

ECHO:

Envid: 1000123780
Registry ID: 110002945911
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002945911

13
SW
1/8-1/4
0.185 mi.
976 ft.

LINCARE INC
1802 COMMERCENTER WEST G
SAN BERNARDINO, CA 92408

San Bern. Co. Permit S104767790
N/A

Relative:
Lower

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0004434
Owner: LINCARE INC
Permit Number: PT0009449
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 09/30/2007

Actual:
992 ft.

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

14
North
1/8-1/4
0.197 mi.
1040 ft.

ALLEN ENGINEERING CONTRACTOR INC
1199 S AMOS ST
SAN BERNARDINO, CA 92408

San Bern. Co. Permit S110326746
N/A

Relative:
Higher

San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0013264
 Owner: ALLEN ENGINEERING CNTRCTOR INC
 Permit Number: PT0023395
 Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
 Facility Status: ACTIVE
 Expiration Date: 09/30/2016

Actual:
1011 ft.

Region: SAN BERNARDINO
 Facility ID: FA0013264
 Owner: ALLEN ENGINEERING CNTRCTOR INC
 Permit Number: PT0023396
 Permit Category: SMALL QUANTITY GENERATOR
 Facility Status: ACTIVE
 Expiration Date: 09/30/2016

15
SE
1/8-1/4
0.202 mi.
1065 ft.

BLACKLAND PROPERTIES SITE
NE OF WATERMAN AVE AND VANDERBILT WAY
SAN BERNARDINO, CA

SWF/LF S109821508
N/A

Relative:
Higher

SWF/LF (SWIS):

Region: STATE
 Facility ID: 36-CR-0070
 Lat/Long: 34.06976 / -117.277
 Owner Name: Not reported
 Owner Telephone: Not reported
 Owner Address: Not reported
 Owner Address2: Not reported
 Owner City,St,Zip: Not reported
 Operational Status: Not reported
 Operator: Not reported
 Operator Phone: Not reported
 Operator Address: Not reported
 Operator Address2: Not reported
 Operator City,St,Zip: Not reported
 Permit Date: Not reported
 Permit Status: Not reported
 Permitted Acreage: Not reported
 Activity: Not reported
 Regulation Status: Not reported
 Landuse Name: Commercial
 GIS Source: External
 Category: Not reported
 Unit Number: Not reported
 Inspection Frequency: Not reported
 Accepted Waste: Not reported
 Closure Date: Not reported
 Closure Type: Not reported
 Disposal Acreage: Not reported
 SWIS Num: 36-CR-0070
 Waste Discharge Requirement Num: Not reported

Actual:
1007 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BLACKLAND PROPERTIES SITE (Continued)

S109821508

Program Type: Not reported
Permitted Throughput with Units: Not reported
Actual Throughput with Units: Not reported
Permitted Capacity with Units: Not reported
Remaining Capacity: Not reported
Remaining Capacity with Units: Not reported
Lat/Long: 34.06976 / -117.277

16
North
1/8-1/4
0.213 mi.
1126 ft.

JOB OPTIONS, INC
1110 S WASHINGTON ST
SAN BERNARDINO, CA 92408

HAZNET
San Bern. Co. Permit

S106718509
N/A

Relative:
Higher

HAZNET:
envid: S106718509
Year: 2013
Actual: GEPAID: CAL000387964
1005 ft. Contact: JOE RYAN
Telephone: 8586881784
Mailing Name: Not reported
Mailing Address: 1110 S WASHINGTON AVE
Mailing City,St,Zip: SAN BERNARDINO, CA 92408
Gen County: San Bernardino
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1668
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Not reported

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0009369
Owner: JOB OPTIONS, INC
Permit Number: PT0016033
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 12/31/2016

Region: SAN BERNARDINO
Facility ID: FA0009369
Owner: JOB OPTIONS, INC
Permit Number: PT0023779
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: ACTIVE
Expiration Date: 12/31/2016

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

17
NW
1/8-1/4
0.231 mi.
1220 ft.

TOMBYLL PLASTICS INC
236 W ORANGE SHOW LN
SAN BERNARDINO, CA 92408

San Bern. Co. Permit

S110326747
N/A

Relative:
Lower

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0013265
Owner: TOMBYLL PLASTICS INC
Permit Number: PT0023398
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: ACTIVE
Expiration Date: 09/30/2016

Actual:
998 ft.

Region: SAN BERNARDINO
Facility ID: FA0013265
Owner: TOMBYLL PLASTICS INC
Permit Number: PT0023397
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 09/30/2013

18
NNE
1/8-1/4
0.241 mi.
1272 ft.

VERIZON CALIFORNIA, INC: WATERMAN CO
1245 S WATERMAN AVE
SAN BERNARDINO, CA 92408

San Bern. Co. Permit

S104905570
N/A

Relative:
Higher

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0003645
Owner: Verizon California Inc.
Permit Number: PT0005188
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 10/31/2016

Actual:
1015 ft.

Region: SAN BERNARDINO
Facility ID: FA0003645
Owner: Verizon California Inc.
Permit Number: PT0010309
Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
Facility Status: ACTIVE
Expiration Date: 10/31/2016

Region: SAN BERNARDINO
Facility ID: FA0003645
Owner: Verizon California Inc.
Permit Number: PT0024076
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 10/31/2013

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

E19 **CHEN-LA AUTO REPAIR**
NNE **1195 S WATERMAN AVE**
1/4-1/2 **SAN BERNARDINO, CA 92408**
0.320 mi.
1688 ft. **Site 1 of 4 in cluster E**

LUST **S104568635**
San Bern. Co. Permit **N/A**

Relative:
Higher

LUST:

Actual:
1016 ft.

Region: STATE
Global Id: T0607100624
Latitude: 34.0798159
Longitude: -117.278586
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/04/2001
Lead Agency: SAN BERNARDINO COUNTY
Case Worker: JC
Local Agency: SAN BERNARDINO COUNTY
RB Case Number: 083603599T
LOC Case Number: 99133
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Contact:

Global Id: T0607100624
Contact Type: Local Agency Caseworker
Contact Name: JACKSON CRUTSINGER
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: jcrutsinger@sbcfire.org
Phone Number: Not reported

Global Id: T0607100624
Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rscott@waterboards.ca.gov
Phone Number: 9513206375

Status History:

Global Id: T0607100624
Status: Completed - Case Closed
Status Date: 01/04/2001

Global Id: T0607100624
Status: Open - Case Begin Date
Status Date: 09/30/1999

Global Id: T0607100624
Status: Open - Remediation
Status Date: 08/14/2000

Global Id: T0607100624

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEN-LA AUTO REPAIR (Continued)

S104568635

Status: Open - Remediation
Status Date: 09/28/2000

Global Id: T0607100624
Status: Open - Site Assessment
Status Date: 09/30/1999

Regulatory Activities:

Global Id: T0607100624
Action Type: Other
Date: 09/30/1999
Action: Leak Stopped

Global Id: T0607100624
Action Type: Other
Date: 09/30/1999
Action: Leak Discovery

Global Id: T0607100624
Action Type: Other
Date: 11/01/1999
Action: Leak Reported

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0001875
Owner: JAMES KEO
Permit Number: PT0001108
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: ACTIVE
Expiration Date: 01/31/2017

Region: SAN BERNARDINO
Facility ID: FA0001875
Owner: JAMES KEO
Permit Number: PT0001109
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 01/31/2016

E20
NNE
1/4-1/2
0.320 mi.
1688 ft.

VALLEY GAS / AUTO REPAIR
1195 WATERMAN AVE
SAN BERNARDINO, CA 92408

LUST **S103625053**
HIST CORTESE **N/A**

Site 2 of 4 in cluster E

Relative:
Higher

LUST REG 8:

Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083603599T
Local Case Num: 99133
Case Type: Soil only
Substance: Gasoline
Qty Leaked: Not reported

Actual:
1016 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALLEY GAS / AUTO REPAIR (Continued)

S103625053

Abate Method:	Not reported
Cross Street:	E. ORANGE SHOW ROAD
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100624
How Stopped Date:	9/30/1999
Enter Date:	1/26/2000
Date Confirmation of Leak Began:	9/30/1999
Date Preliminary Assessment Began:	Not reported
Discover Date:	9/30/1999
Enforcement Date:	Not reported
Close Date:	1/4/2001
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	8/14/2000
Date Remedial Action Underway:	9/28/2000
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	1/26/2000
GW Qualifies:	Not reported
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.079983
Longitude:	-117.278433
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	1
Max MTBE Soil:	129
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	RS
Staff Initials:	JC3
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	No
Summary:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083603599T

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

E21 **FRANK'S FENCE**
NNE **1145 S WATERMAN AVE**
1/4-1/2 **SAN BERNARDINO, CA 92408**
0.360 mi.
1900 ft. **Site 3 of 4 in cluster E**

LUST **S109285213**
 N/A

Relative:
Higher

LUST:

Actual:
1016 ft.

Region: STATE
Global Id: T0607100126
Latitude: 34.0803993
Longitude: -117.278594
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 11/20/1998
Lead Agency: SAN BERNARDINO COUNTY
Case Worker: CB
Local Agency: SAN BERNARDINO COUNTY
RB Case Number: 083601117T
LOC Case Number: 90004
File Location: Local Agency
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Contact:

Global Id: T0607100126
Contact Type: Local Agency Caseworker
Contact Name: CURTIS BRUNDAGE
Organization Name: SAN BERNARDINO COUNTY
Address: 620 S. E STREET
City: SAN BERNARDINO
Email: cbrundage@sbcfire.org
Phone Number: Not reported

Global Id: T0607100126
Contact Type: Regional Board Caseworker
Contact Name: VALERIE JAHN-BULL
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: vjahn-bull@waterboards.ca.gov
Phone Number: 9517824903

Status History:

Global Id: T0607100126
Status: Completed - Case Closed
Status Date: 11/20/1998

Global Id: T0607100126
Status: Open - Case Begin Date
Status Date: 11/12/1988

Global Id: T0607100126
Status: Open - Site Assessment
Status Date: 01/04/1989

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FRANK'S FENCE (Continued)

S109285213

Regulatory Activities:

Global Id:	T0607100126
Action Type:	ENFORCEMENT
Date:	11/20/1998
Action:	Closure/No Further Action Letter
Global Id:	T0607100126
Action Type:	REMEDIATION
Date:	03/18/1998
Action:	Soil Vapor Extraction (SVE)
Global Id:	T0607100126
Action Type:	REMEDIATION
Date:	11/28/1988
Action:	Excavation
Global Id:	T0607100126
Action Type:	Other
Date:	11/29/1988
Action:	Leak Stopped
Global Id:	T0607100126
Action Type:	ENFORCEMENT
Date:	12/12/1988
Action:	Notice of Responsibility
Global Id:	T0607100126
Action Type:	ENFORCEMENT
Date:	04/26/1993
Action:	Notice to Comply
Global Id:	T0607100126
Action Type:	ENFORCEMENT
Date:	10/05/1998
Action:	LOP Case Closure Summary to RB
Global Id:	T0607100126
Action Type:	Other
Date:	11/29/1988
Action:	Leak Discovery
Global Id:	T0607100126
Action Type:	Other
Date:	11/12/1988
Action:	Leak Reported
Global Id:	T0607100126
Action Type:	RESPONSE
Date:	08/04/1998
Action:	Monitoring Report - Quarterly
Global Id:	T0607100126
Action Type:	RESPONSE
Date:	11/28/1988
Action:	Unauthorized Release Form

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

E22 **FRANK'S FENCE**
NNE **1145 WATERMAN AVE**
1/4-1/2 **SAN BERNARDINO, CA 92408**
0.360 mi.
1900 ft. **Site 4 of 4 in cluster E**

LUST **S103968654**
HIST CORTESE **N/A**

Relative:
Higher

LUST REG 8:

Actual:
1016 ft.

Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083601117T
Local Case Num:	90004
Case Type:	Aquifer affected
Substance:	Unleaded Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	ENNIS
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Piping
Global ID:	T0607100126
How Stopped Date:	11/29/1988
Enter Date:	1/4/1989
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	11/29/1988
Enforcement Date:	Not reported
Close Date:	11/20/1998
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	1/4/1989
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	1/4/1989
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0808717
Longitude:	-117.2786417
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	3
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	VJJ
Staff Initials:	CB5
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FRANK'S FENCE (Continued)

S103968654

Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: THREE GROUNDWATER MONITORING WELLS INSTALLED 4/22/91. GROUNDWATER CONTAMINATION FOUND.

HIST CORTESE:

Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083601117T

**F23
SSE
1/4-1/2
0.383 mi.
2020 ft.**

**WATERMAN SHELL
1930 S WATERMAN AVE
SAN BERNARDINO, CA 92408**

Site 1 of 2 in cluster F

**LUST U001576086
UST N/A
HIST UST**

**Relative:
Higher**

LUST:

Region: STATE
Global Id: T0607100153
Latitude: 34.066183
Longitude: -117.279193
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/18/1991
Lead Agency: SANTA ANA RWQCB (REGION 8)
Case Worker: CAB
Local Agency: SAN BERNARDINO COUNTY
RB Case Number: 083601302T
LOC Case Number: 90054
File Location: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

**Actual:
1015 ft.**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id: T0607100153
Contact Type: Local Agency Caseworker
Contact Name: CATHERINE RICHARDS
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: crichards@sbcfire.org
Phone Number: 9093868419

Global Id: T0607100153
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: cbernhardt@waterboards.ca.gov
Phone Number: 9517824495

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WATERMAN SHELL (Continued)

U001576086

Status History:

Global Id: T0607100153
Status: Completed - Case Closed
Status Date: 06/18/1991

Global Id: T0607100153
Status: Open - Case Begin Date
Status Date: 06/07/1989

Global Id: T0607100153
Status: Open - Site Assessment
Status Date: 08/04/1989

Global Id: T0607100153
Status: Open - Site Assessment
Status Date: 01/16/1991

Regulatory Activities:

Global Id: T0607100153
Action Type: ENFORCEMENT
Date: 09/25/1989
Action: Staff Letter

Global Id: T0607100153
Action Type: ENFORCEMENT
Date: 06/18/1991
Action: Closure/No Further Action Letter

Global Id: T0607100153
Action Type: Other
Date: 06/07/1989
Action: Leak Discovery

Global Id: T0607100153
Action Type: Other
Date: 07/28/1989
Action: Leak Reported

LUST REG 8:

Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: No Action
Case Number: Not reported
Local Case Num: 2002025
Case Type: Aquifer affected
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: EAST HOSPITALITY LANE
Enf Type: Not reported
Funding: Not reported
How Discovered: GWM
How Stopped: Not reported
Leak Cause: UNK

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WATERMAN SHELL (Continued)

U001576086

Leak Source: UNK
Global ID: T0607190543
How Stopped Date: Not reported
Enter Date: Not reported
Date Confirmation of Leak Began: Not reported
Date Preliminary Assessment Began: Not reported
Discover Date: 12/14/2001
Enforcement Date: Not reported
Close Date: Not reported
Date Prelim Assessment Workplan Submitted: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring: Not reported
Enter Date: Not reported
GW Qualifies: =
Soil Qualifies: =
Operator: Not reported
Facility Contact: Not reported
Interim: Not reported
Oversite Program: LUST
Latitude: 0
Longitude: 0
MTBE Date: 10/10/2002
Max MTBE GW: 91000
MTBE Concentration: 0
Max MTBE Soil: 7500
MTBE Fuel: 1
MTBE Tested: MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class: *
Staff: CAB
Staff Initials: LH6
Lead Agency: Local Agency
Local Agency: 36000L
Hydr Basin #: Not reported
Beneficial: MUN
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: Not reported

UST:

Facility ID: 86009188
Permitting Agency: SAN BERNARDINO COUNTY
Latitude: 34.06599313
Longitude: -117.279045

HIST UST:

File Number: 0002A61A
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A61A.pdf>
Region: STATE
Facility ID: 00000036276
Facility Type: Gas Station
Other Type: Not reported
Contact Name: RIEKER & JOHNSON
Telephone: 7148849606

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WATERMAN SHELL (Continued)

U001576086

Owner Name: SHELL OIL CO
Owner Address: P.O. BOX 4848
Owner City,St,Zip: Not reported
Total Tanks: 0004

Tank Num: 001
Container Num: #4
Year Installed: Not reported
Tank Capacity: 00009700
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: #3
Year Installed: Not reported
Tank Capacity: 00009700
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: #2
Year Installed: Not reported
Tank Capacity: 00009700
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: #1
Year Installed: Not reported
Tank Capacity: 00009700
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

[Click here for Geo Tracker PDF:](#)

F24 SHELL SERVICE STATION
SSE 1930 WATERMAN
1/4-1/2 SAN BERNARDINO, CA 92408
0.383 mi.
2020 ft. Site 2 of 2 in cluster F

LUST S104791949
HIST CORTESE N/A

Relative: LUST:
Higher Region: STATE
Global Id: T0607190543
Actual: Latitude: 34.066082345
1015 ft. Longitude: -117.2791326
Case Type: LUST Cleanup Site
Status: Open - Verification Monitoring
Status Date: 10/29/2009
Lead Agency: SANTA ANA RWQCB (REGION 8)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL SERVICE STATION (Continued)

S104791949

Case Worker: CAB
Local Agency: Not reported
RB Case Number: T0607190543
LOC Case Number: 2002025
File Location: Local Agency
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: MTBE / TBA / Other Fuel Oxygenates, Gasoline
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Contact:

Global Id: T0607190543
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: cbernhardt@waterboards.ca.gov
Phone Number: 9517824495

Status History:

Global Id: T0607190543
Status: Open - Assessment & Interim Remedial Action
Status Date: 09/30/2002

Global Id: T0607190543
Status: Open - Case Begin Date
Status Date: 12/14/2001

Global Id: T0607190543
Status: Open - Remediation
Status Date: 10/03/2002

Global Id: T0607190543
Status: Open - Remediation
Status Date: 08/28/2008

Global Id: T0607190543
Status: Open - Site Assessment
Status Date: 10/10/2002

Global Id: T0607190543
Status: Open - Verification Monitoring
Status Date: 10/29/2009

Regulatory Activities:

Global Id: T0607190543
Action Type: REMEDIATION
Date: 10/03/2002
Action: Free Product Removal

Global Id: T0607190543
Action Type: RESPONSE
Date: 06/10/2015
Action: Email Correspondence - Regulator Responded

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL SERVICE STATION (Continued)

S104791949

Global Id:	T0607190543
Action Type:	RESPONSE
Date:	12/31/2014
Action:	Request for Closure - Regulator Responded
Global Id:	T0607190543
Action Type:	REMEDIATION
Date:	12/06/2002
Action:	Excavation
Global Id:	T0607190543
Action Type:	REMEDIATION
Date:	07/18/2006
Action:	Soil Vapor Extraction (SVE)
Global Id:	T0607190543
Action Type:	REMEDIATION
Date:	12/07/2003
Action:	In Situ Physical/Chemical Treatment (other than SVE)
Global Id:	T0607190543
Action Type:	ENFORCEMENT
Date:	11/16/2015
Action:	State Water Board Closure Order
Global Id:	T0607190543
Action Type:	ENFORCEMENT
Date:	03/08/2016
Action:	Verbal Communication
Global Id:	T0607190543
Action Type:	ENFORCEMENT
Date:	06/26/2015
Action:	State Water Board Closure Order
Global Id:	T0607190543
Action Type:	ENFORCEMENT
Date:	01/02/2014
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607190543
Action Type:	Other
Date:	11/22/2002
Action:	Leak Stopped
Global Id:	T0607190543
Action Type:	REMEDIATION
Date:	07/23/2006
Action:	In Situ Biological Treatment
Global Id:	T0607190543
Action Type:	ENFORCEMENT
Date:	06/26/2015
Action:	Clean Up Fund - Case Closure Review Summary Report (RSR)
Global Id:	T0607190543
Action Type:	RESPONSE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL SERVICE STATION (Continued)

S104791949

Date: 04/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0607190543
Action Type: RESPONSE
Date: 04/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0607190543
Action Type: RESPONSE
Date: 11/30/2012
Action: Soil and Water Investigation Workplan - Addendum

Global Id: T0607190543
Action Type: RESPONSE
Date: 09/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0607190543
Action Type: RESPONSE
Date: 07/30/2012
Action: Soil and Water Investigation Report

Global Id: T0607190543
Action Type: ENFORCEMENT
Date: 11/21/2008
Action: Referral to Regional Board - #2002025

Global Id: T0607190543
Action Type: ENFORCEMENT
Date: 11/21/2008
Action: Referral to Regional Board - #2002025

Global Id: T0607190543
Action Type: RESPONSE
Date: 04/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607190543
Action Type: ENFORCEMENT
Date: 07/08/2015
Action: Notification - Public Notice of Case Closure

Global Id: T0607190543
Action Type: RESPONSE
Date: 04/26/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607190543
Action Type: RESPONSE
Date: 10/30/2010
Action: Soil and Water Investigation Report

Global Id: T0607190543
Action Type: RESPONSE
Date: 04/30/2011
Action: Soil and Water Investigation Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL SERVICE STATION (Continued)

S104791949

Global Id: T0607190543
Action Type: RESPONSE
Date: 10/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607190543
Action Type: RESPONSE
Date: 08/01/2008
Action: Other Report / Document

Global Id: T0607190543
Action Type: ENFORCEMENT
Date: 07/30/2009
Action: Staff Letter

Global Id: T0607190543
Action Type: RESPONSE
Date: 01/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0607190543
Action Type: RESPONSE
Date: 07/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0607190543
Action Type: ENFORCEMENT
Date: 09/26/2011
Action: Staff Letter

Global Id: T0607190543
Action Type: ENFORCEMENT
Date: 11/14/2012
Action: Verbal Enforcement

Global Id: T0607190543
Action Type: Other
Date: 12/14/2001
Action: Leak Discovery

Global Id: T0607190543
Action Type: Other
Date: 12/17/2001
Action: Leak Reported

LUST REG 8:

Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083601302T
Local Case Num: 90054
Case Type: Aquifer affected
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL SERVICE STATION (Continued)

S104791949

Cross Street:	HOSPITALITY
Enf Type:	None Taken
Funding:	Not reported
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100153
How Stopped Date:	Not reported
Enter Date:	9/8/1989
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	8/4/1989
Discover Date:	6/7/1989
Enforcement Date:	1/1/1965
Close Date:	6/18/1991
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	1/16/1991
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	9/8/1989
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0672462
Longitude:	-117.2789076
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE. Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	CAB
Staff Initials:	CR2
Lead Agency:	Regional Board
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083601302T

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

25
SE
1/4-1/2
0.412 mi.
2175 ft.

**LANDFILL, WATERMAN
 VNADERBILT & CARNEGIE
 SAN BERNARDINO ,CA, CA 92408**

**WMUDS/SWAT S103442720
 N/A**

**Relative:
 Higher**

WMUDS/SWAT:

**Actual:
 1028 ft.**

Edit Date: 19940718
 Complexity: Not reported
 Primary Waste: SLDWST
 Primary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
 Secondary Waste: Not reported
 Secondary Waste Type: Not reported
 Base Meridian: Not reported
 NPID: Not reported
 Tonnage: 0
 Regional Board ID: Not reported
 Municipal Solid Waste: False
 Superorder: False
 Open To Public: False
 Waste List: False
 Agency Type: Private
 Agency Name: TRI-CITY CORPORATE CENTER
 Agency Department: Not reported
 Agency Address: 485 CARNEGIE DR.
 Agency City,St,Zip: SAN BERNARDINO ,CA 92408
 Agency Contact: ROD Q. MAC DONALD
 Agency Telephone: 7143815301
 Land Owner Name: RANCON REALTY FUNDS
 Land Owner Address: 27720 JEFFERSON AVE.
 Land Owner City,St,Zip: TEMECULA, CA 92590
 Land Owner Contact: JOHN SHAW
 Land Owner Phone: 7146766664
 Region: 8
 Facility Type: Solid Waste Site-Class III - Landfills for non hazardous solid wastes.
 Facility Description: Not reported
 Facility Telephone: Not reported
 SWAT Facility Name: Not reported
 Primary SIC: 4953
 Secondary SIC: Not reported
 Comments: Not reported
 Last Facility Editors: BDNBDNBDN
 Waste Discharge System: True
 Solid Waste Assessment Test Program: True
 Toxic Pits Cleanup Act Program: False
 Resource Conservation Recovery Act: False
 Department of Defence: False
 Solid Waste Assessment Test Program: Not reported
 Threat to Water Quality: Not reported
 Sub Chapter 15: False
 Regional Board Project Officer: DBL
 Number of WMUDS at Facility: 1
 Section Range: Not reported
 RCRA Facility: No
 Waste Discharge Requirements: P

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LANDFILL, WATERMAN (Continued)

S103442720

Self-Monitoring Rept. Frequency: Not reported
 Waste Discharge System ID: 8 362277001
 Solid Waste Information ID: Not reported

G26
WNW
1/4-1/2
0.415 mi.
2190 ft.

ALAMEDA MANAGEMENT #512
499 ORANGE SHOW RD
SAN BERNARDINO, CA 92408
Site 1 of 2 in cluster G

LUST **S101590962**
SWEEPS UST **N/A**
CA FID UST
HIST CORTESE

Relative:
Lower

LUST REG 8:

Region: 8
 County: San Bernardino
 Regional Board: Santa Ana Region
 Facility Status: Case Closed
 Case Number: 083601775T
 Local Case Num: 90103
 Case Type: Aquifer affected
 Substance: Gasoline
 Qty Leaked: Not reported
 Abate Method: Vapor Extraction
 Cross Street: E STREET
 Enf Type: Not reported
 Funding: Not reported
 How Discovered: Tank Closure
 How Stopped: Not reported
 Leak Cause: UNK
 Leak Source: UNK
 Global ID: T0607100210
 How Stopped Date: 12/5/1990
 Enter Date: 3/18/1991
 Date Confirmation of Leak Began: 12/5/1990
 Date Preliminary Assessment Began: Not reported
 Discover Date: 12/5/1990
 Enforcement Date: Not reported
 Close Date: 11/6/1997
 Date Prelim Assessment Workplan Submitted: 4/1/1991
 Date Pollution Characterization Began: 6/21/1991
 Date Remediation Plan Submitted: Not reported
 Date Remedial Action Underway: Not reported
 Date Post Remedial Action Monitoring: 6/9/1997
 Enter Date: 3/18/1991
 GW Qualifies: Not reported
 Soil Qualifies: Not reported
 Operator: Not reported
 Facility Contact: Not reported
 Interim: No
 Oversight Program: LUST
 Latitude: 34.0797136
 Longitude: -117.2925902
 MTBE Date: Not reported
 Max MTBE GW: Not reported
 MTBE Concentration: 0
 Max MTBE Soil: Not reported
 MTBE Fuel: 1
 MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
 MTBE Class: *
 Staff: RS

Actual:
988 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALAMEDA MANAGEMENT #512 (Continued)

S101590962

Staff Initials: CR2
Lead Agency: Local Agency
Local Agency #: 36000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: MTBE MAX 14PPB, BENZENE MAX 0.5PPB 03/14/97.

SWEEPS UST:

Status: Not reported
Comp Number: 29927
Number: Not reported
Board Of Equalization: 44-020844
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-029927-000001
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 3

Status: Not reported
Comp Number: 29927
Number: Not reported
Board Of Equalization: 44-020844
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-029927-000002
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 29927
Number: Not reported
Board Of Equalization: 44-020844
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-029927-000003
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALAMEDA MANAGEMENT #512 (Continued)

S101590962

Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:

Facility ID: 36000370
Regulated By: UTNKA
Regulated ID: 00029927
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 499 ORANGE SHOW RD
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN BERNARDINO 92408
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST CORTESE:

Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083601775T

G27 NEVADA INVESTMENT HOLDINGS(ALAMEDA MANAGEMENT #512
WNW 499 ORANGE SHOW RD
1/4-1/2 SAN BERNARDINO, CA 92402
0.415 mi.
2190 ft. **Site 2 of 2 in cluster G**

LUST U001576044
HIST UST N/A

Relative:
Lower

LUST:

Actual:
988 ft.

Region: STATE
Global Id: T0607100210
Latitude: 34.0785539
Longitude: -117.292061
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 11/06/1997
Lead Agency: SAN BERNARDINO COUNTY
Case Worker: CR2
Local Agency: SAN BERNARDINO COUNTY
RB Case Number: 083601775T
LOC Case Number: 90103
File Location: Local Agency
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NEVADA INVESTMENT HOLDINGS(ALAMEDA MANAGEMENT #512 (Continued))

U001576044

Global Id: T0607100210
Contact Type: Local Agency Caseworker
Contact Name: CATHERINE RICHARDS
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: crichards@sbcfire.org
Phone Number: 9093868419

Global Id: T0607100210
Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rscott@waterboards.ca.gov
Phone Number: 9513206375

Status History:

Global Id: T0607100210
Status: Completed - Case Closed
Status Date: 11/06/1997

Global Id: T0607100210
Status: Open - Case Begin Date
Status Date: 12/05/1990

Global Id: T0607100210
Status: Open - Site Assessment
Status Date: 12/05/1990

Global Id: T0607100210
Status: Open - Site Assessment
Status Date: 04/01/1991

Global Id: T0607100210
Status: Open - Site Assessment
Status Date: 06/21/1991

Global Id: T0607100210
Status: Open - Verification Monitoring
Status Date: 06/09/1997

Regulatory Activities:

Global Id: T0607100210
Action Type: ENFORCEMENT
Date: 11/06/1997
Action: Closure/No Further Action Letter

Global Id: T0607100210
Action Type: REMEDIATION
Date: 04/09/1995
Action: Soil Vapor Extraction (SVE)

Global Id: T0607100210
Action Type: Other

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NEVADA INVESTMENT HOLDINGS(ALAMEDA MANAGEMENT #512 (Continued)

U001576044

Date: 12/05/1990
Action: Leak Stopped

Global Id: T0607100210
Action Type: ENFORCEMENT
Date: 02/07/1995
Action: Notice of Violation

Global Id: T0607100210
Action Type: ENFORCEMENT
Date: 09/15/1994
Action: Notice of Violation

Global Id: T0607100210
Action Type: ENFORCEMENT
Date: 10/01/1997
Action: LOP Case Closure Summary to RB

Global Id: T0607100210
Action Type: Other
Date: 12/05/1990
Action: Leak Discovery

Global Id: T0607100210
Action Type: Other
Date: 12/06/1990
Action: Leak Reported

HIST UST:

File Number: 0002A775
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A775.pdf>
Region: STATE
Facility ID: 00000029927
Facility Type: Gas Station
Other Type: Not reported
Contact Name: HENSLEY BARBOUR
Telephone: 2132782160
Owner Name: TESORO GASOLINE MARKETING CO.
Owner Address: 9201 W. OLYMPIC BLVD.
Owner City,St,Zip: BEVERLY HILLS, CA 90212
Total Tanks: 0003

Tank Num: 001
Container Num: 3
Year Installed: ????

Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 1
Year Installed: ????

Tank Capacity: 00012000
Tank Used for: PRODUCT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NEVADA INVESTMENT HOLDINGS(ALAMEDA MANAGEMENT #512 (Continued)

U001576044

Type of Fuel: PREMIUM
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 2
Year Installed: 1974
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

[Click here for Geo Tracker PDF:](#)

28
NE
1/4-1/2
0.427 mi.
2253 ft.

TEXACO SERVICE STATION
505 ORANGE SHOW
SAN BERNARDINO, CA 92408

RCRA-SQG 1005441159
LUST CAR000116194
HIST UST

Relative:
Higher

RCRA-SQG:

Date form received by agency: 05/14/2002
Facility name: TEXACO SERVICE STATION
Facility address: 505 ORANGE SHOW
S A P 135884
SAN BERNARDINO, CA 92408
EPA ID: CAR000116194
Mailing address: P O BOX 2648
HOUSTON, TX 772522648
Contact: SONDRA BIENVENU
Contact address: P O BOX 2648
HOUSTON, TX 772522648
Contact country: US
Contact telephone: (713) 241-5036
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Actual:
1024 ft.

Owner/Operator Summary:

Owner/operator name: EQUILON ENT LLC DBA S O P US
Owner/operator address: P O BOX 2648
HOUSTON, TX 77252
Owner/operator country: Not reported
Owner/operator telephone: (713) 241-5036
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO SERVICE STATION (Continued)

1005441159

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

LUST:

Region: STATE
Global Id: T0607100097
Latitude: 34.07896
Longitude: -117.294698
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/27/1988
Lead Agency: SAN BERNARDINO COUNTY
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 083600929T
LOC Case Number: 87054
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Contact:

Global Id: T0607100097
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: cbernhardt@waterboards.ca.gov
Phone Number: 9517824495

Status History:

Global Id: T0607100097
Status: Completed - Case Closed
Status Date: 06/27/1988

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO SERVICE STATION (Continued)

1005441159

Global Id: T0607100097
Status: Open - Case Begin Date
Status Date: 04/03/1986

Regulatory Activities:

Global Id: T0607100097
Action Type: ENFORCEMENT
Date: 06/27/1988
Action: Closure/No Further Action Letter

Global Id: T0607100097
Action Type: Other
Date: 04/03/1986
Action: Leak Discovery

Global Id: T0607100097
Action Type: Other
Date: 04/14/1986
Action: Leak Reported

Region: STATE
Global Id: T0607195783
Latitude: 34.0789406666666
Longitude: -117.294538
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/29/2014
Lead Agency: SANTA ANA RWQCB (REGION 8)
Case Worker: CAB
Local Agency: SAN BERNARDINO COUNTY
RB Case Number: 083604076T
LOC Case Number: 2003004
File Location: Local Agency
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: MTBE / TBA / Other Fuel Oxygenates, Gasoline, ** TERT-BUTYL ALCOHOL (TBA), * TERT-BUTYL ALCOHOL (TBA)
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Contact:

Global Id: T0607195783
Contact Type: Local Agency Caseworker
Contact Name: THERESA CONGDON
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: tcongdon@sbcfire.org
Phone Number: Not reported

Global Id: T0607195783
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO SERVICE STATION (Continued)

1005441159

Email: cbernhardt@waterboards.ca.gov
Phone Number: 9517824495

Status History:

Global Id: T0607195783
Status: Completed - Case Closed
Status Date: 01/29/2014

Global Id: T0607195783
Status: Open - Assessment & Interim Remedial Action
Status Date: 04/15/2008

Global Id: T0607195783
Status: Open - Case Begin Date
Status Date: 11/20/2002

Global Id: T0607195783
Status: Open - Eligible for Closure
Status Date: 05/28/2013

Global Id: T0607195783
Status: Open - Site Assessment
Status Date: 11/20/2002

Global Id: T0607195783
Status: Open - Site Assessment
Status Date: 03/10/2003

Global Id: T0607195783
Status: Open - Verification Monitoring
Status Date: 12/30/2010

Regulatory Activities:

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 09/30/2011
Action: Staff Letter

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 01/02/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 01/29/2014
Action: Closure/No Further Action Letter

Global Id: T0607195783
Action Type: RESPONSE
Date: 09/30/2012
Action: Other Report / Document

Global Id: T0607195783
Action Type: RESPONSE
Date: 10/15/2012

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO SERVICE STATION (Continued)

1005441159

Action: Verbal Communication

Global Id: T0607195783
Action Type: REMEDIATION
Date: 04/15/2008
Action: Soil Vapor Extraction (SVE)

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 05/06/2010
Action: Staff Letter

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 09/30/2011
Action: Staff Letter

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 10/15/2012
Action: Verbal Enforcement

Global Id: T0607195783
Action Type: RESPONSE
Date: 02/28/2010
Action: Soil and Water Investigation Workplan

Global Id: T0607195783
Action Type: RESPONSE
Date: 04/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607195783
Action Type: RESPONSE
Date: 10/24/2011
Action: Other Report / Document

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 12/16/2009
Action: Meeting

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 07/09/2013
Action: Staff Letter

Global Id: T0607195783
Action Type: RESPONSE
Date: 12/30/2010
Action: Site Assessment Report

Global Id: T0607195783
Action Type: RESPONSE
Date: 10/30/2011
Action: Other Report / Document

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO SERVICE STATION (Continued)

1005441159

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 03/19/2009
Action: Referral to Regional Board

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 05/02/2013
Action: Notification - Public Notice of Case Closure

Global Id: T0607195783
Action Type: ENFORCEMENT
Date: 01/29/2010
Action: Staff Letter

Global Id: T0607195783
Action Type: Other
Date: 12/12/2002
Action: Leak Discovery

Global Id: T0607195783
Action Type: RESPONSE
Date: 11/20/2013
Action: Verbal Communication

Global Id: T0607195783
Action Type: Other
Date: 12/12/2002
Action: Leak Reported

HIST UST:

File Number: 0002A644
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A644.pdf>
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

H29 TOSCO/ 76 STATION #4975 (#30776)
SSE 1950 WATERMAN AVE
1/4-1/2 SAN BERNARDINO, CA 92408
0.433 mi.
2284 ft. Site 1 of 2 in cluster H

LUST S104754602
HIST CORTESE N/A

Relative:
Higher

LUST REG 8:

Actual:
1018 ft.

Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Remediation Plan
Case Number:	083603227T
Local Case Num:	98043
Case Type:	Aquifer affected
Substance:	8006619, MTB
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	HOSPITALITY
Enf Type:	VER
Funding:	Not reported
How Discovered:	Not reported
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0607100491
How Stopped Date:	Not reported
Enter Date:	9/16/1998
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	7/14/1998
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	4/27/1999
Date Remediation Plan Submitted:	10/12/2000
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	9/16/1998
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0656623
Longitude:	-117.2789076
MTBE Date:	9/5/2001
Max MTBE GW:	47000
MTBE Concentration:	1
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	C
Staff:	NOM
Staff Initials:	LH6
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	MUN

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TOSCO/ 76 STATION #4975 (#30776) (Continued)

S104754602

Priority: A1
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: JANUARY 1999 TWO GW MONITORING WELLS INSTALLED.

HIST CORTESE:

Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000479T

Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083003268T

H30 UNOCAL STN
SSE 1950 S WATERMAN
1/4-1/2 SAN BERNARDINO, CA 92408
0.452 mi.
2385 ft.

Site 2 of 2 in cluster H

LUST S101591393
SWEEPS UST N/A
HIST UST
CA FID UST
San Bern. Co. Permit

**Relative:
Higher**

LUST:

Region: STATE
Global Id: T0607100491
Latitude: 34.0656623
Longitude: -117.2789076
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/06/2011
Lead Agency: SAN BERNARDINO COUNTY
Case Worker: CR2
Local Agency: SAN BERNARDINO COUNTY
RB Case Number: 083603227T
LOC Case Number: 98043
File Location: Local Agency
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline, MTBE / TBA / Other Fuel Oxygenates
Site History: Not reported

**Actual:
1018 ft.**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id: T0607100491
Contact Type: Local Agency Caseworker
Contact Name: CATHERINE RICHARDS
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: crichards@sbcfire.org
Phone Number: 9093868419

Global Id: T0607100491
Contact Type: Regional Board Caseworker
Contact Name: NANCY OLSON-MARTIN
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNOCAL STN (Continued)

S101591393

Email: nolson-martin@waterboards.ca.gov
Phone Number: Not reported

Status History:

Global Id: T0607100491
Status: Completed - Case Closed
Status Date: 10/12/2000

Global Id: T0607100491
Status: Completed - Case Closed
Status Date: 06/06/2011

Global Id: T0607100491
Status: Open - Case Begin Date
Status Date: 07/14/1998

Global Id: T0607100491
Status: Open - Remediation
Status Date: 10/12/2000

Global Id: T0607100491
Status: Open - Site Assessment
Status Date: 04/27/1999

Regulatory Activities:

Global Id: T0607100491
Action Type: REMEDIATION
Date: 03/18/2002
Action: Soil Vapor Extraction (SVE)

Global Id: T0607100491
Action Type: RESPONSE
Date: 07/20/2010
Action: Correspondence

Global Id: T0607100491
Action Type: Other
Date: 08/01/1998
Action: Leak Stopped

Global Id: T0607100491
Action Type: ENFORCEMENT
Date: 07/09/2009
Action: Letter - Notice

Global Id: T0607100491
Action Type: ENFORCEMENT
Date: 05/13/2013
Action: Staff Letter

Global Id: T0607100491
Action Type: ENFORCEMENT
Date: 07/18/2002
Action: * Verbal Communication

Global Id: T0607100491

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNOCAL STN (Continued)

S101591393

Action Type:	ENFORCEMENT
Date:	06/16/2011
Action:	Staff Letter
Global Id:	T0607100491
Action Type:	ENFORCEMENT
Date:	03/18/2009
Action:	Staff Letter
Global Id:	T0607100491
Action Type:	ENFORCEMENT
Date:	09/25/2009
Action:	Staff Letter
Global Id:	T0607100491
Action Type:	ENFORCEMENT
Date:	06/06/2011
Action:	Closure/No Further Action Letter
Global Id:	T0607100491
Action Type:	ENFORCEMENT
Date:	07/06/2011
Action:	Staff Letter
Global Id:	T0607100491
Action Type:	Other
Date:	07/14/1998
Action:	Leak Discovery
Global Id:	T0607100491
Action Type:	Other
Date:	07/14/1998
Action:	Leak Reported

SWEEPS UST:

Status:	Active
Comp Number:	19935
Number:	9
Board Of Equalization:	44-000051
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	36-000-019935-000001
Tank Status:	A
Capacity:	12000
Active Date:	08-30-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	3
Status:	Active
Comp Number:	19935
Number:	9
Board Of Equalization:	44-000051

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNOCAL STN (Continued)

S101591393

Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 2
SWRCB Tank Id: 36-000-019935-000002
Tank Status: A
Capacity: 12000
Active Date: 08-30-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 19935
Number: 9
Board Of Equalization: 44-000051
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 3
SWRCB Tank Id: 36-000-019935-000003
Tank Status: A
Capacity: 280
Active Date: 08-30-88
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

HIST UST:

File Number: 0002A928
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A928.pdf>
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNOCAL STN (Continued)

S101591393

Facility ID: 36006102
Regulated By: UTNKA
Regulated ID: 00019935
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 1950 S WATERMAN
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN BERNARDINO 92408
Contact: Not reported
Contact Phone: Not reported
DUNS Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0006735
Owner: RAFAAT RYAD LUGA
Permit Number: PT0002420
Permit Category: HAZMAT HANDLER - UST ONLY
Facility Status: ACTIVE
Expiration Date: 10/31/2016

Region: SAN BERNARDINO
Facility ID: FA0006735
Owner: RAFAAT RYAD LUGA
Permit Number: PT0002421
Permit Category: WASTE INCIDENTAL UST OPERATION ONLY
Facility Status: ACTIVE
Expiration Date: 10/31/2016

Region: SAN BERNARDINO
Facility ID: FA0006735
Owner: RAFAAT RYAD LUGA
Permit Number: PT0011992
Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
Facility Status: ACTIVE
Expiration Date: 10/31/2016

Region: SAN BERNARDINO
Facility ID: FA0006735
Owner: RAFAAT RYAD LUGA
Permit Number: PT0011993
Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
Facility Status: ACTIVE
Expiration Date: 10/31/2016

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

31
NNW
1/4-1/2
0.459 mi.
2423 ft.

BENEDICT PROPERTIES
101 BENEDICT ROAD
SAN BERNARDINO, CA 92408

ENVIROSTOR **S106797651**
N/A

Relative:
Lower

ENVIROSTOR:

Facility ID: 36000013
Status: Refer: 1248 Local Agency
Status Date: 10/25/2001
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0
NPL: NO
Regulatory Agencies: SAN BERNARDINO COUNTY
Lead Agency: SAN BERNARDINO COUNTY
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: 47
Senate: 20
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 34.08377
Longitude: -117.2871
APN: 014128204, 14128204
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 014128204
Alias Type: APN
Alias Name: 14128204
Alias Type: APN
Alias Name: 36000013
Alias Type: Envirostor ID Number

Actual:
998 ft.

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

I32
NNW
1/4-1/2
0.479 mi.
2529 ft.

BENEDICT PROPERTIES
205 BENEDICT ROAD
SAN BERNARDINO, CA 92408

ENVIROSTOR **S106797650**
N/A

Site 1 of 2 in cluster I

Relative:
Lower

ENVIROSTOR:

Facility ID: 36000012
Status: Refer: 1248 Local Agency
Status Date: 10/25/2001
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0
NPL: NO
Regulatory Agencies: SAN BERNARDINO COUNTY
Lead Agency: SAN BERNARDINO COUNTY
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: 47
Senate: 20
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 34.08376
Longitude: -117.2881
APN: 014128223, 12128221
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 014128223
Alias Type: APN
Alias Name: 12128221
Alias Type: APN
Alias Name: 36000012
Alias Type: Envirostor ID Number

Actual:
994 ft.

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

33
SSW
1/4-1/2
0.481 mi.
2538 ft.

TRUCKOMAT
1955 HUNTS LN
SAN BERNARDINO, CA 92408

LUST **S101590965**
SWEEPS UST **N/A**
CA FID UST
HIST CORTESE

Relative:
Lower

LUST:

Actual:
1002 ft.

Region: STATE
Global Id: T0607100235
Latitude: 34.0644601723332
Longitude: -117.287312066666
Case Type: LUST Cleanup Site
Status: Open - Remediation
Status Date: 04/05/2000
Lead Agency: SANTA ANA RWQCB (REGION 8)
Case Worker: NOM
Local Agency: Not reported
RB Case Number: 083601899T
LOC Case Number: 91008
File Location: Regional Board
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Diesel
Site History: 1.81 gallons of free product have been recovered since 2007, although free product was last reported at 0.11 inches. A workplan for limited dual phase remediation was approved in January 2010.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id: T0607100235
Contact Type: Regional Board Caseworker
Contact Name: NANCY OLSON-MARTIN
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: nolson-martin@waterboards.ca.gov
Phone Number: Not reported

Status History:

Global Id: T0607100235
Status: Open - Case Begin Date
Status Date: 08/26/1991

Global Id: T0607100235
Status: Open - Remediation
Status Date: 01/01/1998

Global Id: T0607100235
Status: Open - Remediation
Status Date: 04/05/2000

Global Id: T0607100235
Status: Open - Site Assessment
Status Date: 09/09/1991

Global Id: T0607100235
Status: Open - Site Assessment
Status Date: 09/19/1991

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRUCKOMAT (Continued)

S101590965

Regulatory Activities:

Global Id:	T0607100235
Action Type:	ENFORCEMENT
Date:	03/11/2011
Action:	File review
Global Id:	T0607100235
Action Type:	ENFORCEMENT
Date:	06/14/2011
Action:	Staff Letter
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	04/23/2012
Action:	Other Workplan
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	05/21/2012
Action:	Other Report / Document
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	12/31/2016
Action:	Other Report / Document
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	11/01/2012
Action:	Well Installation Report
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	11/01/2012
Action:	Soil Vapor Intrusion Investigation Report
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	07/09/2012
Action:	Monitoring Report - Quarterly
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	02/04/2014
Action:	Correspondence - Regulator Responded
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	09/26/2014
Action:	Correspondence - Regulator Responded
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	03/06/2015
Action:	Email Correspondence - Regulator Responded
Global Id:	T0607100235

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRUCKOMAT (Continued)

S101590965

Action Type:	RESPONSE
Date:	08/20/2015
Action:	CAP/RAP - Other Report - Regulator Responded
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	04/28/2015
Action:	Email Correspondence - Regulator Responded
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	05/06/2016
Action:	Well Installation Report - Regulator Responded
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	11/13/2015
Action:	Final Remedial Action Report / Corrective Action Report - Regulator Responded
Global Id:	T0607100235
Action Type:	ENFORCEMENT
Date:	02/12/2011
Action:	Referral to Regional Board
Global Id:	T0607100235
Action Type:	ENFORCEMENT
Date:	06/02/2016
Action:	Verbal Enforcement
Global Id:	T0607100235
Action Type:	ENFORCEMENT
Date:	02/25/2016
Action:	Email Correspondence
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	11/30/2015
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	09/30/2016
Action:	Remedial Progress Report
Global Id:	T0607100235
Action Type:	ENFORCEMENT
Date:	07/09/2009
Action:	Staff Letter
Global Id:	T0607100235
Action Type:	ENFORCEMENT
Date:	03/01/1995
Action:	Notice of Violation
Global Id:	T0607100235
Action Type:	ENFORCEMENT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRUCKOMAT (Continued)

S101590965

Date: 09/03/1992
Action: Technical Correspondence / Assistance / Other

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 09/19/1991
Action: Technical Correspondence / Assistance / Other

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 08/01/1995
Action: Referral to District Attorney

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 01/17/1994
Action: File review

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 09/07/2011
Action: Staff Letter

Global Id: T0607100235
Action Type: RESPONSE
Date: 10/02/2014
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0607100235
Action Type: RESPONSE
Date: 09/08/2014
Action: Email Correspondence

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 03/09/2011
Action: File review

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 03/07/2012
Action: Staff Letter

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 04/13/2016
Action: Verbal Enforcement

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 08/12/2016
Action: Verbal Enforcement

Global Id: T0607100235
Action Type: RESPONSE
Date: 11/30/2014
Action: Monitoring Report - Semi-Annually

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRUCKOMAT (Continued)

S101590965

Global Id: T0607100235
Action Type: Other
Date: 08/26/1991
Action: Leak Stopped

Global Id: T0607100235
Action Type: RESPONSE
Date: 08/10/2008
Action: Other Report / Document

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 05/26/1994
Action: Technical Correspondence / Assistance / Other

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 11/21/1991
Action: Notice of Responsibility

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 02/26/2009
Action: Staff Letter

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 02/12/2011
Action: Referral to Regional Board

Global Id: T0607100235
Action Type: REMEDIATION
Date: 01/01/1998
Action: Excavation

Global Id: T0607100235
Action Type: REMEDIATION
Date: 02/14/2003
Action: Free Product Removal

Global Id: T0607100235
Action Type: REMEDIATION
Date: 07/22/2010
Action: Soil Vapor Extraction (SVE)

Global Id: T0607100235
Action Type: RESPONSE
Date: 05/04/2011
Action: Remedial Progress Report

Global Id: T0607100235
Action Type: RESPONSE
Date: 03/04/2011
Action: Correspondence

Global Id: T0607100235
Action Type: ENFORCEMENT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRUCKOMAT (Continued)

S101590965

Date:	06/28/2016
Action:	Verbal Enforcement
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	12/20/2012
Action:	Monitoring Report - Quarterly
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	08/20/2014
Action:	Correspondence
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	08/13/2014
Action:	Correspondence
Global Id:	T0607100235
Action Type:	ENFORCEMENT
Date:	09/22/2013
Action:	Meeting
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	02/06/2013
Action:	Verbal Communication
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	03/20/2014
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	05/27/2015
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607100235
Action Type:	ENFORCEMENT
Date:	01/04/2010
Action:	Staff Letter
Global Id:	T0607100235
Action Type:	REMEDIATION
Date:	04/17/2001
Action:	Excavation
Global Id:	T0607100235
Action Type:	REMEDIATION
Date:	04/06/2000
Action:	Excavation
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	01/30/2012
Action:	Monitoring Report - Semi-Annually

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRUCKOMAT (Continued)

S101590965

Global Id: T0607100235
Action Type: RESPONSE
Date: 01/17/2012
Action: Sensitive Receptor Survey Report

Global Id: T0607100235
Action Type: RESPONSE
Date: 08/04/2011
Action: Soil and Water Investigation Workplan

Global Id: T0607100235
Action Type: RESPONSE
Date: 07/15/2011
Action: Correspondence

Global Id: T0607100235
Action Type: RESPONSE
Date: 09/09/2011
Action: Other Report / Document

Global Id: T0607100235
Action Type: RESPONSE
Date: 10/20/2011
Action: Correspondence

Global Id: T0607100235
Action Type: RESPONSE
Date: 01/17/2012
Action: Site Assessment Report

Global Id: T0607100235
Action Type: RESPONSE
Date: 06/26/2013
Action: Correspondence

Global Id: T0607100235
Action Type: RESPONSE
Date: 07/28/2014
Action: Well Destruction Report

Global Id: T0607100235
Action Type: RESPONSE
Date: 09/18/2015
Action: Correspondence

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 02/12/2011
Action: Referral to Regional Board

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 09/07/2011
Action: Staff Letter

Global Id: T0607100235
Action Type: RESPONSE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRUCKOMAT (Continued)

S101590965

Date: 07/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 03/11/2011
Action: File review

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 08/19/2011
Action: Staff Letter

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 06/04/2012
Action: Staff Letter

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 08/14/2014
Action: Warning Letter

Global Id: T0607100235
Action Type: RESPONSE
Date: 12/14/2011
Action: Correspondence

Global Id: T0607100235
Action Type: RESPONSE
Date: 12/14/2011
Action: Correspondence

Global Id: T0607100235
Action Type: RESPONSE
Date: 04/30/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 08/26/1991
Action: Site Visit / Inspection / Sampling

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 08/11/2010
Action: Staff Letter

Global Id: T0607100235
Action Type: ENFORCEMENT
Date: 08/11/2010
Action: Staff Letter

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRUCKOMAT (Continued)

S101590965

Global Id:	T0607100235
Action Type:	ENFORCEMENT
Date:	09/22/2014
Action:	Meeting
Global Id:	T0607100235
Action Type:	ENFORCEMENT
Date:	03/04/2015
Action:	Staff Letter
Global Id:	T0607100235
Action Type:	Other
Date:	08/26/1991
Action:	Leak Discovery
Global Id:	T0607100235
Action Type:	RESPONSE
Date:	10/07/2013
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607100235
Action Type:	Other
Date:	09/09/1991
Action:	Leak Reported

LUST REG 8:

Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Remediation Plan
Case Number:	083601899T
Local Case Num:	91008
Case Type:	Aquifer affected
Substance:	Diesel
Qty Leaked:	Not reported
Abate Method:	EDIT
Cross Street:	E STREET
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100235
How Stopped Date:	8/26/1991
Enter Date:	7/21/1991
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	8/26/1991
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	9/23/1991
Date Pollution Characterization Began:	12/29/1992
Date Remediation Plan Submitted:	5/26/1994
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRUCKOMAT (Continued)

S101590965

Enter Date: 7/21/1991
GW Qualifies: Not reported
Soil Qualifies: Not reported
Operator: Not reported
Facility Contact: Not reported
Interim: Not reported
Oversite Program: LUST
Latitude: 34.0651172
Longitude: -117.2873829
MTBE Date: Not reported
Max MTBE GW: Not reported
MTBE Concentration: 0
Max MTBE Soil: Not reported
MTBE Fuel: 0
MTBE Tested: Not Required to be Tested.
MTBE Class: *
Staff: NOM
Staff Initials: JC3
Lead Agency: Local Agency
Local Agency: 36000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: Not reported

SWEEPS UST:

Status: Active
Comp Number: 42761
Number: 9
Board Of Equalization: 44-021020
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 3
SWRCB Tank Id: 36-000-042761-000001
Tank Status: A
Capacity: 4000
Active Date: 08-26-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 3

Status: Active
Comp Number: 42761
Number: 9
Board Of Equalization: 44-021020
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 2
SWRCB Tank Id: 36-000-042761-000002
Tank Status: A
Capacity: 10000
Active Date: 08-26-88

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRUCKOMAT (Continued)

S101590965

Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 42761
Number: 9
Board Of Equalization: 44-021020
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 36-000-042761-000003
Tank Status: A
Capacity: 10000
Active Date: 08-26-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:

Facility ID: 36000384
Regulated By: UTNKA
Regulated ID: 00042761
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN BERNARDINO 92408
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST CORTESE:

Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083601899T

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

34
NW
1/4-1/2
0.487 mi.
2569 ft.

SHELL SERVICE STATION
ORANGE SHOW RD
SAN BERNARDINO, CA 92408

HIST CORTESE **S102437350**
N/A

Relative: HIST CORTESE:
Lower Region: CORTESE
 Facility County Code: 36
Actual: Reg By: LTNKA
989 ft. Reg Id: 083600929T

35
West
1/4-1/2
0.488 mi.
2575 ft.

CENTER COLLISION CENTER
1388 S E ST
SAN BERNARDINO, CA 92408

LUST **U001576053**
San Bern. Co. Permit **N/A**

Relative: LUST:
Lower Region: STATE
 Global Id: T0607100149
Actual: Latitude: 34.0761418
978 ft. Longitude: -117.2942422
 Case Type: LUST Cleanup Site
 Status: Completed - Case Closed
 Status Date: 03/31/1997
 Lead Agency: SANTA ANA RWQCB (REGION 8)
 Case Worker: Not reported
 Local Agency: Not reported
 RB Case Number: 083601284T
 LOC Case Number: 90209
 File Location: State Records Center
 Potential Media Affect: Aquifer used for drinking water supply
 Potential Contaminants of Concern: Gasoline
 Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Status History:

Global Id:	T0607100149
Status:	Completed - Case Closed
Status Date:	03/31/1997
Global Id:	T0607100149
Status:	Open - Case Begin Date
Status Date:	05/09/1989
Global Id:	T0607100149
Status:	Open - Site Assessment
Status Date:	08/02/1989
Global Id:	T0607100149
Status:	Open - Site Assessment
Status Date:	08/09/1989
Global Id:	T0607100149
Status:	Open - Site Assessment
Status Date:	08/13/1989
Global Id:	T0607100149

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CENTER COLLISION CENTER (Continued)

U001576053

Status: Open - Site Assessment
Status Date: 03/30/1990

Global Id: T0607100149
Status: Open - Verification Monitoring
Status Date: 05/03/1996

Regulatory Activities:

Global Id: T0607100149
Action Type: ENFORCEMENT
Date: 02/01/1990
Action: Referral to Regional Board

Global Id: T0607100149
Action Type: REMEDIATION
Date: 07/09/1996
Action: Excavation

Global Id: T0607100149
Action Type: Other
Date: 05/09/1989
Action: Leak Stopped

Global Id: T0607100149
Action Type: ENFORCEMENT
Date: 03/31/1997
Action: Closure/No Further Action Letter

Global Id: T0607100149
Action Type: Other
Date: 05/09/1989
Action: Leak Discovery

Global Id: T0607100149
Action Type: Other
Date: 06/05/1989
Action: Leak Reported

Global Id: T0607100149
Action Type: RESPONSE
Date: 06/05/1989
Action: Unauthorized Release Form

Global Id: T0607100149
Action Type: RESPONSE
Date: 08/09/1989
Action: Preliminary Site Assessment Workplan

Global Id: T0607100149
Action Type: RESPONSE
Date: 06/27/1990
Action: Soil and Water Investigation Report

Global Id: T0607100149
Action Type: RESPONSE
Date: 11/13/1997
Action: Unknown

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CENTER COLLISION CENTER (Continued)

U001576053

San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0010286
Owner: CENTER CHEVROLET INC.
Permit Number: PT0017480
Permit Category: HAZMAT HANDLER 11-25 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 04/30/2010

Region: SAN BERNARDINO
Facility ID: FA0010286
Owner: CENTER CHEVROLET INC.
Permit Number: PT0017479
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2010

Region: SAN BERNARDINO
Facility ID: FA0003831
Owner: CENTER CHEVROLET INC.
Permit Number: PT0002589
Permit Category: HAZMAT HANDLER 26-50 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 05/31/2006

Region: SAN BERNARDINO
Facility ID: FA0003831
Owner: CENTER CHEVROLET INC.
Permit Number: PT0002590
Permit Category: HAZARDOUS WASTE GENERATOR - 26-50 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 05/31/2006

I36
NNW
1/4-1/2
0.490 mi.
2588 ft.

BENEDICT PROPERTIES
255 BENEDICT ROAD
SAN BERNARDINO, CA 92408

ENVIROSTOR S106797649
N/A

Site 2 of 2 in cluster I

Relative:
Lower

ENVIROSTOR:

Facility ID: 36000011
Status: Refer: 1248 Local Agency
Status Date: 11/01/2001
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0
NPL: NO
Regulatory Agencies: SAN BERNARDINO COUNTY
Lead Agency: SAN BERNARDINO COUNTY
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: 47
Senate: 20
Special Program: Not reported
Restricted Use: NO

Actual:
994 ft.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BENEDICT PROPERTIES (Continued)

S106797649

Site Mgmt Req: NONE SPECIFIED
 Funding: Not Applicable
 Latitude: 34.08376
 Longitude: -117.2886
 APN: 014128221, 14128223
 Past Use: NONE SPECIFIED
 Potential COC: NONE SPECIFIED
 Confirmed COC: NONE SPECIFIED
 Potential Description: NONE SPECIFIED
 Alias Name: 014128221
 Alias Type: APN
 Alias Name: 14128223
 Alias Type: APN
 Alias Name: 36000011
 Alias Type: Envirostor ID Number

Completed Info:
 Completed Area Name: Not reported
 Completed Sub Area Name: Not reported
 Completed Document Type: Not reported
 Completed Date: Not reported
 Comments: Not reported

Future Area Name: Not reported
 Future Sub Area Name: Not reported
 Future Document Type: Not reported
 Future Due Date: Not reported
 Schedule Area Name: Not reported
 Schedule Sub Area Name: Not reported
 Schedule Document Type: Not reported
 Schedule Due Date: Not reported
 Schedule Revised Date: Not reported

37
NE
1/2-1
0.892 mi.
4711 ft.

NORTH SAN BERNARDINO AREA
BUNKER HILL GROUNDWATER BASIN
SAN BERNARDINO, CA 92401

RESPONSE S100184135
ENVIROSTOR N/A

Relative:
Higher

RESPONSE:
 Facility ID: 36990001
 Site Type: State Response
 Site Type Detail: State Response or NPL
 Acres: Not reported
 National Priorities List: NO
 Cleanup Oversight Agencies: US EPA
 Lead Agency Description: US EPA
 Project Manager: Not reported
 Supervisor: * Greg Holmes
 Division Branch: Cleanup Cypress
 Site Code: 400106
 Site Mgmt. Req.: NONE SPECIFIED
 Assembly: 40
 Senate: 23
 Special Program Status: Not reported
 Status: Refer: Other Agency
 Status Date: 09/25/1995
 Restricted Use: NO

Actual:
1034 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTH SAN BERNARDINO AREA (Continued)

S100184135

Funding: * Unknown
Latitude: 34.08666
Longitude: -117.2716
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC : * HALOGENATED SOLVENTS
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: BUNKER HILL GROUNDWATER BASIN
Alias Type: Alternate Name
Alias Name: MUSCOY AREA
Alias Type: Alternate Name
Alias Name: NEWMARK
Alias Type: Alternate Name
Alias Name: 110033611937
Alias Type: EPA (FRS #)
Alias Name: P41053
Alias Type: PCode
Alias Name: 400106
Alias Type: Project Code (Site Code)
Alias Name: 36990001
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 11/30/1986
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 08/17/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/17/1993
Comments: Removal Action (19th Street). An 8.6 million gallon per day capacity granular activated carbon (GAC) wellhead treatment system was constructed on 19th Street in the City of San Bernardino. This GAC System will be operated by the City of San Bernardino Municipal Water Department. The system will function to help stop the migration of a TCE and PCE contaminated groundwater plume and to provide safe water to residents of the City of San Bernardino. The removal was initiated in June 1992 and completed on August 13, 1993 at a cost of approximately \$1.9 million.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/30/1990
Comments: Removal Action (17&S): 17th & Sierra gw pump/treat online. DTSC and the City of San Bernardino entered into an agreement on 10/31/1986, amended on 04/22/1988, to construct three treatment systems: Waterman, Newmark, and 17th & Sierra. The completion date for the

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTH SAN BERNARDINO AREA (Continued)

S100184135

removal action is 08/30/1990 when all three systems were online. The Newmark System is described in the Newmark Groundwater Contamination Site (ID# 36990002).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/30/1989
Comments: Removal Action (WATER): Waterman gw pump/treat online

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Site Inspection (SI) Report
Completed Date: 06/26/1989
Comments: Site Inspection Done: Preliminary Assessment/Site Investi- gation prepared by DHS TSCP; ongoing IRM Implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 11/30/1987
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:

Facility ID: 36990001
Status: Refer: Other Agency
Status Date: 09/25/1995
Site Code: 400106
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: Not reported
NPL: NO
Regulatory Agencies: US EPA
Lead Agency: US EPA
Program Manager: Not reported
Supervisor: * Greg Holmes
Division Branch: Cleanup Cypress
Assembly: 40
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: * Unknown
Latitude: 34.08666
Longitude: -117.2716
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTH SAN BERNARDINO AREA (Continued)

S100184135

Potential COC: * HALOGENATED SOLVENTS
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: BUNKER HILL GROUNDWATER BASIN
Alias Type: Alternate Name
Alias Name: MUSCOY AREA
Alias Type: Alternate Name
Alias Name: NEWMARK
Alias Type: Alternate Name
Alias Name: 110033611937
Alias Type: EPA (FRS #)
Alias Name: P41053
Alias Type: PCode
Alias Name: 400106
Alias Type: Project Code (Site Code)
Alias Name: 36990001
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 11/30/1986
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 08/17/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/17/1993
Comments: Removal Action (19th Street). An 8.6 million gallon per day capacity granular activated carbon (GAC) wellhead treatment system was constructed on 19th Street in the City of San Bernardino. This GAC System will be operated by the City of San Bernardino Municipal Water Department. The system will function to help stop the migration of a TCE and PCE contaminated groundwater plume and to provide safe water to residents of the City of San Bernardino. The removal was initiated in June 1992 and completed on August 13, 1993 at a cost of approximately \$1.9 million.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/30/1990
Comments: Removal Action (17&S): 17th & Sierra gw pump/treat online. DTSC and the City of San Bernardino entered into an agreement on 10/31/1986, amended on 04/22/1988, to construct three treatment systems: Waterman, Newmark, and 17th & Sierra. The completion date for the removal action is 08/30/1990 when all three systems were online. The Newmark System is described in the Newmark Groundwater Contamination Site (ID# 36990002).

Completed Area Name: PROJECT WIDE

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

NORTH SAN BERNARDINO AREA (Continued)

S100184135

Completed Sub Area Name: Not reported
 Completed Document Type: Removal Action Completion Report
 Completed Date: 08/30/1989
 Comments: Removal Action (WATER): Waterman gw pump/treat online

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: *Site Inspection (SI) Report
 Completed Date: 06/26/1989
 Comments: Site Inspection Done: Preliminary Assessment/Site Investi- gation prepared by DHS TSCP; ongoing IRM Implementation.

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Public Participation Plan / Community Relations Plan
 Completed Date: 11/30/1987
 Comments: Not reported

Future Area Name: Not reported
 Future Sub Area Name: Not reported
 Future Document Type: Not reported
 Future Due Date: Not reported
 Schedule Area Name: Not reported
 Schedule Sub Area Name: Not reported
 Schedule Document Type: Not reported
 Schedule Due Date: Not reported
 Schedule Revised Date: Not reported

**38
 NNW
 1/2-1
 0.969 mi.
 5118 ft.**

SAN BERNARDINO ENG SUB-DEPOT

**ENVIROSTOR S107737221
 N/A**

SAN BERNARDINO, CA

**Relative:
 Lower**

ENVIROSTOR:
 Facility ID: 80000442
 Status: Inactive - Needs Evaluation
 Status Date: 07/01/2005
 Site Code: Not reported
 Site Type: Military Evaluation
 Site Type Detailed: FUDS
 Acres: Not reported
 NPL: NO
 Regulatory Agencies: SMBRP
 Lead Agency: SMBRP
 Program Manager: Not reported
 Supervisor: Douglas Bautista
 Division Branch: Cleanup Cypress
 Assembly: 47
 Senate: 20
 Special Program: Not reported
 Restricted Use: NO
 Site Mgmt Req: NONE SPECIFIED
 Funding: DERA
 Latitude: 34.09055
 Longitude: -117.2916
 APN: NONE SPECIFIED
 Past Use: NONE SPECIFIED

**Actual:
 999 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SAN BERNARDINO ENG SUB-DEPOT (Continued)

S107737221

Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799F559100
Alias Type: Federal Facility ID
Alias Name: J09CA0588
Alias Type: INPR
Alias Name: 80000442
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 8 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
COLTON	S104890632	FIVE POINT AUTO SERVICE	1221 WASHINGTON ST	92324	LUST, HIST CORTESE
COLTON	S101301137	ARCO #6144	22895 WASHINGTON ST	92324	LUST, SWEEPS UST, HIST CORTESI
SAN BERNARDINO	S117347968	GATEWAY SOUTH BUILDING 3	SOUTHEAST OF ORANGE SHOW ROAD	92408	NPDES
SAN BERNARDINO	S105026059	HOLIDAY OLDSMOBILE	1388 E ST	92408	LUST, HIST CORTESE
SAN BERNARDINO	S103943755	CHEVRON #9-9125	1198 E ST	92408	LUST
SAN BERNARDINO	S105624625	U.S. POST OFFICE	1341 E ST	92408	LUST
SAN BERNARDINO	S106797656	CSCO SCREW COMPANY	775 UNIT 6-7 S. GIFFORD STREET	92408	ENVIROSTOR
SAN BERNARDINO COUN	S107538848		HWY 18, 3 MILES NO OF WATERMAN		CDL

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 09/14/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/04/2016	Telephone: 703-603-8704
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 10/04/2016
Number of Days to Update: 17	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/20/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/30/2017
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/20/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/30/2017
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/27/2016	Source: EPA
Date Data Arrived at EDR: 06/30/2016	Telephone: 800-424-9346
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 11/18/2016
Number of Days to Update: 13	Next Scheduled EDR Contact: 02/27/2017
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/09/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/01/2016	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 11/29/2016
Number of Days to Update: 93	Next Scheduled EDR Contact: 03/13/2017
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/09/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/01/2016	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 11/29/2016
Number of Days to Update: 93	Next Scheduled EDR Contact: 03/13/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016

Date Data Arrived at EDR: 09/29/2016

Date Made Active in Reports: 11/11/2016

Number of Days to Update: 43

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 09/29/2016

Next Scheduled EDR Contact: 01/09/2017

Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity.

These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/01/2016

Date Data Arrived at EDR: 08/02/2016

Date Made Active in Reports: 10/05/2016

Number of Days to Update: 64

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 11/01/2016

Next Scheduled EDR Contact: 02/13/2017

Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/01/2016

Date Data Arrived at EDR: 08/02/2016

Date Made Active in Reports: 10/05/2016

Number of Days to Update: 64

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 11/01/2016

Next Scheduled EDR Contact: 02/13/2017

Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/15/2016

Date Data Arrived at EDR: 08/16/2016

Date Made Active in Reports: 10/05/2016

Number of Days to Update: 50

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320

Last EDR Contact: 11/15/2016

Next Scheduled EDR Contact: 02/27/2017

Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 530-542-5572
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/12/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/13/2016	Telephone: see region list
Date Made Active in Reports: 10/14/2016	Last EDR Contact: 11/01/2016
Number of Days to Update: 31	Next Scheduled EDR Contact: 12/26/2016
	Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 09/26/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 08/15/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/01/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 112

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3372
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015	Source: EPA Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-8677
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Semi-Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 04/27/2016	Telephone: 312-886-7439
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/19/2016	Telephone: 214-665-6597
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 105	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

SLIC: Statewide SLIC Cases

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/13/2016	Telephone: 866-480-1028
Date Made Active in Reports: 10/14/2016	Last EDR Contact: 11/01/2016
Number of Days to Update: 31	Next Scheduled EDR Contact: 12/26/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/11/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/12/2016	Telephone: 916-327-5092
Date Made Active in Reports: 09/19/2016	Last EDR Contact: 11/21/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016	Source: EPA Region 9
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3368
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016	Source: EPA Region 8
Date Data Arrived at EDR: 02/05/2016	Telephone: 303-312-6137
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 119	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 10/28/2016
Number of Days to Update: 65	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/04/2016	Telephone: 214-665-7591
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 120	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-9424
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015	Source: EPA Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-6136
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 09/26/2016
Number of Days to Update: 142	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/01/2016	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/02/2016	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2016	Last EDR Contact: 11/01/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 02/13/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfields Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 02/29/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/20/2016
Date Data Arrived at EDR: 09/21/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 51

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/21/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/25/2016
Date Data Arrived at EDR: 08/26/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 49

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/04/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 08/31/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/02/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 05/10/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2016
Date Data Arrived at EDR: 09/27/2016
Date Made Active in Reports: 10/20/2016
Number of Days to Update: 23

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/25/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

DEED: Deed Restriction Listing

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/06/2016	Source: DTSC and SWRCB
Date Data Arrived at EDR: 09/07/2016	Telephone: 916-323-3400
Date Made Active in Reports: 10/14/2016	Last EDR Contact: 09/07/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/27/2016	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 06/28/2016	Telephone: 202-366-4555
Date Made Active in Reports: 09/23/2016	Last EDR Contact: 09/27/2016
Number of Days to Update: 87	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/03/2016	Source: Office of Emergency Services
Date Data Arrived at EDR: 07/26/2016	Telephone: 916-845-8400
Date Made Active in Reports: 09/23/2016	Last EDR Contact: 10/26/2016
Number of Days to Update: 59	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016	Source: State Water Quality Control Board
Date Data Arrived at EDR: 09/13/2016	Telephone: 866-480-1028
Date Made Active in Reports: 10/14/2016	Last EDR Contact: 11/01/2016
Number of Days to Update: 31	Next Scheduled EDR Contact: 12/26/2016
	Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/13/2016	Telephone: 866-480-1028
Date Made Active in Reports: 10/14/2016	Last EDR Contact: 11/01/2016
Number of Days to Update: 31	Next Scheduled EDR Contact: 12/26/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 09/09/2016
Number of Days to Update: 97	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/14/2016
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/14/2016
Number of Days to Update: 339	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/17/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 07/12/2016
Date Data Arrived at EDR: 08/17/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 65

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/08/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 11/18/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 11/07/2016
Number of Days to Update: 3	Next Scheduled EDR Contact: 02/20/2017
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016	Source: EPA
Date Data Arrived at EDR: 04/28/2016	Telephone: 202-566-0500
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 10/14/2016
Number of Days to Update: 127	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/27/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/05/2016	Telephone: 202-564-5088
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 10/11/2016
Number of Days to Update: 77	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 11/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 03/06/2017
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 11/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 03/06/2017
	Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 09/08/2016	Telephone: 301-415-7169
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 11/07/2016
Number of Days to Update: 43	Next Scheduled EDR Contact: 02/20/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 09/09/2016
Number of Days to Update: 76	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/06/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 10/28/2016
Number of Days to Update: 83	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/03/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/05/2016	Telephone: 202-343-9775
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 10/05/2016
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/02/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/23/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/21/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/08/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/07/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 148

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/20/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 88

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 88

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/05/2016
Date Data Arrived at EDR: 09/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 22

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/01/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/15/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 65

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/27/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 52

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/27/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 37

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/24/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 42

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 11/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/10/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 51

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 10/14/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 58

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/12/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Annually

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/11/2016
Date Data Arrived at EDR: 07/13/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/12/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 37

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/16/2016
Date Data Arrived at EDR: 05/18/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 36

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/15/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 37

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board's review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 59

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 877-786-9427
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/18/2016
Date Data Arrived at EDR: 09/20/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/20/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 81

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/14/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 35

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/07/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 27

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 10/21/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 23

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility Listing

Cupa Facility Listing

Date of Government Version: 10/25/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 22

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/24/2016
Date Made Active in Reports: 10/10/2016
Number of Days to Update: 47

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List

Cupa Facility list

Date of Government Version: 11/01/2016
Date Data Arrived at EDR: 11/03/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 19

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 05/24/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 75

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

FRESNO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/11/2016	Source: Dept. of Community Health
Date Data Arrived at EDR: 10/14/2016	Telephone: 559-445-3271
Date Made Active in Reports: 11/18/2016	Last EDR Contact: 09/29/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 10/25/2016	Source: Humboldt County Environmental Health
Date Data Arrived at EDR: 10/27/2016	Telephone: N/A
Date Made Active in Reports: 11/18/2016	Last EDR Contact: 11/21/2016
Number of Days to Update: 22	Next Scheduled EDR Contact: 03/06/2017
	Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 10/24/2016	Source: San Diego Border Field Office
Date Data Arrived at EDR: 10/27/2016	Telephone: 760-339-2777
Date Made Active in Reports: 11/18/2016	Last EDR Contact: 10/24/2016
Number of Days to Update: 22	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 09/10/2013	Source: Inyo County Environmental Health Services
Date Data Arrived at EDR: 09/11/2013	Telephone: 760-878-0238
Date Made Active in Reports: 10/14/2013	Last EDR Contact: 12/02/2016
Number of Days to Update: 33	Next Scheduled EDR Contact: 03/06/2017
	Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 08/04/2016	Source: Kern County Environment Health Services Department
Date Data Arrived at EDR: 08/08/2016	Telephone: 661-862-8700
Date Made Active in Reports: 10/18/2016	Last EDR Contact: 11/07/2016
Number of Days to Update: 71	Next Scheduled EDR Contact: 02/20/2017
	Data Release Frequency: Quarterly

KINGS COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/27/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 26

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 09/08/2016
Date Data Arrived at EDR: 09/09/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 35

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/05/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 37

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/15/2016
Date Data Arrived at EDR: 07/19/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 78

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/18/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016	Source: Community Health Services
Date Data Arrived at EDR: 04/06/2016	Telephone: 323-890-7806
Date Made Active in Reports: 06/13/2016	Last EDR Contact: 10/17/2016
Number of Days to Update: 68	Next Scheduled EDR Contact: 01/30/2017
	Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 04/02/2015	Telephone: 310-524-2236
Date Made Active in Reports: 04/13/2015	Last EDR Contact: 10/17/2016
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/30/2017
	Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 11/13/2015	Telephone: 562-570-2563
Date Made Active in Reports: 12/17/2015	Last EDR Contact: 10/24/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/23/2016	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 07/12/2016	Telephone: 310-618-2973
Date Made Active in Reports: 08/09/2016	Last EDR Contact: 10/07/2016
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/18/2016	Source: Madera County Environmental Health
Date Data Arrived at EDR: 08/22/2016	Telephone: 559-675-7823
Date Made Active in Reports: 09/23/2016	Last EDR Contact: 11/16/2016
Number of Days to Update: 32	Next Scheduled EDR Contact: 03/06/2017
	Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 04/07/2016	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 04/26/2016	Telephone: 415-499-6647
Date Made Active in Reports: 06/01/2016	Last EDR Contact: 09/29/2016
Number of Days to Update: 36	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Semi-Annually

MERCED COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List

CUPA facility list.

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 32

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List

CUPA Facility List

Date of Government Version: 08/29/2016
Date Data Arrived at EDR: 08/31/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 44

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List

CUPA facility list.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/25/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 51

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 08/03/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 53

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/09/2016
Date Made Active in Reports: 10/11/2016
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/08/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 07/18/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 81

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 07/13/2016	Source: Department of Environmental Health
Date Data Arrived at EDR: 07/18/2016	Telephone: 951-358-5055
Date Made Active in Reports: 08/08/2016	Last EDR Contact: 09/19/2016
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/02/2017
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/22/2016	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 10/04/2016	Telephone: 916-875-8406
Date Made Active in Reports: 11/18/2016	Last EDR Contact: 10/04/2016
Number of Days to Update: 45	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Quarterly

Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/02/2016	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 07/06/2016	Telephone: 916-875-8406
Date Made Active in Reports: 08/18/2016	Last EDR Contact: 10/04/2016
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/06/2016	Source: San Bernardino County Fire Department Hazardous Materials Division
Date Data Arrived at EDR: 09/07/2016	Telephone: 909-387-3041
Date Made Active in Reports: 10/19/2016	Last EDR Contact: 11/07/2016
Number of Days to Update: 42	Next Scheduled EDR Contact: 02/20/2017
	Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013	Source: Hazardous Materials Management Division
Date Data Arrived at EDR: 09/24/2013	Telephone: 619-338-2268
Date Made Active in Reports: 10/17/2013	Last EDR Contact: 12/02/2016
Number of Days to Update: 23	Next Scheduled EDR Contact: 03/20/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 09/21/2016
Date Data Arrived at EDR: 09/22/2016
Date Made Active in Reports: 10/18/2016
Number of Days to Update: 26

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 08/18/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 43

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SAN MATEO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 15

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Annually

Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 57

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List

Cupa facility list

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 43

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/03/2016
Date Data Arrived at EDR: 08/08/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 60

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 33

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/15/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 29

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 57

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 10/18/2016
Number of Days to Update: 19

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List

Cupa Facility list

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/27/2016
Date Data Arrived at EDR: 09/28/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 55

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/01/2016
Date Data Arrived at EDR: 07/05/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 44

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 08/05/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 12/02/2016
Number of Days to Update: 87

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 08/12/2016
Date Data Arrived at EDR: 08/16/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 49

Source: Division of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 06/28/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 11/14/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 02/27/2017
	Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 06/28/2016	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 08/01/2016	Telephone: 805-654-2813
Date Made Active in Reports: 10/07/2016	Last EDR Contact: 10/24/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/29/2016	Source: Environmental Health Division
Date Data Arrived at EDR: 09/14/2016	Telephone: 805-654-2813
Date Made Active in Reports: 10/11/2016	Last EDR Contact: 09/14/2016
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/26/2016
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 06/30/2016	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/24/2016	Telephone: 530-666-8646
Date Made Active in Reports: 10/11/2016	Last EDR Contact: 11/14/2016
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 08/03/2016	Source: Yuba County Environmental Health Department
Date Data Arrived at EDR: 08/05/2016	Telephone: 530-749-7523
Date Made Active in Reports: 10/05/2016	Last EDR Contact: 10/31/2016
Number of Days to Update: 61	Next Scheduled EDR Contact: 02/13/2017
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/12/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/03/2016
Date Made Active in Reports: 09/09/2016
Number of Days to Update: 37

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/02/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish & Game

Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

GATEWAY SOUTH BUILDING 4
1494 SOUTH WATERMAN AVENUE
SAN BERNARDINO, CA 92408

TARGET PROPERTY COORDINATES

Latitude (North):	34.07367 - 34° 4' 25.21"
Longitude (West):	117.282413 - 117° 16' 56.69"
Universal Transverse Mercator:	Zone 11
UTM X (Meters):	473941.7
UTM Y (Meters):	3770165.8
Elevation:	1004 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5620416 SAN BERNARDINO SOUTH, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

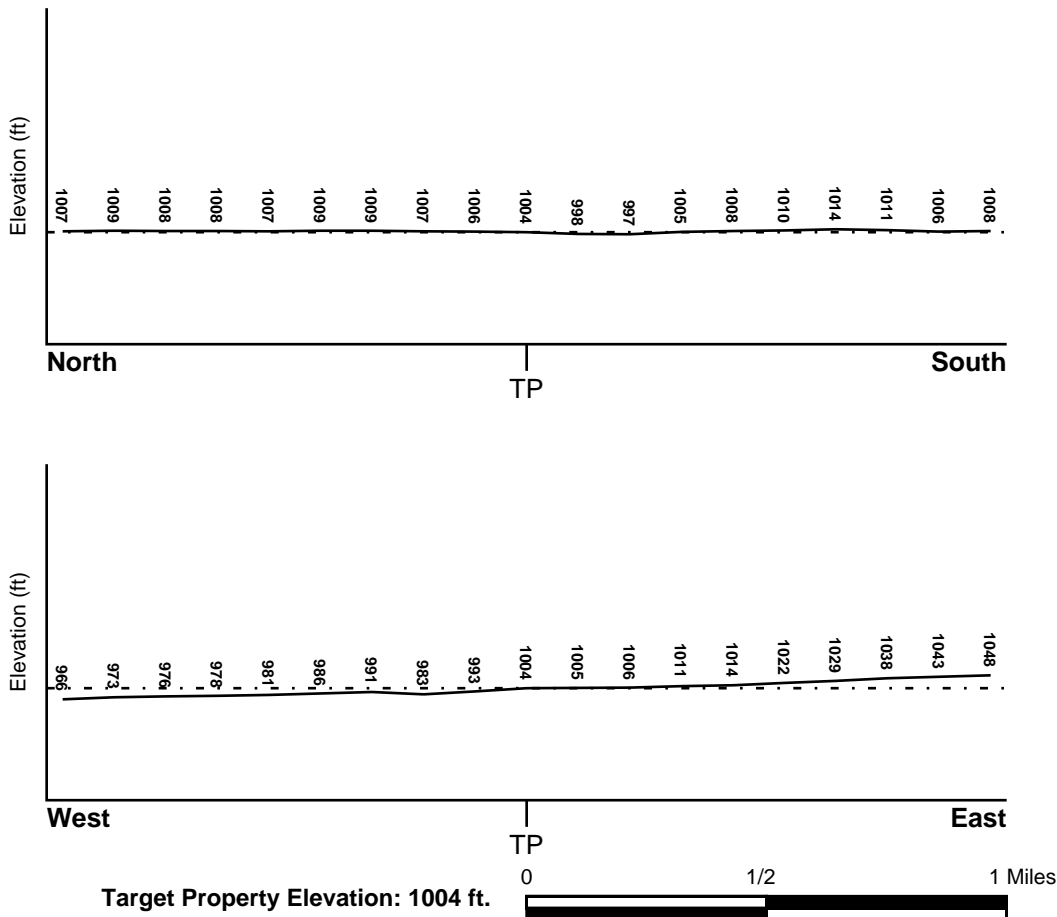
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06071C8683H	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06071C8684H	FEMA FIRM Flood data
06071C8691H	FEMA FIRM Flood data
06071C8692H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
87	1/2 - 1 Mile NNE	WSW
AB117	1/2 - 1 Mile South	Not Reported
AG129	1/2 - 1 Mile NW	W

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

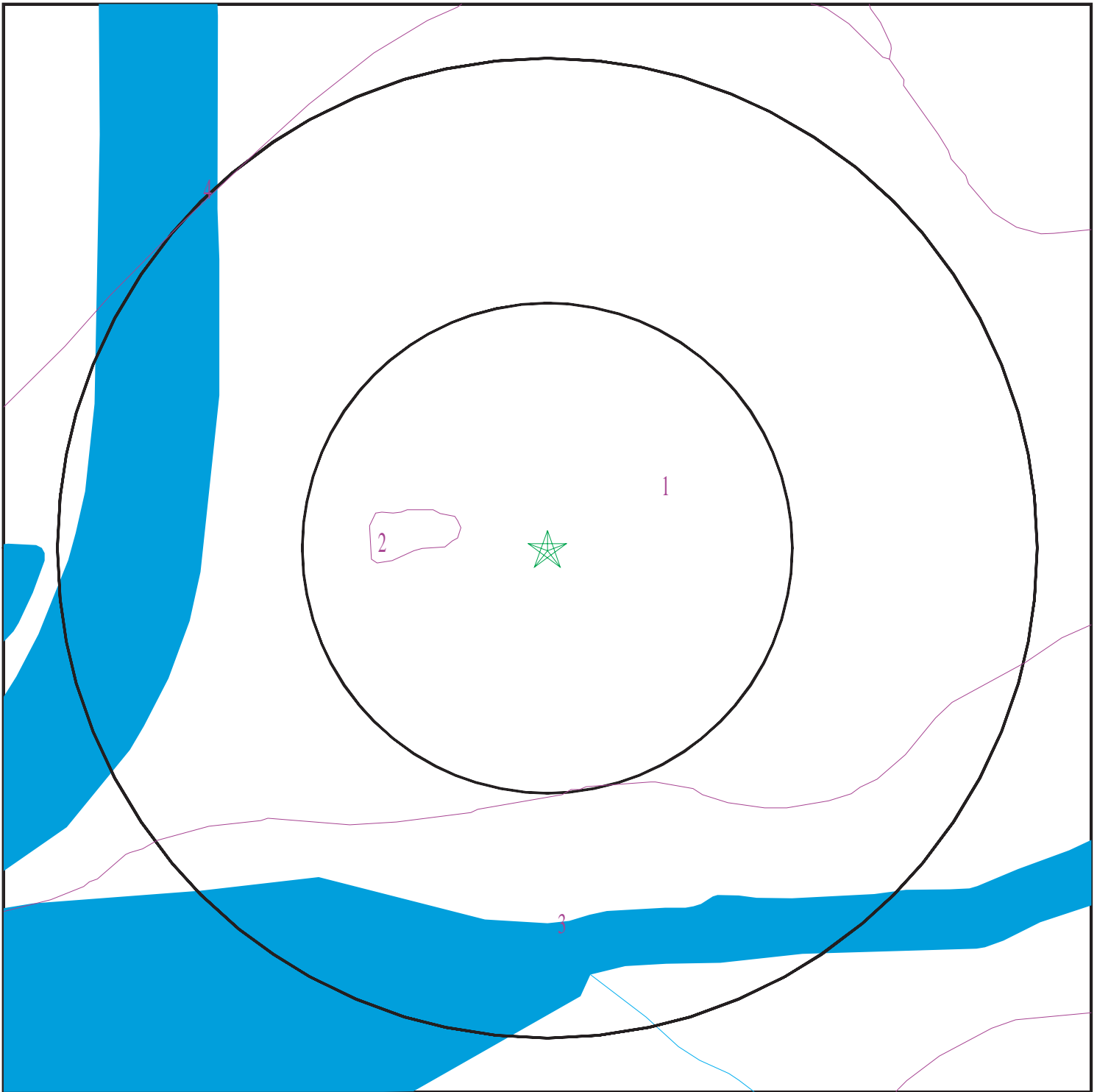
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

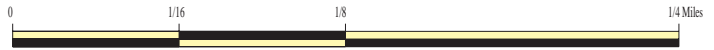
Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4796773.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Gateway South Building 4
ADDRESS: 1494 South Waterman Avenue
San Bernardino CA 92408
LAT/LONG: 34.07367 / 117.282413

CLIENT: Terracon
CONTACT: David Jamison
INQUIRY #: 4796773.2s
DATE: December 05, 2016 3:25 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	35 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1
2	35 inches	59 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: FLUVENTS

Soil Surface Texture: gravelly sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	9 inches	29 inches	stratified gravelly sand to gravelly loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
3	29 inches	59 inches	stratified gravelly sand to gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

Soil Map ID: 4

Soil Component Name: GRANGEVILLE

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 9 Min: 7.9

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	11 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS40000140619	0 - 1/8 Mile North
A2	USGS40000140618	0 - 1/8 Mile NNE
B3	USGS40000140615	0 - 1/8 Mile WNW
C4	USGS40000140570	1/8 - 1/4 Mile WSW
A5	USGS40000140635	1/8 - 1/4 Mile NNW
C6	USGS40000140564	1/8 - 1/4 Mile SW
D7	USGS40000140595	1/8 - 1/4 Mile East
C12	USGS40000140571	1/8 - 1/4 Mile WSW
E14	USGS40000140641	1/8 - 1/4 Mile NNE
D16	USGS40000140562	1/8 - 1/4 Mile ESE
D17	USGS40000140563	1/8 - 1/4 Mile ESE
C19	USGS40000140573	1/8 - 1/4 Mile WSW
C20	USGS40000140572	1/8 - 1/4 Mile WSW
C21	USGS40000140575	1/8 - 1/4 Mile WSW
C22	USGS40000140574	1/8 - 1/4 Mile WSW
F26	USGS40000140620	1/8 - 1/4 Mile WNW
F27	USGS40000140621	1/8 - 1/4 Mile WNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
D28	USGS40000140607	1/8 - 1/4 Mile East
F29	USGS40000140576	1/8 - 1/4 Mile WSW
F30	USGS40000140577	1/8 - 1/4 Mile WSW
C31	USGS40000140561	1/8 - 1/4 Mile WSW
G33	USGS40000140545	1/8 - 1/4 Mile SW
G35	USGS40000140546	1/8 - 1/4 Mile SW
G36	USGS40000140526	1/8 - 1/4 Mile SSW
H37	USGS40000140565	1/8 - 1/4 Mile WSW
G40	USGS40000140527	1/4 - 1/2 Mile SSW
G41	USGS40000140547	1/4 - 1/2 Mile SW
K43	USGS40000140676	1/4 - 1/2 Mile North
L44	USGS40000140660	1/4 - 1/2 Mile NNW
J46	USGS40000140659	1/4 - 1/2 Mile NE
L47	USGS40000140677	1/4 - 1/2 Mile NNW
48	USGS40000140569	1/4 - 1/2 Mile ESE
M49	USGS40000140644	1/4 - 1/2 Mile WNW
M50	USGS40000140643	1/4 - 1/2 Mile WNW
M51	USGS40000140642	1/4 - 1/2 Mile WNW
55	USGS40000140640	1/4 - 1/2 Mile ENE
N57	USGS40000140488	1/4 - 1/2 Mile SSW
N58	USGS40000140491	1/4 - 1/2 Mile SSW
N59	USGS40000140490	1/4 - 1/2 Mile SSW
N60	USGS40000140489	1/4 - 1/2 Mile SSW
68	USGS40000140626	1/4 - 1/2 Mile ENE
N69	USGS40000140492	1/4 - 1/2 Mile SSW
70	USGS40000140584	1/4 - 1/2 Mile East
O71	USGS40000140678	1/4 - 1/2 Mile NW
P72	USGS40000140651	1/4 - 1/2 Mile WNW
R78	USGS40000140650	1/4 - 1/2 Mile ENE
R80	USGS40000140639	1/4 - 1/2 Mile ENE
S82	USGS40000140462	1/2 - 1 Mile SW
T83	USGS40000140520	1/2 - 1 Mile WSW
84	USGS40000140704	1/2 - 1 Mile NE
T86	USGS40000140505	1/2 - 1 Mile WSW
U89	USGS40000140475	1/2 - 1 Mile SW
90	USGS40000140667	1/2 - 1 Mile ENE
91	USGS40000140649	1/2 - 1 Mile ENE
T92	USGS40000140515	1/2 - 1 Mile WSW
T93	USGS40000140506	1/2 - 1 Mile WSW
U94	USGS40000140467	1/2 - 1 Mile SW
96	USGS40000140746	1/2 - 1 Mile North
U97	USGS40000140463	1/2 - 1 Mile SW
100	USGS40000140430	1/2 - 1 Mile SSE
V102	USGS40000140742	1/2 - 1 Mile NNW
W105	USGS40000140702	1/2 - 1 Mile ENE
W106	USGS40000140703	1/2 - 1 Mile ENE
X107	USGS40000140694	1/2 - 1 Mile ENE
Y108	USGS40000140521	1/2 - 1 Mile WSW
W109	USGS40000140707	1/2 - 1 Mile ENE
Z110	USGS40000140578	1/2 - 1 Mile West
AA112	USGS40000140493	1/2 - 1 Mile WSW
AB114	USGS40000140412	1/2 - 1 Mile South

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
Y115	USGS40000140496	1/2 - 1 Mile WSW
AA118	USGS40000140485	1/2 - 1 Mile WSW
AC120	USGS40000140408	1/2 - 1 Mile South
AD123	USGS40000140416	1/2 - 1 Mile SSW
AE124	USGS40000140661	1/2 - 1 Mile WNW
AD126	USGS40000140413	1/2 - 1 Mile SSW
AB127	USGS40000140394	1/2 - 1 Mile South
AF128	USGS40000140452	1/2 - 1 Mile SW
130	USGS40000140419	1/2 - 1 Mile SSW
131	USGS40000140783	1/2 - 1 Mile North
AC132	USGS40000140393	1/2 - 1 Mile SSE
AG133	USGS40000140721	1/2 - 1 Mile WNW
AE134	USGS40000140682	1/2 - 1 Mile WNW
AE135	USGS40000140680	1/2 - 1 Mile WNW
AE136	USGS40000140679	1/2 - 1 Mile WNW
AE137	USGS40000140681	1/2 - 1 Mile WNW
AE138	USGS40000140683	1/2 - 1 Mile WNW
AH139	USGS40000140392	1/2 - 1 Mile SSE
AH140	USGS40000140391	1/2 - 1 Mile SSE
AD141	USGS40000140403	1/2 - 1 Mile SSW
A1142	USGS40000140373	1/2 - 1 Mile South
143	USGS40000140435	1/2 - 1 Mile SW
AH144	USGS40000140383	1/2 - 1 Mile SSE
AH145	USGS40000140382	1/2 - 1 Mile SSE
AJ147	USGS40000140715	1/2 - 1 Mile WNW
AH148	USGS40000140366	1/2 - 1 Mile SSE
AH154	USGS40000140365	1/2 - 1 Mile SSE
AL156	USGS40000140629	1/2 - 1 Mile West
AH157	USGS40000140362	1/2 - 1 Mile SSE
A1158	USGS40000140356	1/2 - 1 Mile South
159	USGS40000140741	1/2 - 1 Mile NE
161	USGS40000140374	1/2 - 1 Mile SSW
AM162	USGS40000140395	1/2 - 1 Mile SSW
AN163	USGS40000140355	1/2 - 1 Mile SSE
AO164	USGS40000140738	1/2 - 1 Mile NW
AM166	USGS40000140396	1/2 - 1 Mile SSW
AP167	USGS40000140544	1/2 - 1 Mile ESE
AQ168	USGS40000140345	1/2 - 1 Mile SSW
AR169	USGS40000140426	1/2 - 1 Mile SW
AS170	USGS40000140468	1/2 - 1 Mile WSW
AU173	USGS40000140802	1/2 - 1 Mile NNE
AU174	USGS40000140801	1/2 - 1 Mile NNE
AU175	USGS40000140803	1/2 - 1 Mile NNE
AU176	USGS40000140806	1/2 - 1 Mile NNE
AU177	USGS40000140805	1/2 - 1 Mile NNE
AU178	USGS40000140804	1/2 - 1 Mile NNE
AR179	USGS40000140427	1/2 - 1 Mile SW
AV180	USGS40000140566	1/2 - 1 Mile West
AS181	USGS40000140486	1/2 - 1 Mile WSW
AT192	USGS40000140791	1/2 - 1 Mile NNE
193	USGS40000140434	1/2 - 1 Mile SE
AQ195	USGS40000140333	1/2 - 1 Mile SSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AW200	USGS40000140554	1/2 - 1 Mile East
AY201	USGS40000140461	1/2 - 1 Mile ESE
AX202	USGS40000140810	1/2 - 1 Mile NNW
AX203	USGS40000140811	1/2 - 1 Mile NNW
AX204	USGS40000140812	1/2 - 1 Mile NNW
205	USGS40000140337	1/2 - 1 Mile SSW
AP206	USGS40000140514	1/2 - 1 Mile ESE
210	USGS40000140528	1/2 - 1 Mile WSW
211	USGS40000140790	1/2 - 1 Mile NE
AY212	USGS40000140449	1/2 - 1 Mile ESE
AX213	USGS40000140816	1/2 - 1 Mile NNW
214	USGS40000140754	1/2 - 1 Mile NW
215	USGS40000140331	1/2 - 1 Mile SSE
216	USGS40000140709	1/2 - 1 Mile WNW
BA219	USGS40000140321	1/2 - 1 Mile South
220	USGS40000140322	1/2 - 1 Mile South
BB221	USGS40000140579	1/2 - 1 Mile East
BA223	USGS40000140320	1/2 - 1 Mile South
BA224	USGS40000140319	1/2 - 1 Mile South
225	USGS40000140821	1/2 - 1 Mile NNE
AZ226	USGS40000140606	1/2 - 1 Mile East
227	USGS40000140318	1/2 - 1 Mile South
BA228	USGS40000140304	1/2 - 1 Mile South

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B8	923	1/8 - 1/4 Mile West
E9	CADW60000017122	1/8 - 1/4 Mile North
B10	921	1/8 - 1/4 Mile NW
B11	920	1/8 - 1/4 Mile NW
B13	CADW60000003248	1/8 - 1/4 Mile WNW
D15	928	1/8 - 1/4 Mile ESE
D18	927	1/8 - 1/4 Mile ENE
F23	925	1/8 - 1/4 Mile West
D24	926	1/8 - 1/4 Mile East
C25	CADW600000034367	1/8 - 1/4 Mile WSW
F32	CADW60000017131	1/8 - 1/4 Mile WSW
F34	CADW600000034368	1/8 - 1/4 Mile WSW
I38	CADW60000017125	1/8 - 1/4 Mile WNW
G39	CADW60000017132	1/8 - 1/4 Mile SW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

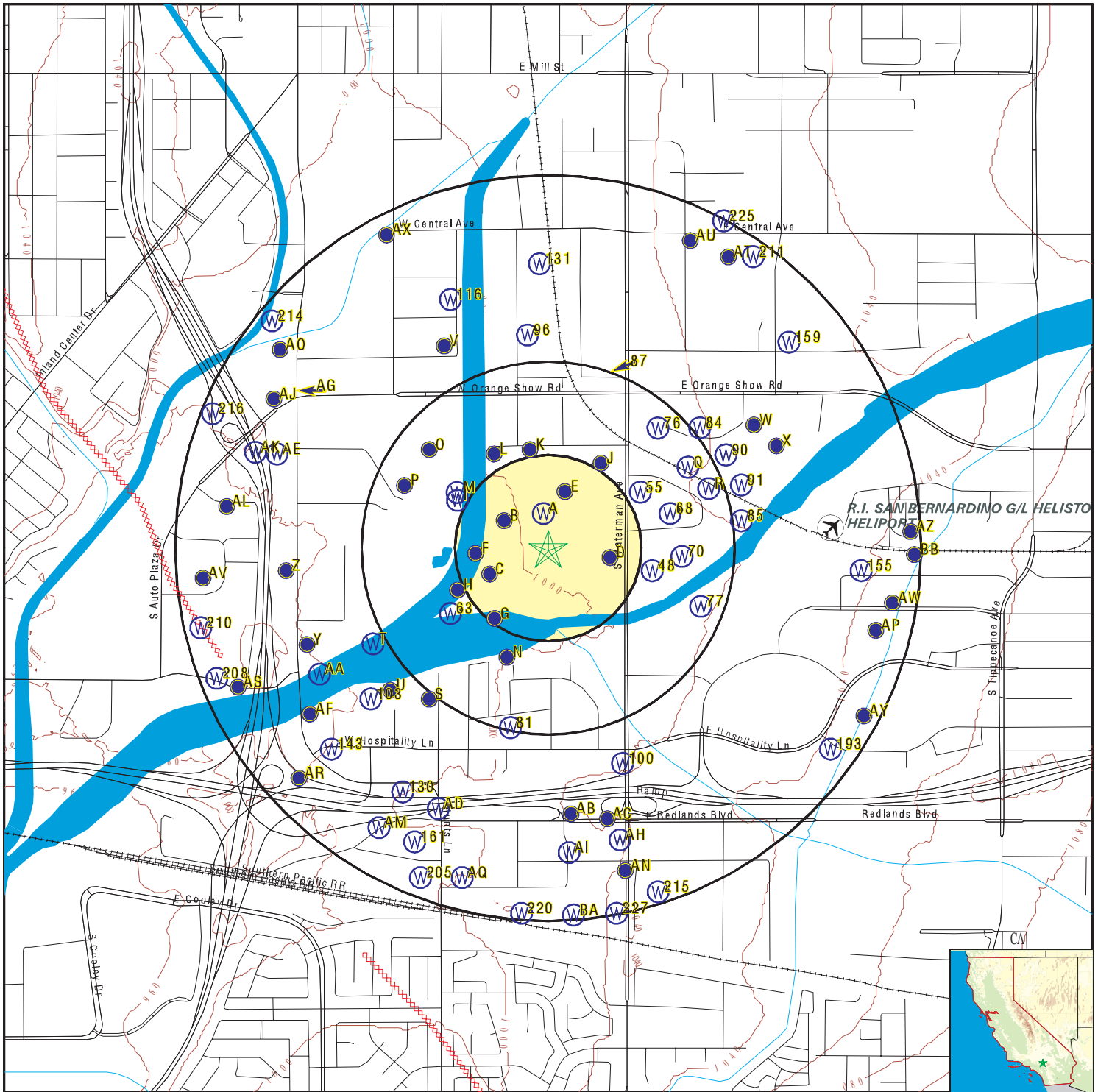
MAP ID	WELL ID	LOCATION FROM TP
J42	CADW60000003246	1/4 - 1/2 Mile NNE
K45	CADW60000017123	1/4 - 1/2 Mile NNW
I52	CADW60000001620	1/4 - 1/2 Mile WNW
I53	CADW60000015636	1/4 - 1/2 Mile WNW
I54	CADW60000015649	1/4 - 1/2 Mile WNW
H56	CADW60000000836	1/4 - 1/2 Mile WSW
L61	CADW60000017124	1/4 - 1/2 Mile NNW
L62	CADW60000003249	1/4 - 1/2 Mile NW
63	922	1/4 - 1/2 Mile SW
N64	CADW60000017135	1/4 - 1/2 Mile SSW
N65	CADW60000017134	1/4 - 1/2 Mile SSW
N66	CADW60000019285	1/4 - 1/2 Mile SSW
N67	CADW60000017136	1/4 - 1/2 Mile SSW
O73	CADW60000003247	1/4 - 1/2 Mile NW
Q74	910	1/4 - 1/2 Mile NE
Q75	933	1/4 - 1/2 Mile ENE
76	908	1/4 - 1/2 Mile NE
77	929	1/4 - 1/2 Mile ESE
P79	CADW60000017126	1/4 - 1/2 Mile WNW
81	909	1/4 - 1/2 Mile SSW
85	932	1/2 - 1 Mile East
S88	CADW60000019286	1/2 - 1 Mile SW
U95	CADW60000019289	1/2 - 1 Mile SW
U98	CADW60000019288	1/2 - 1 Mile SW
V99	913	1/2 - 1 Mile NNW
W101	CADW60000030853	1/2 - 1 Mile ENE
103	CADW60000019287	1/2 - 1 Mile SW
W104	CADW60000018159	1/2 - 1 Mile ENE
X111	911	1/2 - 1 Mile ENE
AB113	CADW60000019291	1/2 - 1 Mile South
116	912	1/2 - 1 Mile NNW
Y119	CADW60000017129	1/2 - 1 Mile WSW
Z121	CADW60000017130	1/2 - 1 Mile West
AC122	955	1/2 - 1 Mile SSE
AC125	956	1/2 - 1 Mile SSE
AF146	CADW60000019290	1/2 - 1 Mile SW
AK149	CADW60000003251	1/2 - 1 Mile WNW
AK150	CADW60000003250	1/2 - 1 Mile WNW
AK151	CADW60000017127	1/2 - 1 Mile WNW
AK152	CADW60000034366	1/2 - 1 Mile WNW
AK153	CADW60000017128	1/2 - 1 Mile WNW
155	924	1/2 - 1 Mile East
AJ160	CADW60000030856	1/2 - 1 Mile WNW
AP165	936	1/2 - 1 Mile ESE
AL171	CADW60000017113	1/2 - 1 Mile West
AT172	CADW60000032711	1/2 - 1 Mile NNE
AU182	CADW60000001614	1/2 - 1 Mile NNE
AU183	CADW60000001471	1/2 - 1 Mile NNE
AU184	CADW60000001470	1/2 - 1 Mile NNE
AU185	CADW60000015632	1/2 - 1 Mile NNE
AU186	CADW60000015631	1/2 - 1 Mile NNE
AU187	CADW60000001615	1/2 - 1 Mile NNE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

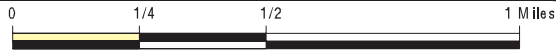
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
AN188	954	1/2 - 1 Mile SSE
AO189	CADW60000018162	1/2 - 1 Mile NW
AT190	CADW60000018157	1/2 - 1 Mile NNE
AW191	900	1/2 - 1 Mile East
AR194	CADW60000016085	1/2 - 1 Mile SW
AS196	CADW60000003074	1/2 - 1 Mile WSW
AX197	CADW60000001616	1/2 - 1 Mile NNW
AX198	CADW60000015633	1/2 - 1 Mile NNW
AX199	CADW60000016080	1/2 - 1 Mile NNW
AZ207	930	1/2 - 1 Mile East
208	CADW60000003073	1/2 - 1 Mile WSW
AV209	CADW60000017114	1/2 - 1 Mile West
AU217	CADW60000018156	1/2 - 1 Mile NNE
AY218	934	1/2 - 1 Mile ESE
BB222	935	1/2 - 1 Mile East

PHYSICAL SETTING SOURCE MAP - 4796773.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Gateway South Building 4
 ADDRESS: 1494 South Waterman Avenue
 San Bernardino CA 92408
 LAT/LONG: 34.07367 / 117.282413

CLIENT: Terracon
 CONTACT: David Jamison
 INQUIRY #: 4796773.2s
 DATE: December 05, 2016 3:25 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A1
North
0 - 1/8 Mile
Higher

FED USGS USGS40000140619

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340429117165401		
Monloc name:	001S004W22A00BS		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0747351
Longitude:	-117.2825425	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1001.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19530101	Welldepth:	228
Welldepth units:	ft	Wellholedepth:	238
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A2
NNE
0 - 1/8 Mile
Higher

FED USGS USGS40000140618

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340429117165201		
Monloc name:	001S004W22A00AS		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0747351
Longitude:	-117.2819869	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1003.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported
 Construction date: 19530101 Welldepth: 196
 Welldepth units: ft Wellholedepth: 203
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1953-04-16	26.70	

B3
WNW
0 - 1/8 Mile
Lower

FED USGS USGS40000140615

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340428117170001
 Monloc name: 001S004W22B004S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: 18070203 Drainagearea value: Not Reported
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported
 Contrib drainagearea units: Not Reported Latitude: 34.0744573
 Longitude: -117.2842092 Sourcemap scale: Not Reported
 Horiz Acc measure: 1 Horiz Acc measure units: seconds
 Horiz Collection method: Interpolated from map
 Horiz coord refsys: NAD83 Vert measure val: 998.00
 Vert measure units: feet Vertacc measure val: 10
 Vert accmeasure units: feet
 Vertcollection method: Interpolated from topographic map
 Vert coord refsys: NGVD29 Countrycode: US
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Not Reported
 Construction date: Not Reported Welldepth: 103
 Welldepth units: ft Wellholedepth: 165
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 111

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
-----			-----		
1963-11-14	96.50		1963-11-07	93.70	
1955-04-08	45.50		1955-01-07	10.90	
1954-05-03	59.40		1954-03-05	1.50	
1953-11-05	50.10				
1953-10-01	50.10				
Note: The site was being pumped.					
1953-09-03	51.30				
Note: The site was being pumped.					
1953-08-06	50.10				
Note: The site was being pumped.					
1953-05-01	13.40		1953-04-03	36.40	
1953-03-06	6.40		1953-02-06	46.40	
1953-01-09	47.40		1952-12-05	52.40	
1952-11-07	34.40				
1952-10-10	45.50				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1952-10-03	45.40				
1952-09-12	43.20				
Note: The site was being pumped.					
1952-09-05	43.40				
1952-08-15	43.20				
Note: The site was being pumped.					
1952-08-01	41.40				
1952-07-11	43.20				
Note: The site was being pumped.					
1952-07-04	41.40				
1952-06-05	36.30				
Note: The site was being pumped.					
1952-05-15	27.00				
Note: The site was being pumped.					
1952-05-02	57.40		1952-04-04	45.40	
1952-03-07	53.40		1952-02-08	45.40	
1952-01-04	52.40		1951-12-07	13.40	
1951-11-15	43.20		1951-11-02	24.40	
1951-10-11	45.50		1951-10-05	43.40	
1951-09-14	45.50		1951-09-11	45.40	
1951-08-17	39.80		1951-08-10	39.40	
1951-07-19	38.60		1951-07-06	36.40	
1951-06-21	36.30		1951-06-06	36.40	
1951-05-24	33.90		1951-05-04	3.40	
1951-04-27	31.60		1951-04-06	29.40	
1951-03-28	29.30				
Note: The site was being pumped.					
1951-03-09	56.40		1951-02-22	24.70	
1951-02-02	52.40		1951-01-05	50.40	
1950-12-01	36.40		1950-11-03	43.40	
1950-10-20	38.60		1950-10-06	37.40	
1950-09-29	40.90		1939-12-01	16.60	
1939-06-02	16.40		1939-03-03	19.90	
1937-12-03	3.90		1937-10-29	8.50	
1937-10-01	11.80		1937-09-03	15.40	
1937-07-30	11.40		1937-07-02	8.40	
1936-11-17	3.40		1936-10-17	5.80	
1936-09-17	20.30		1936-08-17	20.40	
1936-07-22	22.70		1936-06-20	20.60	
1936-05-19	16.20		1936-04-19	8.40	
1936-03-16	9.40		1935-12-17	3.10	
1935-11-18	6.30		1935-10-16	12.00	
1935-09-16	18.60		1935-07-18	19.20	
1935-05-08	4.70		1934-11-02	4.90	
1934-09-18	18.10		1934-08-17	19.80	
1934-07-19	17.30		1934-06-21	7.50	
1934-05-26	10.50		1934-04-19	4.40	
1934-01-18	6.90		1933-12-18	13.20	
1932-12-13	0.60		1932-01-04	13.30	
1931-11-05	7.30		1931-09-25	10.10	
1931-07-31	10.60		1931-06-12	2.30	
1931-04-09	0.80		1931-03-18	9.40	
1931-02-18	22.40		1931-01-19	19.40	
1916-03-21	28.30		1916-03-09	28.30	
1916-02-02	26.20		1916-01-13	30.60	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1915-12-27	28.20		1915-11-26	24.30	
1915-06-22	23.40		1915-05-25	27.50	
1915-04-27	27.10				

C4
WSW
1/8 - 1/4 Mile
Lower

FED USGS USGS40000140570

Org. Identifier:	USGS-CA			
Formal name:	USGS California Water Science Center			
Monloc Identifier:	USGS-340422117170101			
Monloc name:	001S004W22G016S			
Monloc type:	Well			
Monloc desc:	Not Reported			
Huc code:	18070203	Drainagearea value:	Not Reported	
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported	
Contrib drainagearea units:	Not Reported	Latitude:	34.0727907	
Longitude:	-117.284487	Sourcemap scale:	24000	
Horiz Acc measure:	1	Horiz Acc measure units:	seconds	
Horiz Collection method:	Interpolated from map			
Horiz coord refsys:	NAD83		Vert measure val:	Not Reported
Vert measure units:	Not Reported		Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported			
Vertcollection method:	Not Reported			
Vert coord refsys:	Not Reported		Countrycode:	US
Aquifername:	California Coastal Basin aquifers			
Formation type:	Not Reported			
Aquifer type:	Not Reported			
Construction date:	Not Reported		Welldepth:	188
Welldepth units:	ft		Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported			

Ground-water levels, Number of Measurements: 0

A5
NNW
1/8 - 1/4 Mile
Higher

FED USGS USGS40000140635

Org. Identifier:	USGS-CA			
Formal name:	USGS California Water Science Center			
Monloc Identifier:	USGS-340432117165701			
Monloc name:	001S004W22B003S			
Monloc type:	Well			
Monloc desc:	reported depth 200 ft.;sounded depth 295 ft 10/03			
Huc code:	18070203	Drainagearea value:	Not Reported	
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported	
Contrib drainagearea units:	Not Reported	Latitude:	34.0755684	
Longitude:	-117.2833758	Sourcemap scale:	24000	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1002.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	295
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 549

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
-----			-----		
2004-10-19	71.42		2004-04-20	56.89	
2003-10-20	61.33		2003-04-21	46.42	
2002-10-28	54.37		2002-04-08	44.88	
2001-10-23	40.78		2001-04-16	27.35	
2000-10-24	36.48		2000-04-12	36.50	
1999-10-18	42.64		1999-04-13	21.34	
1998-10-19	33.30		1998-04-07	17.49	
1997-10-27	48.62		1997-04-14	41.99	
1996-10-07	50.26		1996-04-22	37.29	
1995-10-23	45.92		1995-04-18	41.25	
1994-10-20	53.82		1994-04-18	31.86	
1993-10-18	48.50		1993-04-13	23.71	
1992-10-26	52.40		1992-06-17	41.89	
1991-11-29	72.98		1991-06-18	36.46	
1990-11-28	28.11		1990-06-28	34.34	
1989-11-27	21.24		1989-09-21	30.75	
1988-11-28	26.68		1988-06-29	34.87	
1988-04-12	29.71		1987-06-18	28.35	
1986-11-20	17.54		1986-06-20	24.07	
1985-12-17					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1985-11-08	29.22				
1984-03-09					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1983-05-10					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1983-03-22					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1982-03-30					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1982-02-02					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1972-07-24	86.06		1972-06-22	81.91	
1972-05-22	79.04		1972-04-24	80.12	
1972-03-22	77.55		1972-02-23	75.30	
1972-01-26	67.25		1971-12-30	73.86	
1971-11-18	79.09		1971-10-21	84.93	
1971-09-02	87.46		1971-06-15	74.70	
1971-06-01	75.00		1971-03-10	68.80	
1971-02-03	70.80		1970-12-11	83.90	
1970-10-06	88.50		1970-08-17	85.10	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-07-01	84.20		1970-05-15	80.00	
1970-03-23	74.50		1969-11-13	87.50	
1969-09-24	96.50		1969-04-24	90.00	
1969-01-09	102.20		1968-12-11	107.30	
1967-04-27	83.10		1966-12-13	95.40	
1966-09-27	102.60				
1966-09-16	101.90				
Note: The site was being pumped.					
1966-08-19	100.90				
Note: The site was being pumped.					
1966-07-15	98.40				
Note: The site was being pumped.					
1966-06-24	91.40		1966-05-20	88.00	
1966-04-15	85.50		1966-04-13	86.60	
1966-03-11	82.50		1966-02-18	81.80	
1966-02-10	78.10		1966-01-21	85.90	
1965-12-17	89.40		1965-11-19	92.60	
1965-11-18	91.10				
1965-10-22	97.80				
Note: The site was being pumped.					
1965-09-17	96.80				
Note: The site was being pumped.					
1965-08-13	105.30				
Note: The site was being pumped.					
1965-07-30	88.30				
1965-06-18	92.40				
Note: The site was being pumped.					
1965-05-14	88.80				
Note: The site was being pumped.					
1965-04-30	81.50		1965-04-15	82.00	
1965-04-07	82.00		1965-04-02	84.90	
1965-03-18	86.60		1965-02-26	87.40	
1965-01-22	88.10		1965-01-08	86.00	
1964-12-24	89.90		1964-12-04	88.00	
1964-11-24	88.00				
Note: A nearby site that taps the same aquifer was being pumped.					
1964-11-20	89.60				
1964-10-16	95.90				
Note: The site was being pumped.					
1964-09-25	90.40				
1964-08-14	94.80				
Note: The site was being pumped.					
1964-07-03	94.10				
Note: The site was being pumped.					
1964-06-26	91.10				
Note: The site was being pumped.					
1964-06-12	89.90				
Note: The site was being pumped.					
1964-06-05	86.90				
Note: The site was being pumped.					
1964-05-15	86.90				
Note: The site was being pumped.					
1964-05-01	86.90				
Note: The site was being pumped.					
1964-04-17	82.60				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1964-04-07	69.60		1964-04-03	75.10	
1964-03-13	77.30				
1964-03-06	85.30				
Note: The site was being pumped.					
1964-02-14	73.60		1964-02-07	73.90	
1964-01-16	85.10				
Note: The site was being pumped.					
1964-01-03	77.40		1963-12-12	75.90	
1963-12-06	75.30		1963-11-29	71.70	
1963-11-14	88.40				
Note: The site was being pumped.					
1963-11-07	79.40				
1963-10-17	89.10				
Note: The site was being pumped.					
1963-10-04	86.70				
Note: The site was being pumped.					
1963-09-13	91.70				
Note: The site was being pumped.					
1963-09-06	90.70				
Note: The site was being pumped.					
1963-08-16	90.30				
Note: The site was being pumped.					
1963-08-02	90.10				
Note: The site was being pumped.					
1963-07-19	88.90				
Note: The site was being pumped.					
1963-07-05	88.90				
Note: The site was being pumped.					
1963-06-28	87.40				
Note: The site was being pumped.					
1963-06-14	85.90				
Note: The site was being pumped.					
1963-05-31	84.80				
Note: The site was being pumped.					
1963-05-17	83.00				
Note: The site was being pumped.					
1963-05-03	80.10				
Note: The site was being pumped.					
1963-04-19	80.00				
Note: The site was being pumped.					
1963-04-05	76.30				
Note: The site was being pumped.					
1963-03-22	62.80		1963-03-21	61.60	
1963-03-08	79.60				
Note: The site was being pumped.					
1963-02-21	70.50				
1963-02-08	86.80				
Note: The site was being pumped.					
1963-01-25	85.00				
Note: The site was being pumped.					
1963-01-11	77.00				
1962-12-28	83.80				
Note: The site was being pumped.					
1962-12-14	87.70				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1962-11-30	87.00				
Note: The site was being pumped.					
1962-11-16	78.10				
1962-11-02	88.10				
Note: The site was being pumped.					
1962-10-19	78.20				
1962-10-05	88.10				
Note: The site was being pumped.					
1962-09-21	87.10				
Note: The site was being pumped.					
1962-09-07	86.60				
Note: The site was being pumped.					
1962-08-31	85.20				
Note: The site was being pumped.					
1962-08-17	84.10				
Note: The site was being pumped.					
1962-08-03	83.50				
Note: The site was being pumped.					
1962-07-20	82.50				
Note: The site was being pumped.					
1962-07-06	81.20				
Note: The site was being pumped.					
1962-06-01	76.90				
Note: The site was being pumped.					
1962-05-25	75.90				
Note: The site was being pumped.					
1962-05-04	74.00				
Note: The site was being pumped.					
1962-04-20	67.60				
Note: The site was being pumped.					
1962-04-06	43.90		1962-03-16	42.70	
1962-03-13	41.20		1962-03-02	46.20	
1962-02-16	50.10		1962-02-02	56.20	
1962-01-19	77.50				
Note: The site was being pumped.					
1962-01-05	74.30				
Note: The site was being pumped.					
1961-12-29	59.70		1961-12-15	63.20	
1961-11-24	85.10		1961-11-10	86.20	
1961-10-27	87.30		1961-10-13	87.10	
1961-09-29	87.00				
Note: The site was being pumped.					
1961-09-15	80.40				
Note: The site was being pumped.					
1961-08-25	73.40		1961-08-11	78.70	
1961-07-28	78.00		1961-07-14	77.30	
1961-06-16	75.50				
Note: The site was being pumped.					
1961-06-02	74.30				
Note: The site was being pumped.					
1961-05-19	74.10				
Note: The site was being pumped.					
1961-05-05	73.40				
Note: The site was being pumped.					
1961-04-14	71.20				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1961-04-07	71.10	
Note: The site was being pumped.		
1961-03-17	72.70	
Note: The site was being pumped.		
1961-03-02	68.10	
Note: The site was being pumped.		
1961-02-17	70.30	
Note: The site was being pumped.		
1961-02-10	69.40	
Note: The site was being pumped.		
1961-01-13	63.60	
Note: The site was being pumped.		
1961-01-07	69.20	
Note: The site was being pumped.		
1960-12-15	68.70	
Note: The site was being pumped.		
1960-12-02	54.90	
1960-11-18	68.90	
Note: The site was being pumped.		
1960-11-04	71.20	
Note: The site was being pumped.		
1960-10-21	71.50	
Note: The site was being pumped.		
1960-10-07	72.20	
Note: The site was being pumped.		
1960-09-16	70.90	
Note: The site was being pumped.		
1960-09-02	68.70	
Note: The site was being pumped.		
1960-08-19	70.00	
Note: The site was being pumped.		
1960-08-05	69.60	
Note: The site was being pumped.		
1960-07-15	68.30	
Note: The site was being pumped.		
1960-07-01	67.70	
Note: The site was being pumped.		
1960-06-10	63.50	
Note: The site was being pumped.		
1960-06-03	63.40	
Note: The site was being pumped.		
1960-05-27	62.50	
Note: The site was being pumped.		
1960-05-20	61.50	
Note: The site was being pumped.		
1960-05-13	61.70	
Note: The site was being pumped.		
1960-05-06	58.10	
Note: The site was being pumped.		
1960-04-29	57.50	
Note: The site was being pumped.		
1960-04-22	58.80	
Note: The site was being pumped.		
1960-04-15	58.90	
Note: The site was being pumped.		

Date	Feet below Surface	Feet to Sealevel
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1960-04-08	57.10				
Note: The site was being pumped.					
1960-04-01	53.80				
Note: The site was being pumped.					
1960-03-25	30.60		1960-03-18	25.50	
1960-03-15	19.00		1960-03-11	22.50	
1960-03-04	22.00		1960-02-26	24.20	
1960-02-19	25.00		1960-02-12	26.90	
1960-02-05	27.90				
1960-01-29	46.10				
Note: The site was being pumped.					
1960-01-22	33.70		1960-01-15	35.50	
1960-01-08	40.10				
1959-12-28	47.70				
Note: The site was being pumped.					
1959-12-18	68.40				
Note: The site was being pumped.					
1959-12-11	68.20				
Note: The site was being pumped.					
1959-12-04	69.40				
Note: The site was being pumped.					
1959-11-27	69.30				
Note: The site was being pumped.					
1959-11-20	68.70				
Note: The site was being pumped.					
1959-11-13	69.40				
Note: The site was being pumped.					
1959-11-06	69.60				
Note: The site was being pumped.					
1959-10-30	70.10				
Note: The site was being pumped.					
1959-10-23	70.30				
Note: The site was being pumped.					
1959-10-16	70.40				
Note: The site was being pumped.					
1959-10-09	68.70				
Note: The site was being pumped.					
1959-10-02	68.50				
Note: The site was being pumped.					
1959-09-25	68.20				
Note: The site was being pumped.					
1959-09-18	68.90				
Note: The site was being pumped.					
1959-09-11	70.10				
Note: The site was being pumped.					
1959-09-04	69.20				
Note: The site was being pumped.					
1959-08-28	68.60				
Note: The site was being pumped.					
1959-08-21	68.30				
Note: The site was being pumped.					
1959-08-14	68.70				
Note: The site was being pumped.					
1959-08-07	67.80				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-07-31	67.70				
Note: The site was being pumped.					
1959-07-24	66.90				
Note: The site was being pumped.					
1959-07-17	66.30				
Note: The site was being pumped.					
1959-07-10	65.90				
Note: The site was being pumped.					
1959-07-03	65.40				
Note: The site was being pumped.					
1959-06-26	64.90				
Note: The site was being pumped.					
1959-06-19	64.20				
Note: The site was being pumped.					
1959-06-12	63.10				
Note: The site was being pumped.					
1959-06-05	62.50				
Note: The site was being pumped.					
1959-05-29	62.60				
Note: The site was being pumped.					
1959-05-22	62.20				
Note: The site was being pumped.					
1959-05-15	61.30				
Note: The site was being pumped.					
1959-05-08	59.90				
Note: The site was being pumped.					
1959-05-01	59.40				
Note: The site was being pumped.					
1959-04-24	56.90				
Note: The site was being pumped.					
1959-04-17	57.20				
Note: The site was being pumped.					
1959-04-10	55.90				
Note: The site was being pumped.					
1959-04-03	52.60				
Note: The site was being pumped.					
1959-03-27	45.80				
Note: The site was being pumped.					
1959-03-20	23.50		1959-03-13	25.30	
1959-03-06	26.10		1959-02-27	29.40	
1959-02-20	34.00				
1959-02-13	56.50				
Note: The site was being pumped.					
1959-02-06	40.40		1959-01-30	38.90	
1959-01-23	38.50		1959-01-16	39.40	
1959-01-09	56.00				
Note: The site was being pumped.					
1959-01-02	39.80				
1958-12-26	60.80				
Note: The site was being pumped.					
1958-12-19	59.60				
Note: The site was being pumped.					
1958-12-12	60.30				
Note: The site was being pumped.					
1958-12-05	46.60				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-11-28	61.40				
	Note: The site was being pumped.				
1958-11-21	62.50				
	Note: The site was being pumped.				
1958-11-14	63.50				
	Note: The site was being pumped.				
1958-10-31	63.10				
	Note: The site was being pumped.				
1958-10-24	63.80				
	Note: The site was being pumped.				
1958-10-17	62.50				
	Note: The site was being pumped.				
1958-10-03	63.20				
	Note: The site was being pumped.				
1958-09-26	63.80				
	Note: The site was being pumped.				
1958-09-19	64.60				
	Note: The site was being pumped.				
1958-09-12	63.90				
	Note: The site was being pumped.				
1958-09-05	64.10				
	Note: The site was being pumped.				
1958-08-29	63.60				
	Note: The site was being pumped.				
1958-08-22	63.20				
	Note: The site was being pumped.				
1958-08-15	63.90				
	Note: The site was being pumped.				
1958-08-01	63.80				
	Note: The site was being pumped.				
1958-07-25	62.40				
	Note: The site was being pumped.				
1958-07-11	61.10				
	Note: The site was being pumped.				
1958-07-04	59.00				
	Note: The site was being pumped.				
1958-06-27	58.00				
	Note: The site was being pumped.				
1958-06-20	56.00				
	Note: The site was being pumped.				
1958-06-13	54.80				
	Note: The site was being pumped.				
1958-06-06	52.80				
	Note: The site was being pumped.				
1958-05-23	51.80				
	Note: The site was being pumped.				
1958-05-16	49.60				
	Note: The site was being pumped.				
1958-05-09	48.00				
	Note: The site was being pumped.				
1958-05-02	43.70				
	Note: The site was being pumped.				
1958-04-26	16.40		1958-04-19	10.10	
1958-04-11	8.90		1958-04-04	10.70	
1958-03-28	12.00		1958-03-21	12.90	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-03-14	8.80		1958-03-07	15.90	
1958-02-28	17.30		1958-02-21	19.30	
1958-02-14	21.90		1958-02-07	21.00	
1958-01-31	31.90				
1958-01-24	57.90				
Note: The site was being pumped.					
1958-01-10	31.90		1958-01-03	27.20	
1957-12-27	29.90		1957-12-20	34.50	
1957-12-06	61.30				
Note: The site was being pumped.					
1957-11-22	55.10				
Note: The site was being pumped.					
1957-11-15	50.30				
Note: The site was being pumped.					
1957-11-08	36.60		1957-11-01	49.20	
1957-10-25	56.90		1957-10-18	50.90	
1957-10-11	68.50				
Note: The site was being pumped.					
1957-09-27	68.60				
Note: The site was being pumped.					
1957-09-20	68.20				
Note: The site was being pumped.					
1957-09-13	68.10				
Note: The site was being pumped.					
1957-09-06	66.80				
Note: The site was being pumped.					
1957-08-30	67.40				
Note: The site was being pumped.					
1957-08-23	67.00				
Note: The site was being pumped.					
1957-08-16	66.30				
Note: The site was being pumped.					
1957-08-01	65.60				
Note: The site was being pumped.					
1957-07-26	64.70				
Note: The site was being pumped.					
1957-07-19	64.00				
Note: The site was being pumped.					
1957-07-12	63.80				
Note: The site was being pumped.					
1957-07-05	62.30				
Note: The site was being pumped.					
1957-06-28	61.10		1957-06-21	60.00	
1957-06-14	58.80		1957-06-07	59.40	
1957-05-31	55.60		1957-05-24	52.80	
1957-05-17	54.00		1957-05-10	56.30	
1957-05-03	52.30		1957-04-26	47.00	
1957-04-19	51.90				
Note: The site was being pumped.					
1957-04-12	50.90				
Note: The site was being pumped.					
1957-04-05	27.20		1957-03-29	22.40	
1957-03-22	14.30		1957-03-15	16.40	
1957-03-08	17.40		1957-03-01	18.90	
1957-02-25	18.00		1957-02-18	18.40	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1957-02-08	20.50	
1957-01-25	23.70	
1957-01-11	32.80	
1956-12-28	42.30	
1956-12-14	46.90	
1956-11-30	66.50	
Note: The site was being pumped.		
1956-11-23	65.80	
Note: The site was being pumped.		
1956-11-16	65.70	
Note: The site was being pumped.		
1956-11-09	67.00	
Note: The site was being pumped.		
1956-11-02	65.10	
Note: The site was being pumped.		
1956-10-26	66.00	
Note: The site was being pumped.		
1956-10-19	64.90	
Note: The site was being pumped.		
1956-10-12	65.10	
Note: The site was being pumped.		
1956-10-05	65.80	
Note: The site was being pumped.		
1956-09-28	67.30	
Note: The site was being pumped.		
1956-09-21	67.00	
Note: The site was being pumped.		
1956-09-14	66.40	
Note: The site was being pumped.		
1956-09-07	66.20	
Note: The site was being pumped.		
1956-08-31	63.70	
Note: The site was being pumped.		
1956-08-24	64.40	
Note: The site was being pumped.		
1956-08-17	64.20	
Note: The site was being pumped.		
1956-08-10	64.20	
Note: The site was being pumped.		
1956-08-03	63.70	
Note: The site was being pumped.		
1956-07-27	64.60	
Note: The site was being pumped.		
1956-07-20	64.20	
Note: The site was being pumped.		
1956-07-13	63.40	
Note: The site was being pumped.		
1956-07-06	61.40	
Note: The site was being pumped.		
1956-06-12	25.00	
1956-06-08	58.00	
Note: The site was being pumped.		
1956-05-04	51.30	
Note: The site was being pumped.		
1956-04-06	51.10	
Note: The site was being pumped.		

Date	Feet below Surface	Feet to Sealevel
1957-02-01	19.90	
1957-01-18	28.60	
1957-01-04	40.90	
1956-12-21	45.50	
1956-12-07	49.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1956-03-06	2.10				
Note: The site was being pumped.					
1956-03-02	6.20		1956-02-06	14.00	
1956-01-06	33.40		1955-12-09	33.70	
1955-11-11	60.10				
Note: The site was being pumped.					
1955-10-07	61.20				
Note: The site was being pumped.					
1955-09-09	62.10				
Note: The site was being pumped.					
1955-08-05	60.10				
Note: The site was being pumped.					
1955-07-08	56.60				
Note: The site was being pumped.					
1955-06-03	52.00				
Note: The site was being pumped.					
1955-05-06	31.00		1955-03-04	1.80	
1955-01-31	3.70		1955-01-07	6.80	
1954-12-03	8.00				
1954-11-05	49.40				
Note: The site was being pumped.					
1954-10-01	39.70				
Note: The site was being pumped.					
1954-09-03	53.00				
Note: The site was being pumped.					
1954-08-06	51.60				
Note: The site was being pumped.					
1954-07-23	48.70				
Note: The site was being pumped.					
1954-07-02	48.30				
Note: The site was being pumped.					
1954-06-04	44.40				
Note: The site was being pumped.					
1954-05-07	39.00				
Note: The site was being pumped.					
1954-04-23	33.50				
Note: The site was being pumped.					
1954-03-12	4.40		1954-02-05	0.90	
1954-01-01	20.10				
Note: The site was being pumped.					
1953-11-12	44.50				
Note: The site was being pumped.					
1952-03-20	17.60		1951-12-04	15.50	
1951-10-01	25.30		1951-05-10	11.90	
1951-03-10	1.30		1951-01-11	7.80	
1950-07-13	9.60		1950-04-26	3.90	
1950-02-21	21.60		1949-12-30	17.00	
1949-10-27	4.30		1949-09-12	7.80	
1949-07-15	6.90		1949-02-08	24.20	
1948-04-09	8.00		1948-01-07	6.80	
1947-09-15	2.30		1947-06-12	0.10	
1947-03-27	5.80		1946-12-13	23.90	
1946-05-29	3.80		1946-03-25	9.50	
1946-01-17	25.10		1945-10-19	5.50	
1945-06-08	8.30		1945-04-10	29.70	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1945-01-30	18.10		1944-11-22	26.70	
1944-10-04	1.30		1944-06-28	4.90	
1944-05-05	18.70		1944-03-13	33.20	
1944-01-06	29.70		1943-11-12	7.70	
1943-08-10	0.90		1943-06-09	8.30	
1943-04-29	19.30		1943-03-22	29.70	
1943-02-11	29.10		1942-12-23	8.90	
1942-08-12	0.40		1942-07-06	1.40	
1942-05-08	8.90		1942-04-06	12.40	
1942-03-04	19.30		1942-01-28	30.30	
1941-12-17	29.70		1941-11-18	27.90	
1941-07-18	6.60		1941-04-21	31.40	
1941-03-11	30.90		1941-01-30	29.10	
1940-12-20	25.10		1940-06-04	2.10	
1940-05-01	10.70		1940-03-29	11.80	
1940-03-01	30.30		1940-01-31	28.50	
1939-10-03	6.00		1939-08-03	1.10	
1939-07-10	0.30		1939-05-31	8.90	
1939-05-02	8.30		1939-03-30	20.50	
1939-02-21	29.10		1939-02-01	28.00	
1938-09-30	4.30		1937-05-05	2.90	
1937-04-09	25.10		1937-03-10	21.10	
1937-02-05	21.60		1937-01-07	17.00	
1936-12-09	1.10		1936-11-05	14.10	
1936-03-06	21.00		1936-02-07	15.30	
1936-01-06	11.80		1935-04-11	17.00	
1935-03-19	22.80		1935-02-13	22.20	
1934-11-07	2.10		1934-10-27	0.70	
1934-10-12	15.10		1934-10-04	16.10	
1934-09-20	15.00				
1934-09-15	16.50				
Note: The site was being pumped.					
1934-09-06	15.70				
Note: The site was being pumped.					
1934-09-01	17.30		1934-08-25	14.10	
1934-08-11	15.30		1934-08-04	15.40	
1934-07-28	15.90		1934-07-21	8.90	
1934-07-14	13.50				
Note: The site was being pumped.					
1934-07-07	10.80				
Note: The site was being pumped.					
1934-06-25	6.40		1934-06-19	5.70	
1934-06-11	6.40		1934-06-04	8.10	
1934-05-17	5.70		1934-05-07	4.10	
1934-04-09	3.70				
Note: The site was being pumped.					
1933-11-09	1.10		1933-10-06	3.80	
1933-09-11	4.90		1933-08-05	5.10	
1933-07-08	2.60				

C6
SW
1/8 - 1/4 Mile
Lower

FED USGS USGS40000140564

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340421117170101		
Monloc name:	001S004W22G001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.072513
Longitude:	-117.284487	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	989.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19310101	Welldepth:	236
Welldepth units:	ft	Wellholedepth:	350
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 393

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1961-06-30	125.30				
	Note: The site was being pumped.				
1961-05-19	109.80				
	Note: The site was being pumped.				
1961-04-28	105.70				
	Note: The site was being pumped.				
1961-03-23	83.80				
	Note: The site was being pumped.				
1961-02-22	84.20				
	Note: The site was being pumped.				
1961-01-27	79.90				
	Note: The site was being pumped.				
1960-12-30	94.30				
	Note: The site was being pumped.				
1960-11-25	59.70				
1960-10-28	109.90				
	Note: The site was being pumped.				
1960-09-30	110.20				
	Note: The site was being pumped.				
1960-08-26	109.10				
	Note: The site was being pumped.				
1960-07-29	107.00				
	Note: The site was being pumped.				
1960-06-24	89.30				
	Note: The site was being pumped.				
1960-05-27	109.20				
	Note: The site was being pumped.				
1960-04-29	92.20				
	Note: The site was being pumped.				
1960-03-18	20.70				
1960-02-26	78.80				
	Note: The site was being pumped.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1960-01-29	64.10				
Note: The site was being pumped.					
1959-12-28	100.70				
Note: The site was being pumped.					
1959-11-27	120.80				
Note: The site was being pumped.					
1959-10-30	91.90				
Note: The site was being pumped.					
1959-09-25	101.90				
Note: The site was being pumped.					
1959-08-28	87.90				
Note: The site was being pumped.					
1959-07-31	97.10				
Note: The site was being pumped.					
1959-06-26	69.40				
Note: The site was being pumped.					
1959-05-29	91.00				
Note: The site was being pumped.					
1959-04-24	63.80				
Note: The site was being pumped.					
1959-03-27	64.20				
Note: The site was being pumped.					
1959-02-27	58.00				
Note: The site was being pumped.					
1959-01-30	68.70				
Note: The site was being pumped.					
1958-12-19	51.80				
1958-12-12	56.70				
Note: The site was being pumped.					
1958-12-05	58.80				
Note: The site was being pumped.					
1958-11-28	48.20		1958-11-21	52.60	
1958-11-14	62.60				
Note: The site was being pumped.					
1958-11-07	63.40				
Note: The site was being pumped.					
1958-10-31	52.00		1958-10-24	52.60	
1958-10-17	52.00		1958-10-10	54.30	
1958-09-26	53.90		1958-09-19	86.90	
1958-09-12	86.00				
Note: The site was being pumped.					
1958-09-05	85.80				
Note: The site was being pumped.					
1958-09-03	53.10				
Note: The site was being pumped.					
1958-08-29	84.60				
Note: The site was being pumped.					
1958-08-22	83.30				
Note: The site was being pumped.					
1958-08-15	86.10				
Note: The site was being pumped.					
1958-08-08	85.90				
Note: The site was being pumped.					
1958-08-01	85.60				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-07-25	84.10				
Note: The site was being pumped.					
1958-07-11	81.10				
Note: The site was being pumped.					
1958-07-04	79.10				
Note: The site was being pumped.					
1958-06-27	79.10				
Note: The site was being pumped.					
1958-06-20	77.70				
Note: The site was being pumped.					
1958-06-13	75.80				
Note: The site was being pumped.					
1958-06-06	75.70				
Note: The site was being pumped.					
1958-05-30	74.10				
Note: The site was being pumped.					
1958-05-23	72.30				
Note: The site was being pumped.					
1958-05-16	70.40				
Note: The site was being pumped.					
1958-05-09	68.20				
Note: The site was being pumped.					
1958-05-02	65.20				
Note: The site was being pumped.					
1958-04-26	10.50		1958-04-19	4.10	
1958-04-11	3.10		1958-04-04	4.60	
1958-03-28	6.00		1958-03-21	6.80	
1958-03-14	8.40		1958-03-07	10.10	
1958-02-28	11.40		1958-02-21	13.50	
1958-02-14	15.80		1958-02-07	19.20	
1958-01-31	27.40				
1958-01-24	78.60				
Note: The site was being pumped.					
1958-01-17	65.70				
Note: The site was being pumped.					
1958-01-10	60.60				
Note: The site was being pumped.					
1958-01-03	21.90		1957-12-27	24.60	
1957-12-20	28.50				
1957-12-06	71.50				
Note: The site was being pumped.					
1957-11-22	38.20		1957-11-15	34.50	
1957-11-08	45.50		1957-11-01	57.10	
1957-10-25	49.00		1957-10-18	48.10	
1957-10-11	80.10				
Note: The site was being pumped.					
1957-09-27	79.70				
Note: The site was being pumped.					
1957-09-20	79.00				
Note: The site was being pumped.					
1957-09-13	78.90				
Note: The site was being pumped.					
1957-09-06	78.20				
Note: The site was being pumped.					
1957-08-30	77.60				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1957-08-23	76.20				
Note: The site was being pumped.					
1957-08-16	75.70				
Note: The site was being pumped.					
1957-08-09	76.80				
Note: The site was being pumped.					
1957-08-02	75.80				
Note: The site was being pumped.					
1957-07-26	73.70				
Note: The site was being pumped.					
1957-07-19	72.90				
Note: The site was being pumped.					
1957-07-12	76.50				
Note: The site was being pumped.					
1957-07-06	76.90				
Note: The site was being pumped.					
1957-06-28	75.10				
Note: The site was being pumped.					
1957-06-21	73.50				
Note: The site was being pumped.					
1957-06-14	72.20				
Note: The site was being pumped.					
1957-06-07	72.00				
Note: The site was being pumped.					
1957-05-31	69.90				
Note: The site was being pumped.					
1957-05-24	68.00				
Note: The site was being pumped.					
1957-05-17	70.10				
Note: The site was being pumped.					
1957-05-10	70.90				
Note: The site was being pumped.					
1957-05-03	69.60				
Note: The site was being pumped.					
1957-04-26	65.00				
Note: The site was being pumped.					
1957-04-19	68.80				
Note: The site was being pumped.					
1957-04-12	68.40				
Note: The site was being pumped.					
1957-04-05	23.80		1957-03-30	14.80	
1957-03-22	55.10				
Note: The site was being pumped.					
1957-03-08	56.80				
Note: The site was being pumped.					
1957-03-01	57.30				
Note: The site was being pumped.					
1957-02-25	57.20				
Note: The site was being pumped.					
1957-02-18	58.00				
Note: The site was being pumped.					
1957-02-08	59.80				
Note: The site was being pumped.					
1957-02-01	15.30				
1957-01-25	63.10				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1957-01-18	65.20				
	Note: The site was being pumped.				
1957-01-11	26.90		1957-01-01	37.30	
1956-12-28	38.20		1956-12-21	42.50	
1956-12-14	44.00		1956-12-07	45.00	
1956-11-30	85.60				
	Note: The site was being pumped.				
1956-11-23	86.10				
	Note: The site was being pumped.				
1956-11-16	88.30				
	Note: The site was being pumped.				
1956-11-09	87.70				
	Note: The site was being pumped.				
1956-11-02	86.90				
	Note: The site was being pumped.				
1956-10-26	87.30				
	Note: The site was being pumped.				
1956-10-19	86.30				
	Note: The site was being pumped.				
1956-10-12	85.90				
	Note: The site was being pumped.				
1956-10-05	85.10				
	Note: The site was being pumped.				
1956-09-28	86.30				
	Note: The site was being pumped.				
1956-09-21	85.60				
	Note: The site was being pumped.				
1956-09-14	86.50				
	Note: The site was being pumped.				
1956-09-07	86.50				
	Note: The site was being pumped.				
1956-08-31	85.10				
	Note: The site was being pumped.				
1956-08-24	85.20				
	Note: The site was being pumped.				
1956-08-17	86.00				
	Note: The site was being pumped.				
1956-08-10	85.40				
	Note: The site was being pumped.				
1956-08-03	84.20				
	Note: The site was being pumped.				
1956-07-27	82.60				
	Note: The site was being pumped.				
1956-07-20	82.70				
	Note: The site was being pumped.				
1956-07-13	81.90				
	Note: The site was being pumped.				
1956-07-06	81.10				
	Note: The site was being pumped.				
1956-06-08	79.60				
	Note: The site was being pumped.				
1956-05-04	76.20				
	Note: The site was being pumped.				
1956-04-06	77.50				
	Note: The site was being pumped.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1956-03-09	6.90		1956-02-06	10.40	
1956-01-06	78.80				
Note: The site was being pumped.					
1955-12-09	79.50				
Note: The site was being pumped.					
1955-11-11	84.90				
Note: The site was being pumped.					
1955-10-07	86.90				
Note: The site was being pumped.					
1955-09-09	87.00				
Note: The site was being pumped.					
1955-08-05	84.30				
Note: The site was being pumped.					
1955-07-15	83.20				
Note: The site was being pumped.					
1955-06-10	83.70				
Note: The site was being pumped.					
1955-05-13	78.20				
Note: The site was being pumped.					
1955-04-15	78.70				
Note: The site was being pumped.					
1955-03-11	3.20		1955-01-07	2.70	
1954-11-05	89.10		1954-10-01	88.40	
1954-09-03	88.70		1954-08-06	86.60	
1954-07-02	83.10		1954-06-04	79.70	
1954-05-07	75.30				
1954-04-30	84.80				
Note: The site was being pumped.					
1954-03-12	0.10		1954-01-08	17.10	
1953-11-06	87.10		1953-10-02	85.00	
1953-09-04	88.60		1953-08-07	86.90	
1953-07-03	85.40				
1953-06-05	80.20				
Note: The site was being pumped.					
1953-05-01	7.80				
1953-04-10	75.80				
Note: The site was being pumped.					
1953-03-06	0.90		1953-02-06	11.90	
1953-01-09	11.90		1952-12-05	5.00	
1952-11-21	1.10				
1952-11-07	89.20				
Note: The site was being pumped.					
1952-10-03	85.40				
Note: The site was being pumped.					
1952-09-05	83.60				
Note: The site was being pumped.					
1952-08-08	78.50				
Note: The site was being pumped.					
1952-07-04	79.70				
Note: The site was being pumped.					
1952-06-06	77.20				
Note: The site was being pumped.					
1952-05-02	1.50		1952-04-04	10.70	
1952-03-07	6.10		1952-02-08	10.70	
1952-01-04	5.00		1951-12-07	10.20	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1951-11-02	93.70				
Note: The site was being pumped.					
1951-10-05	93.60				
Note: The site was being pumped.					
1951-09-07	92.10				
Note: The site was being pumped.					
1951-08-03	91.00				
Note: The site was being pumped.					
1951-07-06	85.20				
Note: The site was being pumped.					
1951-06-01	79.50				
Note: The site was being pumped.					
1951-05-04	4.30				
1951-04-06	74.10				
Note: The site was being pumped.					
1951-03-16	70.80				
Note: The site was being pumped.					
1951-02-23	71.10				
Note: The site was being pumped.					
1951-01-05	5.00		1950-12-01	3.20	
1950-11-03	81.40				
Note: The site was being pumped.					
1950-10-06	94.10				
Note: The site was being pumped.					
1950-09-01	95.10				
Note: The site was being pumped.					
1950-08-04	92.50				
Note: The site was being pumped.					
1950-07-07	88.20				
1950-06-02	84.10				
Note: The site was being pumped.					
1950-05-05	79.80				
Note: The site was being pumped.					
1950-04-21	80.00				
Note: The site was being pumped.					
1949-12-02	1.20				
1949-11-03	95.60				
Note: The site was being pumped.					
1949-10-07	92.80				
Note: The site was being pumped.					
1949-09-02	88.60				
Note: The site was being pumped.					
1949-08-05	81.90				
Note: The site was being pumped.					
1949-07-29	81.20				
Note: The site was being pumped.					
1949-07-01	79.30				
Note: The site was being pumped.					
1949-06-03	71.00		1949-05-13	77.80	
1949-04-09	63.40		1948-12-17	0.20	
1948-11-05	1.10		1948-10-01	65.70	
1948-09-24	71.00				
1948-07-17	73.00				
Note: The site was being pumped.					
1947-11-07	0.20		1947-10-03	3.70	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1947-09-05	70.80		1947-08-08	71.70	
1947-07-11	65.80				
1947-06-13	64.10				
Note: The site was being pumped.					
1946-10-04	126.10				
Note: The site was being pumped.					
1946-09-13	122.00				
Note: The site was being pumped.					
1946-08-23	119.80				
Note: The site was being pumped.					
1946-07-26	101.30				
1946-07-12	104.80				
Note: The site was being pumped.					
1946-06-14	103.20				
Note: The site was being pumped.					
1945-10-12	0.70				
1945-09-14	110.90				
Note: The site was being pumped.					
1945-08-24	0.40				
1945-08-10	108.50				
Note: The site was being pumped.					
1945-07-20	102.60				
Note: The site was being pumped.					
1945-07-06	0.10		1945-04-27	2.70	
1945-04-06	16.00		1945-03-30	15.40	
1945-02-23	14.80		1944-12-08	13.00	
1944-11-17	10.70		1944-09-15	0.80	
1944-09-08	95.80				
Note: The site was being pumped.					
1944-08-18	0.90		1944-07-21	1.40	
1944-07-08	0.20		1944-04-21	1.50	
1944-03-03	14.20		1944-02-04	13.60	
1944-01-07	13.00		1943-11-26	1.50	
1943-11-16	0.90		1943-11-05	1.50	
1943-10-22	0.30		1943-09-11	0.60	
1943-08-20	0.10		1943-08-13	0.50	
1943-08-06	0.70		1943-07-23	0.60	
1943-07-02	0.60		1943-06-18	0.10	
1943-06-04	1.50		1943-05-14	2.70	
1943-04-30	7.30		1943-04-24	10.70	
1943-04-09	13.60		1943-03-23	14.20	
1943-03-03	13.00		1943-02-13	11.90	
1943-01-29	10.20		1942-10-10	0.30	
1942-08-28	1.00		1942-08-07	1.40	
1942-07-31	1.40		1942-07-17	1.20	
1942-07-10	92.60				
Note: The site was being pumped.					
1942-06-05	0.30		1942-05-15	1.50	
1942-04-30	5.00		1942-04-24	6.70	
1942-04-17	9.60		1942-04-10	1.50	
1942-04-03	1.50		1942-03-27	7.30	
1942-03-20	10.70		1942-03-13	5.00	
1942-03-06	3.80		1942-02-27	6.10	
1942-02-13	6.10		1942-02-06	14.20	
1942-01-30	17.00		1942-01-02	17.70	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1941-12-26	17.00		1941-12-12	13.10	
1941-12-05	6.70		1941-11-28	4.40	
1941-11-14	14.20		1941-10-30	13.10	
1941-10-17	2.70		1941-09-19	0.30	
1941-06-27	6.10		1941-05-30	8.40	
1941-05-16	6.10		1941-05-09	15.90	
1941-04-25	17.70		1941-04-11	17.70	
1941-03-28	17.70		1941-03-14	17.70	
1941-02-28	17.00		1941-02-14	15.90	
1941-01-31	17.00		1941-01-17	14.80	
1941-01-03	14.80		1940-12-27	10.70	
1940-12-06	5.00		1940-09-20	5.60	
1940-08-02	88.40				
Note: The site was being pumped.					
1940-07-05	87.50				
Note: The site was being pumped.					
1940-04-05	17.70		1940-03-01	20.00	
1940-02-09	18.90		1940-01-05	14.20	
1939-12-22	6.10		1939-11-24	4.40	
1939-10-27	3.80		1939-09-29	2.60	
1939-08-25	0.30		1939-07-28	0.30	
1939-06-30	0.20		1939-05-26	5.00	
1939-04-28	6.10		1939-03-31	13.20	
1939-02-24	20.00		1939-01-28	18.30	
1938-12-30	15.30		1938-12-02	6.10	
1938-11-11	3.80		1938-10-07	1.50	
1938-09-09	0.40		1938-08-12	0.40	
1938-07-01	3.80		1938-06-04	10.70	
1938-05-13	3.80		1938-02-04	17.60	
1938-01-07	15.30		1937-12-31	20.00	
1937-12-03	1.00		1937-11-05	3.10	
1937-10-01	102.40				
1937-09-03	97.90				
Note: The site was being pumped.					
1937-08-30	93.00				
Note: The site was being pumped.					
1937-08-06	93.90				
Note: The site was being pumped.					
1937-07-16	102.40				
Note: The site was being pumped.					
1937-05-07	5.40		1937-04-30	5.40	
1937-04-02	19.50		1937-03-26	19.50	
1937-03-05	17.70		1937-02-24	17.70	
1937-02-05	16.50		1937-01-29	16.50	
1936-10-09	11.10		1936-07-31	79.00	
1936-07-17	16.70		1936-07-02	77.70	
1936-03-27	93.40				
Note: The site was being pumped.					
1935-12-21	0.60		1935-11-02	5.70	
1935-10-05	7.10				

**D7
East
1/8 - 1/4 Mile
Higher**

FED USGS USGS40000140595

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340425117164401		
Monloc name:	001S004W22H002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0736241
Longitude:	-117.2797646	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1002.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19480101	Welldepth:	1106
Welldepth units:	ft	Wellholedepth:	1106
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 296

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
-----			-----		
1991-04-29					
Note: The site was being pumped.					
1990-10-29					
Note: The site was being pumped.					
1990-04-17					
Note: The site was being pumped.					
1989-10-24					
Note: The site was being pumped.					
1989-04-25					
Note: The site was being pumped.					
1988-10-13					
Note: The site was being pumped.					
1970-03-31	50.50		1969-11-28	42.10	
1969-01-03	144.90		1968-05-05	61.90	
1967-11-30	65.90		1967-05-05	72.00	
1967-04-01	67.00		1967-03-10	72.00	
1967-02-03	54.00		1967-01-06	59.00	
1966-12-16	68.00		1966-11-11	83.00	
1966-10-14	86.00				
1966-09-16	160.00				
Note: The site was being pumped.					
1966-08-20	161.00				
Note: The site was being pumped.					
1966-07-22	160.00				
Note: The site was being pumped.					
1966-06-17	156.00				
Note: The site was being pumped.					
1966-05-26	82.00				
1966-04-08	149.00				
Note: The site was being pumped.					
1966-03-11	64.00		1966-02-11	52.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1966-01-14	56.00		1965-12-17	59.00	
1965-11-19	69.00		1965-10-15	84.10	
1965-09-24	81.30		1965-06-11	79.30	
1965-05-14	47.90		1965-04-09	47.60	
1965-03-19	57.30		1965-02-12	61.60	
1965-01-08	52.90		1964-12-18	69.30	
1964-12-04	58.90		1964-11-12	90.50	
1964-10-02	69.60				
1964-09-11	150.30				
Note: The site was being pumped.					
1964-08-14	149.90				
Note: The site was being pumped.					
1964-07-10	147.00				
Note: The site was being pumped.					
1964-06-19	143.00				
Note: The site was being pumped.					
1964-05-15	135.90				
Note: The site was being pumped.					
1964-05-01	137.60				
Note: The site was being pumped.					
1964-04-10	132.60				
Note: The site was being pumped.					
1964-03-13	139.60				
Note: The site was being pumped.					
1964-02-14	136.00				
Note: The site was being pumped.					
1964-01-10	140.60				
Note: The site was being pumped.					
1963-12-13	138.30				
Note: The site was being pumped.					
1963-11-29	137.30				
Note: The site was being pumped.					
1963-11-15	51.60				
1963-11-01	137.30				
Note: The site was being pumped.					
1963-10-18	59.00		1963-10-04	52.60	
1963-09-13	140.30				
Note: The site was being pumped.					
1963-08-30	142.60				
Note: The site was being pumped.					
1963-08-16	138.00				
Note: The site was being pumped.					
1963-08-01	137.90				
Note: The site was being pumped.					
1963-07-12	138.00				
Note: The site was being pumped.					
1963-06-21	132.80				
Note: The site was being pumped.					
1963-06-07	134.80				
Note: The site was being pumped.					
1963-05-24	135.40				
Note: The site was being pumped.					
1963-05-10	132.80				
Note: The site was being pumped.					
1963-04-26	36.70				
1963-03-29	131.80				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1963-03-15	129.80				
Note: The site was being pumped.					
1963-03-01	130.80				
Note: The site was being pumped.					
1963-02-08	130.80				
Note: The site was being pumped.					
1963-01-26	117.40				
Note: The site was being pumped.					
1962-12-21	118.80				
Note: The site was being pumped.					
1962-12-08	132.40				
Note: The site was being pumped.					
1962-11-23	130.80				
Note: The site was being pumped.					
1962-11-09	132.80				
Note: The site was being pumped.					
1962-10-26	136.70				
Note: The site was being pumped.					
1962-10-12	132.80				
Note: The site was being pumped.					
1962-09-28	49.80				
1962-09-14	128.80				
Note: The site was being pumped.					
1962-08-31	129.80				
Note: The site was being pumped.					
1962-08-17	130.10				
Note: The site was being pumped.					
1962-08-03	129.70				
Note: The site was being pumped.					
1962-07-20	130.80				
Note: The site was being pumped.					
1962-06-29	138.80				
Note: The site was being pumped.					
1962-06-15	129.80				
Note: The site was being pumped.					
1962-06-01	123.80				
Note: The site was being pumped.					
1962-05-18	125.80				
Note: The site was being pumped.					
1962-05-04	129.30				
Note: The site was being pumped.					
1962-04-13	138.80				
Note: The site was being pumped.					
1962-03-30	126.80				
Note: The site was being pumped.					
1962-03-16	126.80				
Note: The site was being pumped.					
1962-03-02	10.20		1962-02-22	10.80	
1962-02-02	126.80				
Note: The site was being pumped.					
1962-01-05	116.80				
Note: The site was being pumped.					
1961-12-08	19.30				
1961-11-17	125.80				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1961-11-03	127.80				
Note: The site was being pumped.					
1961-10-13	133.30				
Note: The site was being pumped.					
1961-09-29	131.80				
Note: The site was being pumped.					
1961-09-15	136.80				
Note: The site was being pumped.					
1961-09-01	136.30				
Note: The site was being pumped.					
1961-08-18	134.30				
Note: The site was being pumped.					
1961-08-04	133.80				
Note: The site was being pumped.					
1961-07-14	134.60				
Note: The site was being pumped.					
1961-06-30	140.50				
Note: The site was being pumped.					
1961-06-16	125.80				
Note: The site was being pumped.					
1961-06-02	126.40				
Note: The site was being pumped.					
1961-05-12	121.80				
Note: The site was being pumped.					
1961-05-05	22.80				
1961-04-14	121.80				
Note: The site was being pumped.					
1961-03-31	13.40		1961-03-16	17.80	
1961-03-03	121.80				
Note: The site was being pumped.					
1961-02-17	118.80				
Note: The site was being pumped.					
1961-02-02	118.80				
Note: The site was being pumped.					
1961-01-20	122.40				
Note: The site was being pumped.					
1961-01-06	123.80				
Note: The site was being pumped.					
1960-12-23	124.80				
Note: The site was being pumped.					
1960-11-25	122.80				
Note: The site was being pumped.					
1960-11-11	8.40				
1960-10-28	126.80				
Note: The site was being pumped.					
1960-10-14	123.40				
Note: The site was being pumped.					
1960-09-30	30.80				
1960-09-14	121.70				
Note: The site was being pumped.					
1960-09-02	127.10				
Note: The site was being pumped.					
1960-08-19	128.10				
Note: The site was being pumped.					
1960-08-05	128.70				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1960-07-15	127.10	
Note: The site was being pumped.		
1960-07-01	123.80	
Note: The site was being pumped.		
1960-06-24	120.10	
Note: The site was being pumped.		
1960-06-10	122.60	
Note: The site was being pumped.		
1960-05-27	124.30	
Note: The site was being pumped.		
1960-05-20	122.80	
Note: The site was being pumped.		
1960-04-29	123.10	
Note: The site was being pumped.		
1960-04-15	123.30	
Note: The site was being pumped.		
1960-04-01	125.80	
Note: The site was being pumped.		
1960-03-18	115.30	
Note: The site was being pumped.		
1959-12-18	127.30	
Note: The site was being pumped.		
1959-12-04	199.10	
Note: The site was being pumped.		
1959-11-13	126.80	
Note: The site was being pumped.		
1959-11-02	120.80	
Note: The site was being pumped.		
1959-10-19	127.30	
Note: The site was being pumped.		
1959-10-02	120.80	
Note: The site was being pumped.		
1959-09-25	20.30	
1959-09-11	119.80	
Note: The site was being pumped.		
1959-09-04	122.80	
Note: The site was being pumped.		
1959-08-28	123.30	
Note: The site was being pumped.		
1959-08-21	125.80	
Note: The site was being pumped.		
1959-08-14	126.10	
Note: The site was being pumped.		
1959-08-07	125.30	
Note: The site was being pumped.		
1959-07-31	125.80	
Note: The site was being pumped.		
1959-07-24	126.30	
Note: The site was being pumped.		
1959-07-17	126.30	
Note: The site was being pumped.		
1959-07-03	125.10	
Note: The site was being pumped.		
1959-06-26	122.80	
Note: The site was being pumped.		

Date	Feet below Surface	Feet to Sealevel
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1959-06-19	125.80	
Note: The site was being pumped.		
1959-06-12	122.10	
Note: The site was being pumped.		
1959-06-05	121.10	
Note: The site was being pumped.		
1959-05-22	116.10	
Note: The site was being pumped.		
1959-05-15	115.70	
Note: The site was being pumped.		
1959-05-01	117.10	
Note: The site was being pumped.		
1959-04-24	116.80	
Note: The site was being pumped.		
1959-04-17	118.70	
Note: The site was being pumped.		
1959-04-10	109.70	
Note: The site was being pumped.		
1959-03-27	112.40	
Note: The site was being pumped.		
1959-03-13	97.70	
Note: The site was being pumped.		
1959-02-20	100.40	
Note: The site was being pumped.		
1959-02-06	112.70	
Note: The site was being pumped.		
1959-01-23	109.80	
Note: The site was being pumped.		
1959-01-02	110.80	
Note: The site was being pumped.		
1958-12-19	103.70	
Note: The site was being pumped.		
1958-12-05	117.10	
Note: The site was being pumped.		
1958-11-21	115.40	
Note: The site was being pumped.		
1958-11-07	118.70	
Note: The site was being pumped.		
1958-10-24	5.10	
1958-10-17	114.40	
Note: The site was being pumped.		
1958-10-10	121.80	
Note: The site was being pumped.		
1958-10-03	119.40	
Note: The site was being pumped.		
1958-09-26	118.80	
Note: The site was being pumped.		
1958-09-19	122.10	
Note: The site was being pumped.		
1958-09-13	118.40	
Note: The site was being pumped.		
1958-09-05	124.80	
Note: The site was being pumped.		
1958-08-29	125.80	
Note: The site was being pumped.		

Date	Feet below Surface	Feet to Sealevel
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-08-22	122.80				
Note: The site was being pumped.					
1958-08-16	16.40				
1958-08-08	120.80				
Note: The site was being pumped.					
1958-08-01	119.80				
Note: The site was being pumped.					
1958-07-25	121.70				
Note: The site was being pumped.					
1958-07-18	120.80				
Note: The site was being pumped.					
1958-07-11	117.80				
Note: The site was being pumped.					
1958-07-04	119.70				
Note: The site was being pumped.					
1958-06-27	117.80				
Note: The site was being pumped.					
1958-06-20	117.80				
Note: The site was being pumped.					
1958-06-13	118.30				
Note: The site was being pumped.					
1958-06-06	117.80				
Note: The site was being pumped.					
1958-05-30	117.80				
Note: The site was being pumped.					
1958-05-23	118.10				
Note: The site was being pumped.					
1958-05-16	120.30				
Note: The site was being pumped.					
1958-05-09	113.30				
Note: The site was being pumped.					
1958-04-25	106.80				
Note: The site was being pumped.					
1958-04-10	62.80		1958-03-29	62.80	
1958-03-18	62.80		1958-03-14	62.80	
1958-02-21	62.80				
1958-02-07	107.80				
Note: The site was being pumped.					
1958-01-24	108.60				
Note: The site was being pumped.					
1958-01-13	108.10				
Note: The site was being pumped.					
1957-12-27	62.80		1957-12-13	62.80	
1957-11-29	117.10				
Note: The site was being pumped.					
1957-11-15	62.80				
1957-11-01	115.60				
Note: The site was being pumped.					
1957-10-18	62.80				
1957-10-04	125.80				
Note: The site was being pumped.					
1957-09-28	125.30				
Note: The site was being pumped.					
1957-09-20	124.80				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1957-09-13	124.30	
Note: The site was being pumped.		
1957-09-06	126.30	
Note: The site was being pumped.		
1957-08-30	127.30	
Note: The site was being pumped.		
1957-08-25	29.80	
1957-08-23	127.60	
Note: The site was being pumped.		
1957-08-16	126.30	
Note: The site was being pumped.		
1957-08-09	126.10	
Note: The site was being pumped.		
1957-08-02	125.80	
Note: The site was being pumped.		
1957-07-26	126.30	
Note: The site was being pumped.		
1957-07-19	125.60	
Note: The site was being pumped.		
1957-07-12	124.30	
Note: The site was being pumped.		
1957-07-05	124.30	
Note: The site was being pumped.		
1957-06-29	107.80	
Note: The site was being pumped.		
1957-06-28	124.30	
Note: The site was being pumped.		
1957-06-21	52.60	
1957-06-12	117.10	
Note: The site was being pumped.		
1957-05-25	116.10	
Note: The site was being pumped.		
1957-05-10	113.60	
Note: The site was being pumped.		
1957-05-01	78.80	
Note: The site was being pumped.		
1957-04-26	108.60	
Note: The site was being pumped.		
1957-04-12	112.60	
Note: The site was being pumped.		
1957-04-01	106.40	
Note: The site was being pumped.		
1957-01-04	118.10	
Note: The site was being pumped.		
1956-12-14	117.30	
Note: The site was being pumped.		
1956-11-30	120.80	
Note: The site was being pumped.		
1956-11-16	119.80	
Note: The site was being pumped.		
1956-11-02	121.10	
Note: The site was being pumped.		
1956-10-19	121.30	
Note: The site was being pumped.		
1956-10-05	2.80	
1956-09-21	121.10	
Note: The site was being pumped.		

Date	Feet below Surface	Feet to Sealevel
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1956-09-07	119.80				
Note: The site was being pumped.					
1956-08-24	120.00				
Note: The site was being pumped.					
1956-08-10	119.60				
Note: The site was being pumped.					
1956-07-27	90.30				
Note: The site was being pumped.					
1956-07-13	114.50				
Note: The site was being pumped.					
1956-06-29	114.50				
Note: The site was being pumped.					
1956-06-15	115.00				
Note: The site was being pumped.					
1956-06-05	113.70				
Note: The site was being pumped.					
1953-06-02	7.90				
Note: The site was being pumped.					
1953-05-01	57.60				
1953-04-01	11.40				
Note: The site was being pumped.					
1953-03-02	62.20				
1953-02-02	25.20				
Note: The site was being pumped.					
1953-01-05	69.10		1952-12-01	62.20	
1952-09-02	6.70				
Note: The site was being pumped.					
1952-08-01	9.00				
Note: The site was being pumped.					
1952-07-02	9.00				
Note: The site was being pumped.					
1952-06-04	6.70				
Note: The site was being pumped.					
1952-05-01	69.10				
1952-04-01	6.70				
Note: The site was being pumped.					
1952-03-03	62.20		1952-02-01	67.90	
1952-01-02	57.60				
1951-12-03	4.40				
Note: The site was being pumped.					
1951-11-01	4.40				
Note: The site was being pumped.					
1951-10-01	6.70				
Note: The site was being pumped.					
1951-09-18	5.60				
Note: The site was being pumped.					
1951-08-01	6.70				
Note: The site was being pumped.					
1951-07-02	9.00				
Note: The site was being pumped.					
1951-06-01	9.00				
Note: The site was being pumped.					
1951-05-01	63.30				
1951-04-02	9.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1951-03-01	71.50		1951-02-01	73.70	
1951-01-02	64.50		1950-12-01	69.00	
1950-11-01	7.90				
Note: The site was being pumped.					
1950-10-02	7.90				
Note: The site was being pumped.					
1950-09-01	7.90				
Note: The site was being pumped.					
1950-08-01	50.60				
1950-07-14	9.00				
Note: The site was being pumped.					
1950-06-01	10.20				
Note: The site was being pumped.					
1950-05-01	6.70				
Note: The site was being pumped.					
1950-04-14	6.70				
Note: The site was being pumped.					
1950-03-01	91.00				

B8
West
1/8 - 1/4 Mile
Lower

CA WELLS 923

Water System Information:

Prime Station Code:	01S/04W-22G16 S	User ID:	WAT
FRDS Number:	3310031087	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Agricultural/Irrigation Well
Source Lat/Long:	340425.0 1171703.1	Precision:	10 Feet (1/10 Second)
Source Name:	THORNE WELL 05 - AGRICULTURAL		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		

E9
North
1/8 - 1/4 Mile
Higher

CA WELLS CADW60000017122

Objectid:	17122
Latitude:	34.0759
Longitude:	-117.2821
Site code:	340759N1172821W001
State well numbe:	01S04W22A001S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000017122

**B10
 NW
 1/8 - 1/4 Mile
 Lower**

CA WELLS 921

Water System Information:

Prime Station Code: 01S/04W-22B07 S	User ID: WAT	
FRDS Number: 3310031090	County: Riverside	
District Number: 14	Station Type: WELL/AMBNT/MUN/INTAKE/SUPPLY	
Water Type: Well/Groundwater	Well Status: Active Raw	
Source Lat/Long: 340432.0 1171659.5	Precision: 10 Feet (1/10 Second)	
Source Name: THORNE WELL 12		
System Number: 3310031		
System Name: Riverside, City of		
Organization That Operates System: 3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served: 245000	Connections: 58586	
Area Served: RIVERSIDE		
Sample Collected: 11-FEB-11	Findings: 0.55 UG/L	
Chemical: TRICHLOROETHYLENE		
Sample Collected: 11-FEB-11	Findings: 5.5 MG/L	
Chemical: NITRATE (AS NO3)		
Sample Collected: 06-MAY-11	Findings: 5.4 PCI/L	
Chemical: GROSS ALPHA		
Sample Collected: 06-MAY-11	Findings: 2.9 PCI/L	
Chemical: GROSS ALPHA COUNTING ERROR		
Sample Collected: 06-MAY-11	Findings: 7.3 PCI/L	
Chemical: URANIUM (PCI/L)		
Sample Collected: 06-MAY-11	Findings: 3. PCI/L	
Chemical: GROSS ALPHA MDA95		
Sample Collected: 28-JUL-11	Findings: 5. UNITS	
Chemical: COLOR		
Sample Collected: 28-JUL-11	Findings: 620. US	
Chemical: SPECIFIC CONDUCTANCE		
Sample Collected: 28-JUL-11	Findings: 7.8	
Chemical: PH, LABORATORY		
Sample Collected: 28-JUL-11	Findings: 180. MG/L	
Chemical: ALKALINITY (TOTAL) AS CaCO3		
Sample Collected: 28-JUL-11	Findings: 220. MG/L	
Chemical: BICARBONATE ALKALINITY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	28-JUL-11	Findings:	260. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	28-JUL-11	Findings:	84. MG/L
Chemical:	CALCIUM		
Sample Collected:	28-JUL-11	Findings:	11. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	28-JUL-11	Findings:	28. MG/L
Chemical:	SODIUM		
Sample Collected:	28-JUL-11	Findings:	2.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	28-JUL-11	Findings:	19. MG/L
Chemical:	CHLORIDE		
Sample Collected:	28-JUL-11	Findings:	110. MG/L
Chemical:	SULFATE		
Sample Collected:	28-JUL-11	Findings:	0.51 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	28-JUL-11	Findings:	4. UG/L
Chemical:	ARSENIC		
Sample Collected:	28-JUL-11	Findings:	160. UG/L
Chemical:	BORON		
Sample Collected:	28-JUL-11	Findings:	7.1 UG/L
Chemical:	VANADIUM		
Sample Collected:	28-JUL-11	Findings:	12. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	28-JUL-11	Findings:	3.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	28-JUL-11	Findings:	9.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	28-JUL-11	Findings:	0.75 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	28-JUL-11	Findings:	420. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	28-JUL-11	Findings:	1.1
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	28-JUL-11	Findings:	4.6 MG/L
Chemical:	NITRATE (AS NO ₃)		
Sample Collected:	28-JUL-11	Findings:	5100. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	28-JUL-11	Findings:	0.31 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	28-JUL-11	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	28-JUL-11	Findings:	1100. MG/L
Chemical:	NITRATE + NITRITE (AS N)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	28-JUL-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-OCT-11	Findings:	7.4 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	19-OCT-11	Findings:	2.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-OCT-11	Findings:	8.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-OCT-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	24-MAY-12	Findings:	4.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	24-MAY-12	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-MAY-12	Findings:	5.9 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	24-MAY-12	Findings:	8.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-MAY-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	10-AUG-12	Findings:	650. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10-AUG-12	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	10-AUG-12	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	10-AUG-12	Findings:	210. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10-AUG-12	Findings:	270. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	10-AUG-12	Findings:	88. MG/L
Chemical:	CALCIUM		
Sample Collected:	10-AUG-12	Findings:	12. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10-AUG-12	Findings:	31. MG/L
Chemical:	SODIUM		
Sample Collected:	10-AUG-12	Findings:	2.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10-AUG-12	Findings:	19. MG/L
Chemical:	CHLORIDE		
Sample Collected:	10-AUG-12	Findings:	120. MG/L
Chemical:	SULFATE		
Sample Collected:	10-AUG-12	Findings:	0.51 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-AUG-12	Findings:	3.9 UG/L
Chemical:	ARSENIC		
Sample Collected:	10-AUG-12	Findings:	160. UG/L
Chemical:	BORON		
Sample Collected:	10-AUG-12	Findings:	7. UG/L
Chemical:	VANADIUM		
Sample Collected:	10-AUG-12	Findings:	6.2 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10-AUG-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-AUG-12	Findings:	9.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-AUG-12	Findings:	440. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-AUG-12	Findings:	1.2
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10-AUG-12	Findings:	4.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-AUG-12	Findings:	0.14 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	10-AUG-12	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10-AUG-12	Findings:	1100. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	10-AUG-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-SEP-12	Findings:	4.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-OCT-12	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	18-OCT-12	Findings:	650. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	18-OCT-12	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	18-OCT-12	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	18-OCT-12	Findings:	220. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	18-OCT-12	Findings:	290. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	18-OCT-12	Findings:	96. MG/L
Chemical:	CALCIUM		
Sample Collected:	18-OCT-12	Findings:	13. MG/L
Chemical:	MAGNESIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	18-OCT-12	Findings:	34. MG/L
Chemical:	SODIUM		
Sample Collected:	18-OCT-12	Findings:	3. MG/L
Chemical:	POTASSIUM		
Sample Collected:	18-OCT-12	Findings:	19. MG/L
Chemical:	CHLORIDE		
Sample Collected:	18-OCT-12	Findings:	120. MG/L
Chemical:	SULFATE		
Sample Collected:	18-OCT-12	Findings:	0.5 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	18-OCT-12	Findings:	4. UG/L
Chemical:	ARSENIC		
Sample Collected:	18-OCT-12	Findings:	170. UG/L
Chemical:	BORON		
Sample Collected:	18-OCT-12	Findings:	7. UG/L
Chemical:	VANADIUM		
Sample Collected:	18-OCT-12	Findings:	11. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	18-OCT-12	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	18-OCT-12	Findings:	9.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	18-OCT-12	Findings:	430. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	18-OCT-12	Findings:	1.1
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	18-OCT-12	Findings:	4.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-OCT-12	Findings:	5500. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	18-OCT-12	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	18-OCT-12	Findings:	1100. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	18-OCT-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	30-APR-13	Findings:	10. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	30-APR-13	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	30-APR-13	Findings:	8.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	30-APR-13	Findings:	4.6 MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	30-APR-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-JUL-13	Findings:	640. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	19-JUL-13	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	19-JUL-13	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	19-JUL-13	Findings:	220. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	19-JUL-13	Findings:	260. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	19-JUL-13	Findings:	83. MG/L
Chemical:	CALCIUM		
Sample Collected:	19-JUL-13	Findings:	11. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	19-JUL-13	Findings:	28. MG/L
Chemical:	SODIUM		
Sample Collected:	19-JUL-13	Findings:	2.4 MG/L
Chemical:	POTASSIUM		
Sample Collected:	19-JUL-13	Findings:	19. MG/L
Chemical:	CHLORIDE		
Sample Collected:	19-JUL-13	Findings:	110. MG/L
Chemical:	SULFATE		
Sample Collected:	19-JUL-13	Findings:	0.48 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	19-JUL-13	Findings:	4.1 UG/L
Chemical:	ARSENIC		
Sample Collected:	19-JUL-13	Findings:	150. UG/L
Chemical:	BORON		
Sample Collected:	19-JUL-13	Findings:	7.3 UG/L
Chemical:	VANADIUM		
Sample Collected:	19-JUL-13	Findings:	10. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	19-JUL-13	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-JUL-13	Findings:	8.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-JUL-13	Findings:	5.5e-002 MG/L
Chemical:	FOAMING AGENTS (MBAS)		
Sample Collected:	19-JUL-13	Findings:	420. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	19-JUL-13	Findings:	1.1
Chemical:	LANGELIER INDEX @ 60 C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	19-JUL-13	Findings:	4.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-JUL-13	Findings:	0.13 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	19-JUL-13	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	19-JUL-13	Findings:	1000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	19-JUL-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	25-SEP-13	Findings:	4.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	30-JAN-14	Findings:	8.9 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	30-JAN-14	Findings:	3.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	30-JAN-14	Findings:	8. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	30-JAN-14	Findings:	0.59 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	30-JAN-14	Findings:	4.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	30-JAN-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	18-JUL-14	Findings:	560. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	18-JUL-14	Findings:	8.2
Chemical:	PH, LABORATORY		
Sample Collected:	18-JUL-14	Findings:	210. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	18-JUL-14	Findings:	260. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	18-JUL-14	Findings:	2.7 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	18-JUL-14	Findings:	270. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	18-JUL-14	Findings:	88. MG/L
Chemical:	CALCIUM		
Sample Collected:	18-JUL-14	Findings:	12. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	18-JUL-14	Findings:	30. MG/L
Chemical:	SODIUM		
Sample Collected:	18-JUL-14	Findings:	2.6 MG/L
Chemical:	POTASSIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	18-JUL-14	Findings:	19. MG/L
Chemical:	CHLORIDE		
Sample Collected:	18-JUL-14	Findings:	120. MG/L
Chemical:	SULFATE		
Sample Collected:	18-JUL-14	Findings:	0.49 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	18-JUL-14	Findings:	3.8 UG/L
Chemical:	ARSENIC		
Sample Collected:	18-JUL-14	Findings:	170. UG/L
Chemical:	BORON		
Sample Collected:	18-JUL-14	Findings:	7.3 UG/L
Chemical:	VANADIUM		
Sample Collected:	18-JUL-14	Findings:	11. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	18-JUL-14	Findings:	3.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	18-JUL-14	Findings:	8. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	18-JUL-14	Findings:	0.56 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-JUL-14	Findings:	410. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	18-JUL-14	Findings:	1.5
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	18-JUL-14	Findings:	4.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-JUL-14	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	18-JUL-14	Findings:	1000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	18-JUL-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	04-MAY-16	Findings:	0.88 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	04-MAY-16	Findings:	0.88 MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	12-MAY-16	Findings:	750. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12-MAY-16	Findings:	8.2
Chemical:	PH, LABORATORY		
Sample Collected:	12-MAY-16	Findings:	200. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	12-MAY-16	Findings:	250. MG/L
Chemical:	BICARBONATE ALKALINITY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12-MAY-16	Findings:	2.6 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	12-MAY-16	Findings:	0.93 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-MAY-16	Findings:	310. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	12-MAY-16	Findings:	100. MG/L
Chemical:	CALCIUM		
Sample Collected:	12-MAY-16	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12-MAY-16	Findings:	34. MG/L
Chemical:	SODIUM		
Sample Collected:	12-MAY-16	Findings:	3.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12-MAY-16	Findings:	30. MG/L
Chemical:	CHLORIDE		
Sample Collected:	12-MAY-16	Findings:	140. MG/L
Chemical:	SULFATE		
Sample Collected:	12-MAY-16	Findings:	0.45 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	12-MAY-16	Findings:	3.4 UG/L
Chemical:	ARSENIC		
Sample Collected:	12-MAY-16	Findings:	300. UG/L
Chemical:	BORON		
Sample Collected:	12-MAY-16	Findings:	5.9 UG/L
Chemical:	VANADIUM		
Sample Collected:	12-MAY-16	Findings:	13. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12-MAY-16	Findings:	0.32 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-MAY-16	Findings:	12. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-MAY-16	Findings:	500. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12-MAY-16	Findings:	1.5
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	12-MAY-16	Findings:	0.16 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	12-MAY-16	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	12-MAY-16	Findings:	0.93 MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	12-MAY-16	Findings:	1.6 PCI/L
Chemical:	GROSS ALPHA MDA95		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11-FEB-11	Findings:	7. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11-FEB-11	Findings:	9.2 PCI/L
Chemical:	URANIUM (PCI/L)		

**B11
NW
1/8 - 1/4 Mile
Lower**

CA WELLS 920

Water System Information:

Prime Station Code:	01S/04W-22B03 S	User ID:	WAT
FRDS Number:	3310031089	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Agricultural/Irrigation Well
Source Lat/Long:	340432.0 1171659.5	Precision:	10 Feet (1/10 Second)
Source Name:	THORNE WELL 10 - AGRICULTURAL		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		
Sample Collected:	27-JUN-12	Findings:	920. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	27-JUN-12	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	27-JUN-12	Findings:	260. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	27-JUN-12	Findings:	320. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	27-JUN-12	Findings:	410. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	27-JUN-12	Findings:	120. MG/L
Chemical:	CALCIUM		
Sample Collected:	27-JUN-12	Findings:	24. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	27-JUN-12	Findings:	48. MG/L
Chemical:	SODIUM		
Sample Collected:	27-JUN-12	Findings:	5.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	27-JUN-12	Findings:	32. MG/L
Chemical:	CHLORIDE		
Sample Collected:	27-JUN-12	Findings:	170. MG/L
Chemical:	SULFATE		
Sample Collected:	27-JUN-12	Findings:	56. UG/L
Chemical:	ALUMINUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	27-JUN-12	Findings:	670. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	27-JUN-12	Findings:	1.6
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	27-JUN-12	Findings:	4.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	27-JUN-12	Findings:	0.15 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	27-JUN-12	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	27-JUN-12	Findings:	1100. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	27-JUN-13	Findings:	1000. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	27-JUN-13	Findings:	7.5
Chemical:	PH, LABORATORY		
Sample Collected:	27-JUN-13	Findings:	280. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	27-JUN-13	Findings:	340. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	27-JUN-13	Findings:	450. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	27-JUN-13	Findings:	140. MG/L
Chemical:	CALCIUM		
Sample Collected:	27-JUN-13	Findings:	24. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	27-JUN-13	Findings:	45. MG/L
Chemical:	SODIUM		
Sample Collected:	27-JUN-13	Findings:	4.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	27-JUN-13	Findings:	38. MG/L
Chemical:	CHLORIDE		
Sample Collected:	27-JUN-13	Findings:	200. MG/L
Chemical:	SULFATE		
Sample Collected:	27-JUN-13	Findings:	700. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	27-JUN-13	Findings:	1.2
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	27-JUN-13	Findings:	6.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	27-JUN-13	Findings:	0.13 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	27-JUN-13	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected: 27-JUN-13 Findings: 1400. MG/L
 Chemical: NITRATE + NITRITE (AS N)

C12
WSW
 1/8 - 1/4 Mile
 Lower

FED USGS USGS40000140571

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340422117170301		
Monloc name:	001S004W22G003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0727907
Longitude:	-117.2850426	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	993.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	112
Welldepth units:	ft	Wellholedepth:	123
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below	Feet to
	Surface	Sealevel

1950-03-15	5.65	

B13
WNW
 1/8 - 1/4 Mile
 Lower

CA WELLS CADW60000003248

Objectid:	3248
Latitude:	34.0745
Longitude:	-117.2851
Site code:	340745N1172851W001
State well numbe:	01S04W22B004S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000003248

**E14
 NNE
 1/8 - 1/4 Mile
 Higher**

FED USGS USGS40000140641

Org. Identifier: USGS-CA	
Formal name: USGS California Water Science Center	
Monloc Identifier: USGS-340433117164901	
Monloc name: 001S004W22A001S	
Monloc type: Well	
Monloc desc: Not Reported	
Huc code: 18070203	Drainagearea value: Not Reported
Drainagearea Units: Not Reported	Contrib drainagearea: Not Reported
Contrib drainagearea units: Not Reported	Latitude: 34.0758462
Longitude: -117.2811536	Sourcemap scale: Not Reported
Horiz Acc measure: 1	Horiz Acc measure units: seconds
Horiz Collection method: Interpolated from map	
Horiz coord refsys: NAD83	Vert measure val: 1007.00
Vert measure units: feet	Vertacc measure val: .5
Vert accmeasure units: feet	
Vertcollection method: Level or other surveying method	
Vert coord refsys: NGVD29	Countrycode: US
Aquifername: California Coastal Basin aquifers	
Formation type: Not Reported	
Aquifer type: Not Reported	
Construction date: 19010101	Welldepth: 642
Welldepth units: ft	Wellholedepth: 642
Wellholedepth units: ft	

Ground-water levels, Number of Measurements: 9

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1916-04-15	86.30		1916-03-22	96.00	
1916-02-24	93.90		1916-01-14	90.00	
1915-12-27	86.50		1915-11-29	66.60	
1915-09-13	54.70		1915-06-02	77.30	
1915-04-19	87.00				

**D15
 ESE
 1/8 - 1/4 Mile
 Higher**

CA WELLS 928

Water System Information:

Prime Station Code: 01S/04W-22H03 S	User ID: WAT
FRDS Number: 3310031102	County: Riverside
District Number: 14	Station Type: WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type: Well/Groundwater	Well Status: Active Raw
Source Lat/Long: 340421.1 1171644.7	Precision: 10 Feet (1/10 Second)
Source Name: WARREN WELL 03	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number: 3310031
 System Name: Riverside, City of
 Organization That Operates System:
 3900 MAIN STREET
 RIVERSIDE, CA 92522
 Pop Served: 245000
 Area Served: RIVERSIDE
 Sample Collected: 31-MAY-07
 Chemical: ODOR THRESHOLD @ 60 C
 Connections: 58586
 Findings: 2. TON

D16
ESE
1/8 - 1/4 Mile
Higher

FED USGS USGS40000140562

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340421117164401		
Monloc name:	001S004W22H003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.072513
Longitude:	-117.2797646	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1001.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19480101	Welldepth:	861
Welldepth units:	ft	Wellholedepth:	861
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 303

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-03-31	82.80		1969-11-28	110.70	
1969-01-03	114.90		1968-05-03	102.90	
1967-11-30	97.90		1967-09-08	128.00	
1967-08-04	117.00		1967-07-07	107.00	
1967-06-02	95.00		1967-05-05	85.00	
1967-04-07	90.00		1967-03-03	96.00	
1967-02-03	82.00		1967-01-06	85.00	
1966-12-02	104.00		1966-11-04	114.00	
1966-10-07	110.00		1966-09-23	119.00	
1966-08-26	120.00		1966-07-29	122.00	
1966-06-03	90.80		1966-05-06	99.00	
1966-04-15	99.00		1966-03-18	87.00	
1966-02-18	81.00		1966-01-14	87.00	
1965-12-24	88.00		1965-11-19	93.00	
1965-10-22	103.00		1965-09-03	113.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1965-06-11	96.00		1965-05-14	78.20	
1965-04-16	78.00		1965-04-02	83.60	
1965-03-19	81.60		1965-03-05	89.30	
1965-02-19	92.80		1965-02-05	91.00	
1965-01-15	83.00		1965-01-02	85.00	
1964-12-18	89.90		1964-12-04	89.00	
1964-11-20	87.00		1964-11-04	97.00	
1964-10-23	96.60		1964-09-25	109.00	
1964-09-11	111.00		1964-08-28	107.00	
1964-08-14	107.30				
1964-07-17	180.90				
Note: The site was being pumped.					
1964-06-19	176.00				
1964-05-15	171.60				
Note: The site was being pumped.					
1964-05-01	84.90		1964-04-10	74.00	
1964-03-13	82.00		1964-02-14	76.90	
1964-01-10	84.30		1963-12-13	87.60	
1963-11-29	75.00		1963-11-15	85.30	
1963-11-01	85.30		1963-10-18	86.00	
1963-10-04	79.00				
1963-09-13	175.30				
Note: The site was being pumped.					
1963-08-30	177.30				
Note: The site was being pumped.					
1963-08-16	176.60				
Note: The site was being pumped.					
1963-08-01	174.30				
Note: The site was being pumped.					
1963-07-12	173.30				
Note: The site was being pumped.					
1963-06-21	82.00		1963-06-07	79.60	
1963-05-24	76.60		1963-05-10	76.00	
1963-04-26	68.00		1963-03-29	60.60	
1963-03-15	70.60		1963-03-01	66.90	
1963-02-08	84.00		1963-01-26	77.00	
1962-12-21	75.00		1962-12-08	72.00	
1962-11-23	70.00				
1962-11-09	162.30				
Note: The site was being pumped.					
1962-10-26	163.60				
Note: The site was being pumped.					
1962-10-12	164.00				
Note: The site was being pumped.					
1962-09-28	76.00				
1962-09-14	166.00				
Note: The site was being pumped.					
1962-08-31	164.60				
Note: The site was being pumped.					
1962-08-17	163.00				
Note: The site was being pumped.					
1962-08-03	165.30				
Note: The site was being pumped.					
1962-07-20	79.00		1962-06-29	75.50	
1962-06-15	68.00		1962-06-01	68.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1962-05-18	63.00				
1962-05-04	160.50				
Note: The site was being pumped.					
1962-04-13	163.00				
Note: The site was being pumped.					
1962-03-30	39.80		1962-03-16	41.00	
1962-03-02	45.30		1962-02-22	46.00	
1962-02-02	158.00				
Note: The site was being pumped.					
1962-01-05	60.00		1961-12-08	59.00	
1961-11-17	73.00		1961-11-03	75.50	
1961-10-13	162.00				
Note: The site was being pumped.					
1961-09-29	164.00				
Note: The site was being pumped.					
1961-09-15	163.00				
Note: The site was being pumped.					
1961-09-01	80.00				
1961-08-18	167.00				
Note: The site was being pumped.					
1961-08-04	79.00				
1961-07-14	165.50				
Note: The site was being pumped.					
1961-06-30	83.50		1961-06-16	168.00	
1961-06-02	65.00		1961-05-12	63.60	
1961-05-05	62.00		1961-04-14	60.60	
1961-03-31	54.00		1961-03-16	57.60	
1961-03-03	165.00				
Note: The site was being pumped.					
1961-02-17	60.00		1961-02-02	49.60	
1961-01-20	165.00				
Note: The site was being pumped.					
1961-01-06	58.00		1960-12-23	61.60	
1960-11-25	55.30		1960-11-11	50.10	
1960-10-28	61.60		1960-10-14	59.30	
1960-09-30	59.30		1960-09-14	68.00	
1960-09-02	62.90				
1960-08-19	160.00				
Note: The site was being pumped.					
1960-08-05	162.60				
Note: The site was being pumped.					
1960-07-15	161.00				
Note: The site was being pumped.					
1960-07-01	158.00				
Note: The site was being pumped.					
1960-06-24	151.00				
Note: The site was being pumped.					
1960-06-10	53.00				
1960-05-27	163.00				
Note: The site was being pumped.					
1960-05-20	158.00				
Note: The site was being pumped.					
1960-04-29	39.50				
1960-04-15	165.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1960-04-01	160.00				
Note: The site was being pumped.					
1960-03-18	29.00				
Note: The site was being pumped.					
1960-03-04	16.50		1960-02-19	22.00	
1960-01-29	25.50		1960-01-15	29.00	
1960-01-03	38.30		1959-12-18	56.00	
1959-12-04	58.30		1959-11-13	57.30	
1959-11-02	57.00		1959-10-19	61.00	
1959-10-02	53.00		1959-09-25	55.30	
1959-09-18	54.00				
1959-09-11	154.00				
Note: The site was being pumped.					
1959-09-04	156.00				
Note: The site was being pumped.					
1959-08-28	156.00				
Note: The site was being pumped.					
1959-08-21	158.80				
Note: The site was being pumped.					
1959-08-14	159.00				
Note: The site was being pumped.					
1959-08-07	158.50				
Note: The site was being pumped.					
1959-07-31	159.00				
Note: The site was being pumped.					
1959-07-24	159.00				
Note: The site was being pumped.					
1959-07-17	159.00				
Note: The site was being pumped.					
1959-07-10	159.00				
Note: The site was being pumped.					
1959-07-03	158.30				
Note: The site was being pumped.					
1959-06-26	51.60				
1959-06-19	157.90				
Note: The site was being pumped.					
1959-06-12	154.60				
Note: The site was being pumped.					
1959-06-05	50.90				
1959-05-22	152.00				
Note: The site was being pumped.					
1959-05-15	152.00				
Note: The site was being pumped.					
1959-05-01	43.30		1959-04-24	46.30	
1959-04-17	39.30		1959-04-10	40.90	
1959-03-27	36.60		1959-03-13	17.30	
1959-02-20	20.30		1959-02-06	41.90	
1959-01-23	33.90		1959-01-02	38.60	
1958-12-19	41.60		1958-12-05	44.30	
1958-11-21	45.00				
1958-11-07	151.00				
Note: The site was being pumped.					
1958-10-24	42.30				
1958-10-17	155.30				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-10-10	45.00				
1958-10-03	155.00				
Note: The site was being pumped.					
1958-09-26	156.00				
Note: The site was being pumped.					
1958-09-19	157.00				
Note: The site was being pumped.					
1958-09-13	158.60				
Note: The site was being pumped.					
1958-09-05	158.60				
Note: The site was being pumped.					
1958-08-29	158.00				
Note: The site was being pumped.					
1958-08-22	48.60		1958-08-16	48.00	
1958-08-08	160.60				
Note: The site was being pumped.					
1958-08-01	161.60				
Note: The site was being pumped.					
1958-07-25	162.00				
Note: The site was being pumped.					
1958-07-18	160.00				
Note: The site was being pumped.					
1958-07-11	156.00				
Note: The site was being pumped.					
1958-07-04	156.00				
Note: The site was being pumped.					
1958-06-27	152.00				
Note: The site was being pumped.					
1958-06-20	153.00				
Note: The site was being pumped.					
1958-06-13	41.50		1958-06-06	41.30	
1958-05-30	149.30				
Note: The site was being pumped.					
1958-05-23	142.00				
Note: The site was being pumped.					
1958-05-16	146.30				
Note: The site was being pumped.					
1958-05-09	31.50		1958-04-25	15.30	
1958-04-10	2.50		1958-03-29	8.00	
1958-03-14	7.50		1958-02-21	13.80	
1958-02-07	18.00		1958-01-24	41.80	
1958-01-13	34.30		1957-12-27	22.00	
1957-12-13	40.50		1957-11-29	47.00	
1957-11-15	30.50		1957-11-01	39.30	
1957-10-18	46.30		1957-10-04	54.80	
1957-09-28	56.30		1957-09-20	53.00	
1957-09-13	161.80				
Note: The site was being pumped.					
1957-09-06	162.50				
Note: The site was being pumped.					
1957-08-30	162.80				
Note: The site was being pumped.					
1957-08-25	55.30				
1957-08-23	158.30				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1957-08-16	168.80				
Note: The site was being pumped.					
1957-08-09	164.50				
Note: The site was being pumped.					
1957-08-02	164.50				
Note: The site was being pumped.					
1957-07-26	162.00				
Note: The site was being pumped.					
1957-07-19	163.50				
Note: The site was being pumped.					
1957-07-12	164.00				
Note: The site was being pumped.					
1957-07-05	161.50				
Note: The site was being pumped.					
1957-06-29	51.30				
1957-06-28	169.30				
Note: The site was being pumped.					
1957-06-21	163.00				
Note: The site was being pumped.					
1957-06-12	159.30				
Note: The site was being pumped.					
1957-05-25	148.20				
Note: The site was being pumped.					
1957-05-10	160.80		1957-05-08	32.80	
1957-04-28	144.00				
Note: The site was being pumped.					
1957-04-26	30.00				
1957-04-01	155.50				
Note: The site was being pumped.					
1957-03-15	10.00		1957-03-01	13.30	
1957-02-15	15.30		1957-02-04	13.00	
1957-01-21	28.80				
1957-01-12	160.00				
Note: The site was being pumped.					
1957-01-04	40.00		1956-12-14	44.50	
1956-11-30	51.00		1956-11-16	51.30	
1956-11-02	48.30		1956-10-19	50.00	
1956-10-05	51.30				
1956-09-21	155.50				
Note: The site was being pumped.					
1956-09-07	168.00				
Note: The site was being pumped.					
1956-08-24	170.00				
Note: The site was being pumped.					
1956-08-10	167.00				
Note: The site was being pumped.					
1956-07-27	49.00		1956-07-13	97.30	
1956-06-29	101.70		1956-06-15	98.40	
1956-06-05	98.10		1953-02-02	17.50	
1953-01-05	18.10		1952-12-01	8.20	
1952-05-01	8.20		1952-04-01	12.90	
1952-03-03	8.20		1952-02-01	17.50	
1952-01-02	9.40		1951-12-03	16.00	
1951-11-01	20.80		1951-08-01	19.60	
1951-05-01	5.60		1951-04-02	11.20	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1951-02-01	12.90		1951-01-02	0.30	
1950-11-01	12.50		1950-10-02	11.80	
1950-09-15	12.20		1950-08-01	15.10	
1950-06-15	8.40		1950-05-01	4.80	
1950-04-14	7.10		1950-03-01	32.50	
1950-02-01	25.60		1950-01-03	15.20	
1949-10-01	0.90		1948-06-01	32.50	
1948-05-01	37.10				

D17
ESE
1/8 - 1/4 Mile
Higher

FED USGS

USGS40000140563

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340421117164402		
Monloc name:	001S004W22H004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.072513
Longitude:	-117.2797646	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	965
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

D18
ENE
1/8 - 1/4 Mile
Higher

CA WELLS

927

Water System Information:

Prime Station Code:	01S/04W-22H02 S	User ID:	WAT
FRDS Number:	3310031103	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340427.2 1171643.2	Precision:	10 Feet (1/10 Second)
Source Name:	WARREN WELL 04		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		
Sample Collected:	13-APR-11	Findings:	6. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	13-APR-11	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	13-APR-11	Findings:	1.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	13-APR-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	14-APR-11	Findings:	2.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	29-JUN-11	Findings:	2.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	29-JUN-11	Findings:	1.3 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	29-JUN-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-JUL-11	Findings:	2.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-SEP-11	Findings:	2.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	16-SEP-11	Findings:	1.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	16-SEP-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	10-MAY-12	Findings:	2.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-JUN-12	Findings:	1.4e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	03-AUG-12	Findings:	2.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03-AUG-12	Findings:	1.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	03-AUG-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	04-OCT-12	Findings:	3.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-OCT-12	Findings:	2.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	18-OCT-12	Findings:	1.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	18-OCT-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	05-MAR-13	Findings:	3.2 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	05-MAR-13	Findings:	2.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05-MAR-13	Findings:	1.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05-MAR-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	05-JUN-13	Findings:	5.9 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	05-JUN-13	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05-JUN-13	Findings:	1.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05-JUN-13	Findings:	3.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JUN-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	05-JUL-13	Findings:	370. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	05-JUL-13	Findings:	8.3
Chemical:	PH, LABORATORY		
Sample Collected:	05-JUL-13	Findings:	92. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	05-JUL-13	Findings:	110. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05-JUL-13	Findings:	37. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	05-JUL-13	Findings:	14. MG/L
Chemical:	CALCIUM		
Sample Collected:	05-JUL-13	Findings:	0.55 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05-JUL-13	Findings:	78. MG/L
Chemical:	SODIUM		
Sample Collected:	05-JUL-13	Findings:	1.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	05-JUL-13	Findings:	25. MG/L
Chemical:	CHLORIDE		
Sample Collected:	05-JUL-13	Findings:	38. MG/L
Chemical:	SULFATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05-JUL-13	Findings:	0.93 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	05-JUL-13	Findings:	4.1 UG/L
Chemical:	ARSENIC		
Sample Collected:	05-JUL-13	Findings:	14. UG/L
Chemical:	VANADIUM		
Sample Collected:	05-JUL-13	Findings:	230. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05-JUL-13	Findings:	0.52
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	05-JUL-13	Findings:	3.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JUL-13	Findings:	0.17 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	05-JUL-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	05-JUL-13	Findings:	750. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	13-AUG-13	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	13-AUG-13	Findings:	1.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	13-AUG-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	12-SEP-13	Findings:	380. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12-SEP-13	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	12-SEP-13	Findings:	89. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	12-SEP-13	Findings:	110. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12-SEP-13	Findings:	33. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	12-SEP-13	Findings:	12. MG/L
Chemical:	CALCIUM		
Sample Collected:	12-SEP-13	Findings:	0.5 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12-SEP-13	Findings:	67. MG/L
Chemical:	SODIUM		
Sample Collected:	12-SEP-13	Findings:	1.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12-SEP-13	Findings:	26. MG/L
Chemical:	CHLORIDE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12-SEP-13	Findings:	39. MG/L
Chemical:	SULFATE		
Sample Collected:	12-SEP-13	Findings:	0.85 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	12-SEP-13	Findings:	3.9 UG/L
Chemical:	ARSENIC		
Sample Collected:	12-SEP-13	Findings:	14. UG/L
Chemical:	VANADIUM		
Sample Collected:	12-SEP-13	Findings:	230. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12-SEP-13	Findings:	0.15
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	12-SEP-13	Findings:	3.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-SEP-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	12-SEP-13	Findings:	820. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	19-SEP-13	Findings:	380. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	19-SEP-13	Findings:	8.3
Chemical:	PH, LABORATORY		
Sample Collected:	19-SEP-13	Findings:	92. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	19-SEP-13	Findings:	110. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	19-SEP-13	Findings:	32. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	19-SEP-13	Findings:	12. MG/L
Chemical:	CALCIUM		
Sample Collected:	19-SEP-13	Findings:	0.49 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	19-SEP-13	Findings:	68. MG/L
Chemical:	SODIUM		
Sample Collected:	19-SEP-13	Findings:	1.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	19-SEP-13	Findings:	26. MG/L
Chemical:	CHLORIDE		
Sample Collected:	19-SEP-13	Findings:	38. MG/L
Chemical:	SULFATE		
Sample Collected:	19-SEP-13	Findings:	0.92 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	19-SEP-13	Findings:	4.6 UG/L
Chemical:	ARSENIC		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	19-SEP-13	Findings:	14. UG/L
Chemical:	VANADIUM		
Sample Collected:	19-SEP-13	Findings:	220. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	19-SEP-13	Findings:	0.45
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	19-SEP-13	Findings:	3.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-SEP-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	19-SEP-13	Findings:	800. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	21-MAR-14	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	21-MAR-14	Findings:	1.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	21-MAR-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-MAY-14	Findings:	0.149 PCI/L
Chemical:	STRONTIUM-90 COUNTING ERROR		
Sample Collected:	15-MAY-14	Findings:	3. UNITS
Chemical:	COLOR		
Sample Collected:	15-MAY-14	Findings:	380. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	15-MAY-14	Findings:	8.4
Chemical:	PH, LABORATORY		
Sample Collected:	15-MAY-14	Findings:	78. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	15-MAY-14	Findings:	94. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	15-MAY-14	Findings:	29. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	15-MAY-14	Findings:	11. MG/L
Chemical:	CALCIUM		
Sample Collected:	15-MAY-14	Findings:	0.42 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	15-MAY-14	Findings:	69. MG/L
Chemical:	SODIUM		
Sample Collected:	15-MAY-14	Findings:	1.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	15-MAY-14	Findings:	29. MG/L
Chemical:	CHLORIDE		
Sample Collected:	15-MAY-14	Findings:	41. MG/L
Chemical:	SULFATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	15-MAY-14	Findings:	0.94 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	15-MAY-14	Findings:	4.6 UG/L
Chemical:	ARSENIC		
Sample Collected:	15-MAY-14	Findings:	15. UG/L
Chemical:	VANADIUM		
Sample Collected:	15-MAY-14	Findings:	3.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	15-MAY-14	Findings:	3.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	15-MAY-14	Findings:	1.2 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	15-MAY-14	Findings:	230. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	15-MAY-14	Findings:	0.41
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	15-MAY-14	Findings:	22. PCI/L
Chemical:	RADON 222 COUNTING ERROR		
Sample Collected:	15-MAY-14	Findings:	660. PCI/L
Chemical:	RADON 222		
Sample Collected:	15-MAY-14	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	15-MAY-14	Findings:	420. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	15-MAY-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-AUG-14	Findings:	2.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-AUG-14	Findings:	1.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	06-AUG-14	Findings:	2.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-AUG-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	10-MAR-15	Findings:	2.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-MAR-15	Findings:	1.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-MAR-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-MAY-15	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	21-MAY-15	Findings:	1.7 PCI/L
Chemical:	URANIUM (PCI/L)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	21-MAY-15	Findings:	2.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-MAY-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	27-AUG-15	Findings:	3.1 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	27-AUG-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	27-AUG-15	Findings:	1.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	27-AUG-15	Findings:	2.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	27-AUG-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	10-DEC-15	Findings:	0.58 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	10-DEC-15	Findings:	2.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-DEC-15	Findings:	1.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-DEC-15	Findings:	2.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-DEC-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	12-FEB-16	Findings:	0.56 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-FEB-16	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-FEB-16	Findings:	1.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-FEB-16	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	12-MAY-16	Findings:	0.58 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-MAY-16	Findings:	2.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-MAY-16	Findings:	1.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-MAY-16	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		

C19
WSW
1/8 - 1/4 Mile
Lower

FED USGS USGS40000140573

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340422117170402		
Monloc name:	001S004W22G010S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0727907
Longitude:	-117.2853203	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	986.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	163
Welldepth units:	ft	Wellholedepth:	165
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C20
WSW
1/8 - 1/4 Mile
Lower

FED USGS USGS40000140572

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340422117170401		
Monloc name:	001S004W22G009S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0727907
Longitude:	-117.2853203	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	985.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	96
Welldepth units:	ft	Wellholedepth:	97
Wellholedepth units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 309

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1965-06-18	91.50				
Note: The site was being pumped.					
1965-05-14	87.20				
Note: The site was being pumped.					
1965-04-15	79.10		1965-04-02	83.30	
1965-03-18	84.50		1965-02-26	87.10	
1965-01-22	82.80		1965-01-08	83.60	
1964-12-24	90.40		1964-11-20	88.00	
1964-10-16	93.30		1964-10-03	91.60	
1964-09-18	93.90				
Note: The site was being pumped.					
1964-08-14	93.00				
Note: The site was being pumped.					
1964-07-03	89.30				
Note: The site was being pumped.					
1964-06-26	88.60				
Note: The site was being pumped.					
1964-06-12	87.40				
Note: The site was being pumped.					
1964-06-05	87.00				
Note: The site was being pumped.					
1964-05-15	84.80				
Note: The site was being pumped.					
1964-05-01	81.30				
1964-04-17	79.30				
Note: The site was being pumped.					
1964-04-03	73.60		1964-03-13	76.30	
1964-03-06	79.20		1964-02-14	72.00	
1964-02-07	71.90				
1964-01-16	80.70				
Note: The site was being pumped.					
1964-01-03	79.60				
Note: The site was being pumped.					
1963-12-12	73.10		1963-12-06	73.00	
1963-11-14	85.00				
Note: The site was being pumped.					
1963-11-07	78.80				
1963-10-17	85.60				
Note: The site was being pumped.					
1963-10-04	78.90				
1963-09-13	83.70				
Note: The site was being pumped.					
1963-09-06	82.40				
1963-08-16	87.90				
Note: The site was being pumped.					
1963-08-02	87.50				
Note: The site was being pumped.					
1963-07-12	84.80				
Note: The site was being pumped.					
1963-07-05	83.80				
Note: The site was being pumped.					
1963-06-28	83.30				
Note: The site was being pumped.					
1963-06-21	81.10				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1963-06-07	80.30				
	Note: The site was being pumped.				
1963-05-24	78.20				
	Note: The site was being pumped.				
1963-05-10	76.60				
	Note: The site was being pumped.				
1963-04-26	72.60				
	Note: The site was being pumped.				
1963-04-12	72.50				
	Note: The site was being pumped.				
1963-03-29	61.20				
1963-03-15	73.20				
	Note: The site was being pumped.				
1963-03-01	64.90		1963-02-15	71.20	
1963-02-01	81.20				
	Note: The site was being pumped.				
1963-01-18	75.20				
1963-01-04	79.90				
	Note: The site was being pumped.				
1962-12-21	73.30				
1962-12-07	82.20				
	Note: The site was being pumped.				
1962-11-23	80.20				
	Note: The site was being pumped.				
1962-11-09	83.30				
	Note: The site was being pumped.				
1962-10-26	81.40				
	Note: The site was being pumped.				
1962-10-12	83.00				
	Note: The site was being pumped.				
1962-09-28	82.10				
	Note: The site was being pumped.				
1962-09-13	81.30				
	Note: The site was being pumped.				
1962-08-31	81.30				
	Note: The site was being pumped.				
1962-08-17	79.10				
	Note: The site was being pumped.				
1962-08-03	78.10				
	Note: The site was being pumped.				
1962-07-20	76.40				
	Note: The site was being pumped.				
1962-07-06	75.50				
	Note: The site was being pumped.				
1962-06-22	73.00		1962-06-01	69.50	
1962-05-19	68.00				
	Note: The site was being pumped.				
1962-05-04	67.70				
	Note: The site was being pumped.				
1962-04-20	55.10		1962-04-06	40.80	
1962-03-16	38.30		1962-03-02	41.10	
1962-02-16	47.00		1962-02-02	52.70	
1962-01-19	65.80				
	Note: The site was being pumped.				
1962-01-05	62.90				
	Note: The site was being pumped.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1961-12-29	56.20		1961-12-15	60.30	
1961-11-24	75.30				
Note: The site was being pumped.					
1961-11-10	76.30				
1961-10-27	77.00				
Note: The site was being pumped.					
1961-10-13	77.00				
Note: The site was being pumped.					
1961-09-29	76.80				
Note: The site was being pumped.					
1961-09-15	76.40				
Note: The site was being pumped.					
1961-08-25	75.00		1961-08-11	75.20	
1961-07-28	74.30				
1961-07-14	73.80				
Note: The site was being pumped.					
1961-06-16	71.00				
Note: The site was being pumped.					
1961-06-02	69.40				
Note: The site was being pumped.					
1961-05-19	68.80				
Note: The site was being pumped.					
1961-05-05	67.20				
Note: The site was being pumped.					
1961-04-14	66.70				
Note: The site was being pumped.					
1961-04-07	66.00				
Note: The site was being pumped.					
1961-03-17	67.30				
Note: The site was being pumped.					
1961-03-03	64.00				
Note: The site was being pumped.					
1961-02-17	65.40				
Note: The site was being pumped.					
1961-02-10	63.90				
Note: The site was being pumped.					
1961-01-13	65.90				
Note: The site was being pumped.					
1961-01-06	65.30				
Note: The site was being pumped.					
1960-12-16	63.80		1960-12-02	52.60	
1960-11-18	65.00				
Note: The site was being pumped.					
1960-11-04	68.30				
Note: The site was being pumped.					
1960-10-21	68.30				
Note: The site was being pumped.					
1960-10-07	69.30				
Note: The site was being pumped.					
1960-09-16	68.00				
Note: The site was being pumped.					
1960-09-03	66.30				
Note: The site was being pumped.					
1960-08-19	67.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1960-08-05	66.10				
Note: The site was being pumped.					
1960-07-15	64.50		1960-07-01	63.00	
1960-06-17	60.10				
Note: The site was being pumped.					
1960-06-10	59.90				
Note: The site was being pumped.					
1960-06-03	60.40				
Note: The site was being pumped.					
1960-05-20	57.20				
Note: The site was being pumped.					
1960-05-13	57.00				
Note: The site was being pumped.					
1960-05-06	57.90				
Note: The site was being pumped.					
1960-04-29	52.20				
Note: The site was being pumped.					
1960-04-22	54.30				
Note: The site was being pumped.					
1960-04-15	53.80				
Note: The site was being pumped.					
1960-04-08	50.90				
Note: The site was being pumped.					
1960-04-01	46.50				
Note: The site was being pumped.					
1960-03-25	26.80		1960-03-18	20.70	
1960-03-11	17.80		1960-03-04	17.40	
1960-02-26	19.30		1960-02-19	20.00	
1960-02-12	22.60		1960-02-05	24.80	
1960-01-29	27.90		1960-01-22	30.00	
1960-01-15	31.20		1960-01-08	35.20	
1959-12-28	45.20				
1959-12-18	64.70				
Note: The site was being pumped.					
1959-12-11	64.80				
Note: The site was being pumped.					
1959-12-04	65.80				
Note: The site was being pumped.					
1959-11-27	65.20				
Note: The site was being pumped.					
1959-11-20	64.80				
Note: The site was being pumped.					
1959-11-13	65.80				
Note: The site was being pumped.					
1959-11-06	66.10				
Note: The site was being pumped.					
1959-10-30	66.80				
Note: The site was being pumped.					
1959-10-23	66.90				
Note: The site was being pumped.					
1959-10-16	66.80				
Note: The site was being pumped.					
1959-10-09	66.20				
Note: The site was being pumped.					
1959-10-02	65.20				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-09-25	65.10				
	Note: The site was being pumped.				
1959-09-18	66.00				
	Note: The site was being pumped.				
1959-09-11	66.90				
	Note: The site was being pumped.				
1959-09-04	66.20				
	Note: The site was being pumped.				
1959-08-28	64.40				
	Note: The site was being pumped.				
1959-08-21	64.30				
	Note: The site was being pumped.				
1959-08-14	65.70				
	Note: The site was being pumped.				
1959-08-07	63.90				
	Note: The site was being pumped.				
1959-07-31	64.00				
	Note: The site was being pumped.				
1959-07-24	63.90				
	Note: The site was being pumped.				
1959-07-17	63.20				
	Note: The site was being pumped.				
1959-07-10	63.30				
	Note: The site was being pumped.				
1959-07-03	62.20				
	Note: The site was being pumped.				
1959-06-26	61.70				
	Note: The site was being pumped.				
1959-06-19	60.00				
	Note: The site was being pumped.				
1959-06-12	59.30				
	Note: The site was being pumped.				
1959-06-05	58.60				
	Note: The site was being pumped.				
1959-05-29	58.80				
	Note: The site was being pumped.				
1959-05-22	58.00				
	Note: The site was being pumped.				
1959-05-15	56.80				
	Note: The site was being pumped.				
1959-05-08	55.20				
	Note: The site was being pumped.				
1959-05-01	54.40				
	Note: The site was being pumped.				
1959-04-24	51.10				
	Note: The site was being pumped.				
1959-04-17	52.00				
	Note: The site was being pumped.				
1959-04-10	50.00				
	Note: The site was being pumped.				
1959-04-03	45.80				
	Note: The site was being pumped.				
1959-03-27	30.50		1959-03-20	19.90	
1959-03-13	21.60		1959-03-06	22.50	
1959-02-27	26.10		1959-02-20	31.40	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-02-13	50.30				
Note: The site was being pumped.					
1959-02-06	38.70		1959-01-30	37.10	
1959-01-23	35.80		1959-01-16	38.70	
1959-01-09	40.70		1959-01-02	38.60	
1958-12-19	47.10				
1958-12-12	54.60				
Note: The site was being pumped.					
1958-12-05	45.90				
1958-11-28	54.80				
Note: The site was being pumped.					
1958-11-21	56.70				
Note: The site was being pumped.					
1958-11-14	57.70				
Note: The site was being pumped.					
1958-11-07	55.30				
Note: The site was being pumped.					
1958-10-31	57.50				
Note: The site was being pumped.					
1958-10-24	58.40				
Note: The site was being pumped.					
1958-10-17	56.90				
Note: The site was being pumped.					
1958-10-10	59.00				
Note: The site was being pumped.					
1958-10-03	58.30				
Note: The site was being pumped.					
1958-09-26	59.00				
Note: The site was being pumped.					
1958-09-19	60.20				
Note: The site was being pumped.					
1958-09-12	55.50				
1958-09-05	60.30				
Note: The site was being pumped.					
1958-08-29	59.70				
Note: The site was being pumped.					
1958-08-22	58.90				
Note: The site was being pumped.					
1958-08-15	59.90				
Note: The site was being pumped.					
1958-08-08	59.70				
Note: The site was being pumped.					
1958-08-01	59.90				
Note: The site was being pumped.					
1958-07-11	56.50				
Note: The site was being pumped.					
1958-07-04	55.40				
Note: The site was being pumped.					
1958-06-27	53.50				
Note: The site was being pumped.					
1958-06-20	52.00				
Note: The site was being pumped.					
1958-06-13	50.40				
Note: The site was being pumped.					
1958-06-06	50.40				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-05-30	48.70				
Note: The site was being pumped.					
1958-05-23	46.40				
Note: The site was being pumped.					
1958-05-16	43.10				
Note: The site was being pumped.					
1958-05-09	39.70				
Note: The site was being pumped.					
1958-05-02	37.40				
Note: The site was being pumped.					
1958-04-26	11.70		1958-04-19	5.00	
1958-04-11	4.30		1958-04-04	5.50	
1958-03-26	11.70		1958-03-21	7.90	
1958-03-14	9.30		1958-03-07	10.90	
1958-02-28	12.50		1958-02-21	14.40	
1958-02-14	17.70		1958-02-07	20.20	
1958-01-31	28.10				
1958-01-24	54.70				
Note: The site was being pumped.					
1958-01-17	47.10				
Note: The site was being pumped.					
1958-01-10	33.70		1958-01-03	23.20	
1957-12-27	26.20		1957-12-20	30.00	
1957-12-06	48.20				
1957-11-22	48.70				
Note: The site was being pumped.					
1957-11-15	36.40		1957-11-08	36.50	
1957-11-01	48.70		1957-10-25	50.20	
1957-10-18	49.10				
1957-10-11	64.80				
Note: The site was being pumped.					
1957-09-27	65.00				
Note: The site was being pumped.					
1957-09-20	64.30				
Note: The site was being pumped.					
1957-09-12	64.50				
Note: The site was being pumped.					
1957-09-06	64.00				
Note: The site was being pumped.					
1957-08-30	63.90				
Note: The site was being pumped.					
1957-08-23	63.40				
Note: The site was being pumped.					
1957-08-16	63.00				
Note: The site was being pumped.					
1957-08-09	62.90				
Note: The site was being pumped.					
1957-07-26	61.80				
Note: The site was being pumped.					
1957-07-19	61.00				
Note: The site was being pumped.					
1957-07-12	60.90				
Note: The site was being pumped.					
1957-07-05	59.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1957-06-28	59.90				
Note: The site was being pumped.					
1957-06-21	56.20				
Note: The site was being pumped.					
1957-06-14	53.70				
Note: The site was being pumped.					
1957-06-07	53.60				
Note: The site was being pumped.					
1957-05-31	49.90				
Note: The site was being pumped.					
1957-05-24	48.50				
Note: The site was being pumped.					
1957-05-17	50.00				
Note: The site was being pumped.					
1957-05-09	51.30				
Note: The site was being pumped.					
1957-05-03	48.40				
Note: The site was being pumped.					
1957-04-26	39.60				
Note: The site was being pumped.					
1957-04-19	47.40				
Note: The site was being pumped.					
1957-04-12	45.90				
Note: The site was being pumped.					
1957-04-05	23.30		1957-03-29	17.40	
1957-03-22	10.70		1957-03-15	12.90	
1957-03-08	13.60		1957-03-01	15.50	
1957-02-25	14.50		1957-02-18	15.00	
1957-02-08	17.50		1957-02-01	16.30	
1957-01-25	20.60		1957-01-18	25.40	
1957-01-11	30.00		1957-01-04	37.90	
1956-12-28	39.00		1956-12-21	43.10	
1956-12-14	45.30		1956-12-07	47.10	
1956-11-23	62.10				
Note: The site was being pumped.					
1956-11-16	62.90				
Note: The site was being pumped.					
1956-11-09	62.80				
Note: The site was being pumped.					
1956-11-02	61.90				
Note: The site was being pumped.					
1956-10-26	62.00				
Note: The site was being pumped.					
1956-10-20	62.00				
Note: The site was being pumped.					
1956-10-12	62.10				
Note: The site was being pumped.					
1956-10-05	62.50				
Note: The site was being pumped.					
1956-09-21	62.70				
Note: The site was being pumped.					
1956-09-14	62.00				
Note: The site was being pumped.					
1956-09-07	62.30				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1956-08-31	61.10				
	Note: The site was being pumped.				
1956-08-24	62.10				
	Note: The site was being pumped.				
1956-08-17	61.80				
	Note: The site was being pumped.				
1956-08-10	61.70				
	Note: The site was being pumped.				
1956-08-03	61.00				
	Note: The site was being pumped.				
1956-07-27	59.30				
	Note: The site was being pumped.				
1956-07-13	59.00				
	Note: The site was being pumped.				

C21
WSW
1/8 - 1/4 Mile
Lower

FED USGS

USGS40000140575

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340422117170404		
Monloc name:	001S004W22G012S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0727907
Longitude:	-117.2853203	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	986.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	82
Welldepth units:	ft	Wellholedepth:	82
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C22
WSW
1/8 - 1/4 Mile
Lower

FED USGS

USGS40000140574

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340422117170403		
Monloc name:	001S004W22G011S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0727907
Longitude:	-117.2853203	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	986.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported		
Welldepth units:	ft	Welldepth:	103
Wellholedepth units:	ft	Wellholedepth:	165

Ground-water levels, Number of Measurements: 186

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1963-04-07	61.20		1963-03-22	63.50	
1963-02-21	67.00		1963-01-28	65.10	
1962-06-01	70.30				
	Note: The site was being pumped.				
1962-05-18	66.50				
	Note: The site was being pumped.				
1962-05-04	66.20				
	Note: The site was being pumped.				
1962-04-20	59.00				
	Note: The site was being pumped.				
1962-04-06	49.30				
	Note: The site was being pumped.				
1962-03-16	46.80				
	Note: The site was being pumped.				
1962-03-02	48.60				
	Note: The site was being pumped.				
1962-02-16	53.60				
	Note: The site was being pumped.				
1962-02-02	53.10				
	Note: The site was being pumped.				
1962-01-27	54.90				
	Note: The site was being pumped.				
1960-06-10	64.20				
	Note: The site was being pumped.				
1960-06-03	63.00				
	Note: The site was being pumped.				
1960-05-27	61.90				
	Note: The site was being pumped.				
1960-05-20	56.10				
	Note: The site was being pumped.				
1960-05-13	57.30				
	Note: The site was being pumped.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1960-05-06	55.00				
Note: The site was being pumped.					
1960-04-29	55.00				
Note: The site was being pumped.					
1960-04-22	53.80				
Note: The site was being pumped.					
1960-04-15	55.00				
Note: The site was being pumped.					
1960-04-01	55.00				
Note: The site was being pumped.					
1960-03-25	49.30		1960-03-11	42.40	
1960-03-04	42.40		1960-02-25	42.40	
1960-02-19	44.70		1960-02-12	42.40	
1960-02-05	45.80		1960-01-29	47.00	
1960-01-22	38.90		1960-01-15	40.10	
1960-01-08	42.40		1959-12-28	43.40	
1959-12-11	66.50				
Note: The site was being pumped.					
1959-12-04	65.40				
Note: The site was being pumped.					
1959-11-27	65.30				
Note: The site was being pumped.					
1959-11-20	66.50				
Note: The site was being pumped.					
1959-11-13	66.50				
Note: The site was being pumped.					
1959-11-06	66.50				
Note: The site was being pumped.					
1959-10-30	66.50				
Note: The site was being pumped.					
1959-10-23	66.50				
Note: The site was being pumped.					
1959-10-16	65.40				
Note: The site was being pumped.					
1959-10-09	64.20				
Note: The site was being pumped.					
1959-10-02	64.20				
Note: The site was being pumped.					
1959-09-25	64.20				
Note: The site was being pumped.					
1959-09-04	61.90				
Note: The site was being pumped.					
1959-08-28	61.90				
Note: The site was being pumped.					
1959-08-21	64.20				
Note: The site was being pumped.					
1959-08-14	64.20				
Note: The site was being pumped.					
1959-08-07	61.90				
Note: The site was being pumped.					
1959-07-31	64.20				
Note: The site was being pumped.					
1959-07-24	64.20				
Note: The site was being pumped.					
1959-07-17	61.90				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-07-10	64.20				
Note: The site was being pumped.					
1959-06-27	62.10		1959-06-20	59.60	
1959-06-13	61.90		1959-05-29	60.70	
1959-05-22	59.60		1959-05-15	59.60	
1959-05-08	57.30		1959-05-01	57.30	
1959-04-24	55.00		1959-04-17	52.70	
1959-04-10	52.70		1959-04-03	50.30	
1959-03-27	34.50		1959-03-20	20.70	
1959-03-13	23.00		1959-03-06	23.00	
1959-02-27	27.60		1959-02-20	32.20	
1959-02-13	46.00		1959-02-06	39.10	
1959-01-30	39.10		1959-01-23	36.80	
1959-01-09	43.70		1959-01-02	44.80	
1958-12-26	56.10		1958-12-19	55.00	
1958-12-12	55.00		1958-12-05	46.00	
1958-11-28	50.00		1958-11-21	51.70	
1958-11-14	51.70		1958-11-07	50.60	
1958-10-31	52.90		1958-10-24	55.20	
1958-10-17	51.70		1958-10-10	60.70	
1958-10-03	58.40		1958-09-26	59.60	
1958-09-19	59.60		1958-09-12	59.60	
1958-09-05	59.60		1958-08-29	59.60	
1958-08-22	59.60		1958-08-15	58.40	
1958-08-08	57.30		1958-08-01	58.40	
1958-07-25	57.30		1958-07-11	55.00	
1958-07-04	52.70		1958-06-27	50.00	
1958-06-20	50.00		1958-06-13	48.00	
1958-06-06	55.00		1958-05-31	50.00	
1958-05-23	52.00		1958-05-16	50.00	
1958-05-09	43.00		1958-05-02	36.00	
1958-04-26	35.00		1958-04-19	36.00	
1958-04-11	30.00		1958-04-04	12.00	
1958-03-28	11.00		1958-03-21	12.00	
1958-03-14	18.00		1958-03-07	18.00	
1958-02-28	20.00		1958-02-14	32.00	
1958-02-07	20.00		1958-01-31	32.00	
1958-01-24	31.00		1958-01-17	50.00	
1958-01-10	32.00		1958-01-03	22.00	
1957-12-27	24.00		1957-12-20	24.00	
1957-12-06	46.00		1957-11-22	43.00	
1957-11-15	41.00		1957-11-08	48.00	
1957-11-01	50.00		1957-10-25	55.00	
1957-10-18	39.00		1957-10-11	62.00	
1957-09-27	62.00		1957-09-20	64.00	
1957-09-13	64.00		1957-09-06	62.00	
1957-08-30	62.00		1957-08-23	62.00	
1957-08-16	59.00		1957-08-02	59.00	
1957-07-26	57.00		1957-07-19	57.00	
1957-07-12	34.00		1957-07-05	36.00	
1957-06-28	36.00				
Note: The site was being pumped.					
1957-06-21	34.00				
Note: The site was being pumped.					
1957-06-14	34.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1957-06-07	34.00				
Note: The site was being pumped.					
1957-05-31	43.00				
Note: The site was being pumped.					
1957-05-24	16.00				
Note: The site was being pumped.					
1957-05-17	39.00				
Note: The site was being pumped.					
1957-05-10	24.00				
Note: The site was being pumped.					
1957-05-03	30.00				
Note: The site was being pumped.					
1957-04-26	22.00				
Note: The site was being pumped.					
1957-04-19	16.00				
Note: The site was being pumped.					
1957-04-12	30.00				
Note: The site was being pumped.					
1957-04-05	8.00		1957-03-30	8.00	
1957-03-22	63.00		1957-03-15	63.00	
1957-03-08	63.00		1957-03-01	63.00	
1957-02-25	63.00		1957-02-18	63.00	
1957-02-08	63.00		1957-02-01	63.00	
1957-01-25	42.00		1957-01-18	33.00	
1957-01-04	22.00		1956-12-28	23.00	
1956-12-21	31.00		1956-12-14	34.00	
1956-12-07	48.00		1956-11-30	40.00	
1956-11-23	43.00		1956-11-16	40.00	
1956-10-05	65.30				

F23
West
1/8 - 1/4 Mile
Lower

CA WELLS 925

Water System Information:

Prime Station Code: 01S/04W-22G19 S	User ID: WAT	
FRDS Number: 3310031088	County: Riverside	
District Number: 14	Station Type: WELL/AMBNT/MUN/INTAKE/SUPPLY	
Water Type: Well/Groundwater	Well Status: Agricultural/Irrigation Well	
Source Lat/Long: 340425.3 1171705.1	Precision: 10 Feet (1/10 Second)	
Source Name: THORNE WELL 08 - AGRICULTURAL		
System Number: 3310031		
System Name: Riverside, City of		
Organization That Operates System:		
3900 MAIN STREET		
RIVERSIDE, CA 92522		
Pop Served: 245000	Connections: 58586	
Area Served: RIVERSIDE		

D24
East
1/8 - 1/4 Mile
Higher

CA WELLS 926

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Water System Information:

Prime Station Code:	01S/04W-22H01 S	User ID:	WAT
FRDS Number:	3310031101	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340426.5 1171642.3	Precision:	10 Feet (1/10 Second)
Source Name:	WARREN WELL 02		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		

**C25
WSW
1/8 - 1/4 Mile
Lower**

CA WELLS CADW60000034367

Objectid:	34367
Latitude:	34.0725
Longitude:	-117.2854
Site code:	340725N1172854W001
State well numbe:	01S04W22G001S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino
Basin code:	'8-2.06'
Basin desc:	Bunker Hill
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000034367

**F26
WNW
1/8 - 1/4 Mile
Lower**

FED USGS USGS40000140620

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340429117170501		
Monloc name:	001S004W22B005S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0747351
Longitude:	-117.2855981	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	995.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	238
Construction date:	Not Reported	Wellholedepth:	238
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 362

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
-----			-----		
1970-03-31	79.50		1969-11-17	90.10	
1969-09-25	83.80		1969-01-03	100.00	
1968-05-24	98.20		1967-12-01	94.80	
1966-09-23	105.10				
Note: The site was being pumped.					
1966-08-19	104.10				
Note: The site was being pumped.					
1966-07-22	102.10				
Note: The site was being pumped.					
1966-06-24	92.90		1966-05-20	87.40	
1966-04-15	84.70		1966-03-11	79.50	
1966-02-18	30.00		1966-01-14	84.00	
1965-12-17	87.80		1965-11-19	92.30	
1965-10-22	99.20				
Note: The site was being pumped.					
1965-09-24	98.40				
Note: The site was being pumped.					
1965-08-20	97.60				
Note: The site was being pumped.					
1965-07-30	88.20				
1965-06-18	94.80				
Note: The site was being pumped.					
1965-05-14	90.10				
Note: The site was being pumped.					
1965-04-30	81.40		1965-04-15	79.30	
1965-04-02	84.00		1965-03-18	85.70	
1965-02-26	87.90		1965-01-22	84.90	
1965-01-08	84.50		1964-12-24	90.20	
1964-11-20	87.80				
1964-10-16	98.20				
Note: The site was being pumped.					
1964-09-18	98.00				
Note: The site was being pumped.					
1964-08-14	96.90				
Note: The site was being pumped.					
1964-07-03	91.90				
Note: The site was being pumped.					
1964-06-26	91.30				
Note: The site was being pumped.					
1964-06-12	90.10				
Note: The site was being pumped.					
1964-06-05	89.40				
Note: The site was being pumped.					
1964-05-15	86.70				
Note: The site was being pumped.					
1964-05-01	85.40				
Note: The site was being pumped.					
1964-04-17	82.70				
Note: The site was being pumped.					
1964-04-03	73.80				
1964-03-13	82.80				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1964-03-06	82.80				
Note: The site was being pumped.					
1964-02-14	63.40				
1964-02-07	78.40				
Note: The site was being pumped.					
1964-01-16	84.10				
Note: The site was being pumped.					
1964-01-03	77.10		1963-12-12	73.80	
1963-12-06	73.70				
1963-11-14	87.40				
Note: The site was being pumped.					
1963-11-07	78.90				
1963-10-17	88.40				
Note: The site was being pumped.					
1963-10-04	86.50				
Note: The site was being pumped.					
1963-09-13	91.50				
Note: The site was being pumped.					
1963-09-06	89.90				
Note: The site was being pumped.					
1963-08-16	90.20				
Note: The site was being pumped.					
1963-08-01	89.90				
Note: The site was being pumped.					
1963-07-12	87.60				
Note: The site was being pumped.					
1963-07-05	87.10				
Note: The site was being pumped.					
1963-06-28	86.10				
Note: The site was being pumped.					
1963-06-14	84.60				
Note: The site was being pumped.					
1963-05-31	84.10				
Note: The site was being pumped.					
1963-05-17	82.50				
Note: The site was being pumped.					
1963-05-03	78.90				
Note: The site was being pumped.					
1963-04-19	78.60				
Note: The site was being pumped.					
1963-04-05	76.00				
Note: The site was being pumped.					
1963-03-22	66.90				
1963-03-08	79.70				
Note: The site was being pumped.					
1963-02-21	70.10				
1963-02-08	86.70				
Note: The site was being pumped.					
1963-01-25	85.10				
Note: The site was being pumped.					
1963-01-11	85.90				
Note: The site was being pumped.					
1962-12-28	76.20				
1962-12-14	87.20				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1962-11-30	87.00				
Note: The site was being pumped.					
1962-11-16	86.80				
Note: The site was being pumped.					
1962-11-02	86.20				
Note: The site was being pumped.					
1962-10-19	87.10				
Note: The site was being pumped.					
1962-10-05	86.20				
Note: The site was being pumped.					
1962-09-28	87.30				
Note: The site was being pumped.					
1962-09-14	86.30				
Note: The site was being pumped.					
1962-08-31	84.80				
Note: The site was being pumped.					
1962-08-17	83.60				
Note: The site was being pumped.					
1962-08-03	82.20				
Note: The site was being pumped.					
1962-07-20	81.30				
Note: The site was being pumped.					
1962-07-06	79.80				
Note: The site was being pumped.					
1962-06-22	77.40		1962-06-01	72.50	
1962-05-18	72.30				
Note: The site was being pumped.					
1962-05-04	71.90				
Note: The site was being pumped.					
1962-04-20	64.80				
Note: The site was being pumped.					
1962-04-06	42.80		1962-03-16	41.30	
1962-03-02	44.80		1962-02-16	49.10	
1962-02-02	54.80				
1962-01-19	64.60				
Note: The site was being pumped.					
1962-01-05	72.40				
Note: The site was being pumped.					
1961-12-29	68.50				
Note: The site was being pumped.					
1961-12-15	62.00		1961-11-24	83.10	
1961-11-10	84.30				
1961-10-27	84.90				
Note: The site was being pumped.					
1961-10-13	84.20				
Note: The site was being pumped.					
1961-09-29	84.90				
Note: The site was being pumped.					
1961-09-15	83.80				
Note: The site was being pumped.					
1961-08-25	73.60		1961-08-11	76.40	
1961-07-28	75.50		1961-07-14	74.80	
1961-06-16	72.40				
Note: The site was being pumped.					
1961-06-02	71.40				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1961-05-19	70.80				
Note: The site was being pumped.					
1961-05-05	69.70				
Note: The site was being pumped.					
1961-04-14	69.40				
Note: The site was being pumped.					
1961-04-07	68.50				
Note: The site was being pumped.					
1961-03-17	69.70				
Note: The site was being pumped.					
1961-03-03	67.00				
Note: The site was being pumped.					
1961-02-17	68.70				
Note: The site was being pumped.					
1961-02-10	67.10				
Note: The site was being pumped.					
1961-01-20	69.80				
Note: The site was being pumped.					
1961-01-07	68.50				
Note: The site was being pumped.					
1960-12-16	66.30				
Note: The site was being pumped.					
1960-12-02	54.00				
1960-11-18	67.10				
Note: The site was being pumped.					
1960-11-04	69.90				
Note: The site was being pumped.					
1960-10-21	69.70				
Note: The site was being pumped.					
1960-10-07	70.60				
Note: The site was being pumped.					
1960-09-16	69.70				
Note: The site was being pumped.					
1960-09-03	69.30				
Note: The site was being pumped.					
1960-08-19	68.10				
Note: The site was being pumped.					
1960-08-05	68.50				
Note: The site was being pumped.					
1960-07-15	66.90				
Note: The site was being pumped.					
1960-07-01	65.60				
Note: The site was being pumped.					
1960-06-24	64.60		1960-06-17	63.20	
1960-06-10	62.80		1960-06-03	62.60	
1960-05-27	61.90		1960-05-20	60.50	
1960-05-13	59.80		1960-05-06	57.20	
1960-04-29	56.80		1960-04-22	58.40	
1960-04-15	49.40				
1960-04-08	54.60				
Note: The site was being pumped.					
1960-04-01	52.20				
Note: The site was being pumped.					
1960-03-25	29.30		1960-03-18	22.60	
1960-03-11	20.70		1960-03-04	20.50	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1960-02-26	22.10	
1960-02-12	25.50	
1960-01-29	44.40	
Note: The site was being pumped.		
1960-01-22	32.50	
1960-01-08	37.50	
1959-12-18	66.40	
Note: The site was being pumped.		
1959-12-11	66.50	
Note: The site was being pumped.		
1959-12-04	67.10	
Note: The site was being pumped.		
1959-11-27	66.90	
Note: The site was being pumped.		
1959-11-20	66.70	
Note: The site was being pumped.		
1959-11-13	67.70	
Note: The site was being pumped.		
1959-11-06	67.60	
Note: The site was being pumped.		
1959-10-30	68.10	
Note: The site was being pumped.		
1959-10-23	68.10	
Note: The site was being pumped.		
1959-10-16	67.90	
Note: The site was being pumped.		
1959-10-09	67.50	
Note: The site was being pumped.		
1959-10-02	67.10	
Note: The site was being pumped.		
1959-09-25	66.80	
Note: The site was being pumped.		
1959-09-18	67.40	
Note: The site was being pumped.		
1959-09-11	67.70	
Note: The site was being pumped.		
1959-09-04	67.50	
Note: The site was being pumped.		
1959-08-28	67.00	
Note: The site was being pumped.		
1959-08-21	66.90	
Note: The site was being pumped.		
1959-08-14	67.40	
Note: The site was being pumped.		
1959-08-07	65.70	
Note: The site was being pumped.		
1959-07-31	66.10	
Note: The site was being pumped.		
1959-07-24	65.80	
Note: The site was being pumped.		
1959-07-17	65.20	
Note: The site was being pumped.		
1959-07-10	64.70	
Note: The site was being pumped.		
1959-07-03	64.20	
Note: The site was being pumped.		

Date	Feet below Surface	Feet to Sealevel
1960-02-19	23.70	
1960-02-05	28.20	
1960-01-15	35.40	
1959-12-28	46.70	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-06-26	63.90				
Note: The site was being pumped.					
1959-06-19	63.20				
Note: The site was being pumped.					
1959-06-12	62.40				
Note: The site was being pumped.					
1959-06-05	61.80				
Note: The site was being pumped.					
1959-05-29	62.00				
Note: The site was being pumped.					
1959-05-22	61.00				
Note: The site was being pumped.					
1959-05-08	58.80				
Note: The site was being pumped.					
1959-05-01	58.20				
Note: The site was being pumped.					
1959-04-24	50.80				
Note: The site was being pumped.					
1959-04-17	56.10				
Note: The site was being pumped.					
1959-04-10	54.20				
Note: The site was being pumped.					
1959-04-03	51.40				
Note: The site was being pumped.					
1959-03-27	32.00		1959-03-20	22.50	
1959-03-13	24.30		1959-03-06	25.20	
1959-02-27	28.50		1959-02-20	34.10	
1959-02-13	55.10				
Note: The site was being pumped.					
1959-02-06	40.50		1959-01-30	38.70	
1959-01-23	37.90		1959-01-16	39.90	
1959-01-09	55.80				
Note: The site was being pumped.					
1959-01-02	39.30				
1958-12-26	60.30				
Note: The site was being pumped.					
1958-12-19	48.80		1958-12-12	50.50	
1958-12-05	46.00		1958-11-28	50.90	
1958-11-21	60.10				
Note: The site was being pumped.					
1958-11-14	60.90				
Note: The site was being pumped.					
1958-11-07	59.00				
Note: The site was being pumped.					
1958-10-31	60.80				
Note: The site was being pumped.					
1958-10-24	61.40				
Note: The site was being pumped.					
1958-10-17	60.40				
Note: The site was being pumped.					
1958-10-10	61.50				
Note: The site was being pumped.					
1958-10-03	60.80				
Note: The site was being pumped.					
1958-09-26	61.40				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-09-19	62.30				
Note: The site was being pumped.					
1958-09-12	61.30				
Note: The site was being pumped.					
1958-09-05	62.10				
Note: The site was being pumped.					
1958-08-22	40.40				
1958-08-15	61.80				
Note: The site was being pumped.					
1958-08-08	61.60				
Note: The site was being pumped.					
1958-08-01	61.50				
Note: The site was being pumped.					
1958-07-25	60.70				
Note: The site was being pumped.					
1958-07-11	59.40				
Note: The site was being pumped.					
1958-07-04	57.70				
Note: The site was being pumped.					
1958-06-27	56.40				
Note: The site was being pumped.					
1958-06-20	55.30				
Note: The site was being pumped.					
1958-06-13	53.60				
Note: The site was being pumped.					
1958-06-06	53.20				
Note: The site was being pumped.					
1958-05-30	52.90				
Note: The site was being pumped.					
1958-05-23	49.90				
Note: The site was being pumped.					
1958-05-16	48.20				
Note: The site was being pumped.					
1958-05-09	47.00				
Note: The site was being pumped.					
1958-05-02	43.40				
Note: The site was being pumped.					
1958-04-26	16.00				
Note: The site was being pumped.					
1958-04-19	8.80		1958-04-11	7.40	
1958-04-04	9.40		1958-03-28	10.80	
1958-03-21	11.60		1958-03-14	13.10	
1958-03-07	14.60		1958-02-28	16.10	
1958-02-21	18.10		1958-02-14	21.10	
1958-02-07	23.30		1958-01-31	30.90	
1958-01-24	56.90				
Note: The site was being pumped.					
1958-01-17	41.90				
Note: The site was being pumped.					
1958-01-10	31.90				
1958-01-03	40.10				
Note: The site was being pumped.					
1957-12-27	42.10				
Note: The site was being pumped.					
1957-12-20	34.90				
1957-12-06	60.10				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1957-11-22	54.90				
Note: The site was being pumped.					
1957-11-15	50.20				
Note: The site was being pumped.					
1957-11-08	39.00				
1957-11-01	57.60				
Note: The site was being pumped.					
1957-10-25	60.10				
Note: The site was being pumped.					
1957-10-18	50.40				
1957-10-11	67.10				
Note: The site was being pumped.					
1957-09-27	67.30		1957-09-20	66.80	
1957-09-13	66.80		1957-09-06	62.20	
1957-08-30	66.00				
Note: The site was being pumped.					
1957-08-23	65.60				
Note: The site was being pumped.					
1957-08-16	64.90				
Note: The site was being pumped.					
1957-08-09	64.50				
Note: The site was being pumped.					
1957-08-02	63.80				
Note: The site was being pumped.					
1957-07-26	64.00				
Note: The site was being pumped.					
1957-07-19	62.30				
Note: The site was being pumped.					
1957-07-12	62.80				
Note: The site was being pumped.					
1957-07-05	62.70				
Note: The site was being pumped.					
1957-06-28	62.40		1957-06-21	59.70	
1957-06-14	58.10		1957-06-07	57.90	
1957-05-31	55.10		1957-05-24	52.20	
1957-05-17	53.30		1957-05-10	56.00	
1957-05-03	53.60		1957-04-26	48.20	
1957-04-19	53.20		1957-04-12	52.10	
1957-04-05	25.40		1957-03-29	21.00	
1957-03-22	13.20		1957-03-15	15.60	
1957-03-08	16.20		1957-03-01	17.60	
1957-02-25	17.10		1957-02-18	17.60	
1957-02-08	19.80		1957-02-01	19.90	
1957-01-25	23.00		1957-01-18	28.30	
1957-01-11	32.90		1957-01-04	39.70	
1956-12-28	41.30				
1956-12-21	55.70				
Note: The site was being pumped.					
1956-12-14	56.50				
Note: The site was being pumped.					
1956-12-07	59.90				
Note: The site was being pumped.					
1956-11-23	64.90				
Note: The site was being pumped.					
1956-11-16	64.80				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1956-11-09	66.10				
	Note: The site was being pumped.				
1956-11-02	64.70				
	Note: The site was being pumped.				
1956-10-19	65.20				
	Note: The site was being pumped.				
1956-10-12	65.10				
	Note: The site was being pumped.				
1956-10-05	66.20				
	Note: The site was being pumped.				
1956-09-14	65.90				
	Note: The site was being pumped.				
1956-09-07	64.90				
	Note: The site was being pumped.				
1956-08-31	65.60				
	Note: The site was being pumped.				
1956-08-24	65.30				
	Note: The site was being pumped.				
1956-08-17	65.20				
	Note: The site was being pumped.				
1956-08-10	64.20				
	Note: The site was being pumped.				
1956-08-03	65.00				
	Note: The site was being pumped.				
1956-07-27	65.20				
	Note: The site was being pumped.				
1956-07-20	64.40				
	Note: The site was being pumped.				
1956-07-13	64.00				
	Note: The site was being pumped.				
1956-07-06	64.00				
	Note: The site was being pumped.				
1956-06-08	60.30				
	Note: The site was being pumped.				
1956-05-04	53.40				
	Note: The site was being pumped.				
1956-04-06	53.70				
	Note: The site was being pumped.				
1956-03-09	11.30		1956-02-06	15.90	
1956-01-06	35.30				
1955-12-09	38.60				
	Note: The site was being pumped.				
1955-11-11	63.00				
	Note: The site was being pumped.				
1955-10-07	64.70				
	Note: The site was being pumped.				
1955-09-09	66.10				
	Note: The site was being pumped.				
1955-08-05	62.50				
	Note: The site was being pumped.				
1955-07-08	61.20				
	Note: The site was being pumped.				
1955-06-03	55.40				
	Note: The site was being pumped.				
1955-05-06	32.50				
	Note: The site was being pumped.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1955-04-01	16.20		1955-03-04	5.50	
1955-01-07	7.80		1954-12-03	9.00	
1954-11-05	53.50				
Note: The site was being pumped.					
1954-10-01	55.00				
Note: The site was being pumped.					
1954-09-03	55.90				
Note: The site was being pumped.					
1954-08-06	53.80				
Note: The site was being pumped.					
1954-07-02	50.20				
Note: The site was being pumped.					
1954-06-04	45.30				
Note: The site was being pumped.					
1954-05-07	41.10				
Note: The site was being pumped.					
1954-04-23	35.40				
Note: The site was being pumped.					
1954-03-04	0.40		1954-02-05	2.50	
1954-01-02	22.00				
Note: The site was being pumped.					

**F27
WNW
1/8 - 1/4 Mile
Lower**

FED USGS USGS40000140621

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340429117170502		
Monloc name:	001S004W22B007S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0747351
Longitude:	-117.2855981	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	995.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	203
Welldepth units:	ft	Wellholedepth:	203
Wellholedepth units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 84

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-03-31	71.20				
Note: The site was being pumped.					
1969-11-24	82.50				
Note: The site was being pumped.					
1969-05-01	87.10				
Note: The site was being pumped.					
1969-01-03	104.50				
Note: The site was being pumped.					
1968-05-03	98.50				
Note: The site was being pumped.					
1967-05-05	80.50		1967-04-07	85.50	
1967-03-10	86.50		1967-02-03	82.50	
1966-12-30	86.50		1966-12-09	91.50	
1966-11-11	96.50		1966-10-14	96.50	
1965-06-25	101.00				
Note: The site was being pumped.					
1965-05-14	68.20		1965-04-09	77.30	
1965-03-19	81.00		1965-02-12	86.00	
1965-01-02	81.80				
1964-12-18	99.30				
Note: The site was being pumped.					
1964-11-13	91.00				
1964-10-20	105.50				
Note: The site was being pumped.					
1964-09-18	104.80				
Note: The site was being pumped.					
1964-08-14	103.30				
Note: The site was being pumped.					
1964-07-03	101.00				
Note: The site was being pumped.					
1964-06-26	99.30				
Note: The site was being pumped.					
1964-06-12	97.00				
Note: The site was being pumped.					
1964-06-05	96.90				
Note: The site was being pumped.					
1964-05-15	92.60				
Note: The site was being pumped.					
1964-05-01	91.90				
Note: The site was being pumped.					
1964-04-17	89.30				
Note: The site was being pumped.					
1964-04-03	67.60				
1964-03-13	92.30				
Note: The site was being pumped.					
1964-03-06	93.60				
Note: The site was being pumped.					
1964-02-14	84.60				
Note: The site was being pumped.					
1964-02-08	85.30				
Note: The site was being pumped.					
1964-01-17	91.90				
Note: The site was being pumped.					
1964-01-03	92.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1963-12-13	73.90				
1963-12-06	69.90				
	Note: The site was being pumped.				
1963-11-15	95.90				
	Note: The site was being pumped.				
1963-11-08	77.50				
1963-11-01	91.90				
	Note: The site was being pumped.				
1963-10-25	78.90				
1963-10-18	96.30				
	Note: The site was being pumped.				
1963-10-04	78.00				
1963-09-13	98.30				
	Note: The site was being pumped.				
1963-09-06	97.30				
	Note: The site was being pumped.				
1963-08-29					
	Note: The site was dry (no water level recorded).				
1963-08-16	97.30				
	Note: The site was being pumped.				
1963-08-01	97.60				
	Note: The site was being pumped.				
1963-07-18	79.70				
1963-07-12	95.70				
	Note: The site was being pumped.				
1963-07-04	94.90				
	Note: The site was being pumped.				
1963-06-27	93.80				
	Note: The site was being pumped.				
1963-06-20	92.40				
	Note: The site was being pumped.				
1963-06-13	76.40				
1963-06-06	91.10				
	Note: The site was being pumped.				
1963-05-23	89.20				
	Note: The site was being pumped.				
1963-05-09	88.50				
	Note: The site was being pumped.				
1963-04-25	64.10				
1963-04-11	84.30				
	Note: The site was being pumped.				
1963-03-29	59.80		1963-03-14	66.90	
1963-03-07	68.10		1963-03-01	62.20	
1963-02-14	66.60				
1963-01-31	89.90				
	Note: The site was being pumped.				
1963-01-17	89.80				
	Note: The site was being pumped.				
1963-01-03	88.70				
	Note: The site was being pumped.				
1962-12-29	73.80				
1962-12-20	80.00				
	Note: The site was being pumped.				
1962-12-06	88.90				
	Note: The site was being pumped.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1962-11-22	88.20				
Note: The site was being pumped.					
1962-11-08	90.60				
Note: The site was being pumped.					
1962-10-25	75.20		1962-10-11	76.20	
1962-09-28	89.20				
Note: The site was being pumped.					
1962-09-13	87.50				
Note: The site was being pumped.					
1962-08-30	97.80				
Note: The site was being pumped.					
1962-08-16	97.30				
Note: The site was being pumped.					
1962-08-02	87.70				
Note: The site was being pumped.					
1962-07-19	88.60				
Note: The site was being pumped.					
1962-07-05	89.60				
Note: The site was being pumped.					

**D28
East
1/8 - 1/4 Mile
Higher**

FED USGS

USGS40000140607

Org. Identifier:	USGS-CA			
Formal name:	USGS California Water Science Center			
Monloc Identifier:	USGS-340426117164101			
Monloc name:	001S004W22H001S			
Monloc type:	Well			
Monloc desc:	Not Reported			
Huc code:	18070203	Drainagearea value:	Not Reported	
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported	
Contrib drainagearea units:	Not Reported	Latitude:	34.0739018	
Longitude:	-117.2789312	Sourcemap scale:	24000	
Horiz Acc measure:	1	Horiz Acc measure units:	seconds	
Horiz Collection method:	Interpolated from map			
Horiz coord refsys:	NAD83	Vert measure val:	1003.00	
Vert measure units:	feet	Vertacc measure val:	10	
Vert accmeasure units:	feet			
Vertcollection method:	Interpolated from topographic map			
Vert coord refsys:	NGVD29	Countrycode:	US	
Aquifername:	California Coastal Basin aquifers			
Formation type:	Not Reported			
Aquifer type:	Not Reported			
Construction date:	19300101	Welldepth:	486	
Welldepth units:	ft	Wellholedepth:	Not Reported	
Wellholedepth units:	Not Reported			

Ground-water levels, Number of Measurements: 390

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-05-31	87.00		1969-11-28	91.50	
1969-01-03	102.50		1968-05-03	117.50	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1967-11-30	97.50		1967-09-08	128.00	
1967-08-11	100.00		1967-07-07	96.00	
1967-06-02	92.00		1967-05-05	87.00	
1967-04-07	92.00		1967-03-03	93.00	
1967-02-03	90.00		1967-01-06	93.00	
1966-12-02	101.00		1966-11-11	102.00	
1966-10-07	105.00		1966-09-30	105.00	
1966-08-20	141.00				
Note: The site was being pumped.					
1966-07-15	127.00				
Note: The site was being pumped.					
1966-06-10	97.00		1966-05-26	96.00	
1966-04-22	92.60		1966-03-25	88.00	
1966-02-25	81.00		1966-01-28	85.00	
1965-12-24	90.00		1965-11-19	98.60	
1965-10-15	100.00		1965-09-10	98.30	
1965-06-11	90.90		1965-05-07	79.00	
1965-04-16	81.00		1965-04-02	85.00	
1965-03-19	85.90		1965-03-05	89.60	
1965-02-19	91.90		1965-02-05	89.60	
1965-01-15	85.90		1965-01-02	87.30	
1964-12-18	92.00		1964-12-04	90.00	
1964-11-20	89.00		1964-11-06	96.50	
1964-10-23	95.00		1964-10-02	95.00	
1964-09-11	162.60				
Note: The site was being pumped.					
1964-08-11	160.00				
Note: The site was being pumped.					
1964-07-12	158.30				
Note: The site was being pumped.					
1964-06-19	152.00		1964-05-15	148.30	
1964-05-01	83.00				
1964-04-10	133.60				
Note: The site was being pumped.					
1964-03-13	82.00		1964-02-14	76.90	
1964-01-10	149.00				
Note: The site was being pumped.					
1963-12-13	81.60		1963-11-29	77.90	
1963-11-15	83.90		1963-11-01	83.60	
1963-10-18	85.60		1963-10-04	81.00	
1963-09-13	148.90				
Note: The site was being pumped.					
1963-08-30	149.90				
Note: The site was being pumped.					
1963-08-16	147.30				
Note: The site was being pumped.					
1963-08-01	147.30				
Note: The site was being pumped.					
1963-07-12	138.60				
Note: The site was being pumped.					
1963-06-21	148.90				
Note: The site was being pumped.					
1963-06-07	147.90				
Note: The site was being pumped.					
1963-05-24	77.00		1963-05-10	77.60	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1963-04-26	70.00		1963-03-29	61.00	
1963-03-15	146.00				
Note: The site was being pumped.					
1963-03-01	66.00		1963-02-08	78.00	
1963-01-26	134.00				
Note: The site was being pumped.					
1962-12-21	73.50				
1962-12-08	144.00				
Note: The site was being pumped.					
1962-11-23	142.00				
Note: The site was being pumped.					
1962-11-09	146.00				
Note: The site was being pumped.					
1962-10-26	148.30				
Note: The site was being pumped.					
1962-10-12	149.00				
Note: The site was being pumped.					
1962-09-28	78.00				
1962-09-14	144.00				
Note: The site was being pumped.					
1962-08-31	143.00				
Note: The site was being pumped.					
1962-08-17	142.60				
Note: The site was being pumped.					
1962-08-03	71.60				
1962-07-20	137.60				
Note: The site was being pumped.					
1962-06-29	141.00				
Note: The site was being pumped.					
1962-06-15	69.00		1962-06-01	68.30	
1962-05-18	65.50		1962-05-04	65.50	
1962-04-13	54.80		1962-03-30	41.00	
1962-03-16	44.00		1962-03-02	46.00	
1962-02-22	48.00				
1962-02-02	116.00				
Note: The site was being pumped.					
1962-01-05	71.00				
1961-12-22	97.00				
Note: The site was being pumped.					
1961-12-09	62.30		1961-11-17	75.00	
1961-11-03	120.00				
Note: The site was being pumped.					
1961-10-13	132.00				
Note: The site was being pumped.					
1961-09-29	139.80				
Note: The site was being pumped.					
1961-09-15	138.00				
Note: The site was being pumped.					
1961-09-01	73.00				
1961-08-18	139.00				
Note: The site was being pumped.					
1961-08-04	140.00				
Note: The site was being pumped.					
1961-07-14	141.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1961-06-30	110.00				
Note: The site was being pumped.					
1961-06-16	140.00				
Note: The site was being pumped.					
1961-06-02	63.00				
1961-05-12	123.00				
Note: The site was being pumped.					
1961-05-05	58.00		1961-04-14	60.60	
1961-03-31	55.00		1961-03-16	60.00	
1961-03-03	131.00		1961-02-17	60.60	
1961-02-03	50.00				
1961-01-20	133.90				
Note: The site was being pumped.					
1961-01-06	131.00				
Note: The site was being pumped.					
1960-12-23	132.90				
Note: The site was being pumped.					
1960-11-25	56.00		1960-11-11	56.00	
1960-10-28	139.00				
Note: The site was being pumped.					
1960-10-14	59.00				
1960-09-30	112.90				
Note: The site was being pumped.					
1960-09-14	62.00				
1960-09-02	136.90				
Note: The site was being pumped.					
1960-08-19	138.60				
Note: The site was being pumped.					
1960-08-05	131.00				
Note: The site was being pumped.					
1960-07-15	131.00				
Note: The site was being pumped.					
1960-07-01	134.90				
Note: The site was being pumped.					
1960-06-24	133.00				
Note: The site was being pumped.					
1960-06-10	52.90				
1960-05-27	134.80				
Note: The site was being pumped.					
1960-05-20	123.00				
Note: The site was being pumped.					
1960-04-29	42.80				
1960-04-15	123.80				
Note: The site was being pumped.					
1960-04-01	121.30				
Note: The site was being pumped.					
1960-03-18	110.50				
Note: The site was being pumped.					
1960-03-04	20.00		1960-02-19	23.30	
1960-01-29	28.00		1960-01-15	32.00	
1960-01-03	37.00		1959-12-18	56.80	
1959-12-04	137.00				
Note: The site was being pumped.					
1959-11-13	101.80				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-11-02	118.80				
Note: The site was being pumped.					
1959-10-19	136.30				
Note: The site was being pumped.					
1959-10-02	56.00		1959-09-25	56.80	
1959-09-18	56.00				
1959-09-11	105.00				
Note: The site was being pumped.					
1959-09-04	111.00				
Note: The site was being pumped.					
1959-08-28	109.00				
Note: The site was being pumped.					
1959-08-21	139.00				
Note: The site was being pumped.					
1959-08-14	139.30				
Note: The site was being pumped.					
1959-08-07	53.00				
1959-07-31	140.50				
Note: The site was being pumped.					
1959-07-24	140.30				
Note: The site was being pumped.					
1959-07-17	54.00				
1959-07-10	139.80				
Note: The site was being pumped.					
1959-07-03	139.80				
Note: The site was being pumped.					
1959-06-26	53.60				
1959-06-19	138.60				
Note: The site was being pumped.					
1959-06-12	139.90				
Note: The site was being pumped.					
1959-06-05	138.60				
Note: The site was being pumped.					
1959-05-22	116.00				
Note: The site was being pumped.					
1959-05-15	102.00				
Note: The site was being pumped.					
1959-05-01	44.90				
1959-04-24	113.00				
Note: The site was being pumped.					
1959-04-17	42.60				
1959-04-10	114.00				
Note: The site was being pumped.					
1959-03-27	108.00				
Note: The site was being pumped.					
1959-03-13	21.30		1959-02-20	25.00	
1959-02-06	43.30		1959-01-23	38.80	
1959-01-02	41.60				
1958-12-19	117.30				
Note: The site was being pumped.					
1958-12-05	46.90				
1958-11-21	118.00				
Note: The site was being pumped.					
1958-11-07	127.30				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-10-24	48.90				
1958-10-17	124.90				
Note: The site was being pumped.					
1958-10-10	49.60				
1958-10-03	121.30				
Note: The site was being pumped.					
1958-09-26	118.00				
Note: The site was being pumped.					
1958-09-19	126.00				
Note: The site was being pumped.					
1958-09-13	121.00				
Note: The site was being pumped.					
1958-09-05	126.60				
Note: The site was being pumped.					
1958-08-29	126.00				
Note: The site was being pumped.					
1958-08-22	122.00				
Note: The site was being pumped.					
1958-08-16	119.90				
Note: The site was being pumped.					
1958-08-08	118.00				
Note: The site was being pumped.					
1958-08-01	129.60				
Note: The site was being pumped.					
1958-07-25	130.00				
Note: The site was being pumped.					
1958-07-18	126.00				
Note: The site was being pumped.					
1958-07-11	118.00				
Note: The site was being pumped.					
1958-07-04	124.00				
Note: The site was being pumped.					
1958-06-27	112.00				
Note: The site was being pumped.					
1958-06-20	118.80				
Note: The site was being pumped.					
1958-06-13	119.80				
Note: The site was being pumped.					
1958-06-06	118.80				
Note: The site was being pumped.					
1958-05-30	115.80				
Note: The site was being pumped.					
1958-05-23	116.00				
Note: The site was being pumped.					
1958-05-16	115.00				
Note: The site was being pumped.					
1958-05-09	33.80		1958-04-25	17.00	
1958-04-10	8.30		1958-03-29	8.50	
1958-03-14	13.30		1958-02-21	18.30	
1958-02-07	22.80		1958-01-24	44.00	
1958-01-13	32.50		1957-12-27	26.80	
1957-12-13	126.00				
Note: The site was being pumped.					
1957-11-29	49.00		1957-11-15	35.30	
1957-11-01	44.30				
1957-10-18	109.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1957-10-04	55.80				
1957-09-28	137.80				
	Note: The site was being pumped.				
1957-09-20	136.50				
	Note: The site was being pumped.				
1957-09-13	140.30				
	Note: The site was being pumped.				
1957-09-06	138.80				
	Note: The site was being pumped.				
1957-08-30	105.80				
	Note: The site was being pumped.				
1957-08-25	54.80				
1957-08-23	105.00				
	Note: The site was being pumped.				
1957-08-16	105.00				
	Note: The site was being pumped.				
1957-08-09	101.00				
	Note: The site was being pumped.				
1957-08-02	102.00				
	Note: The site was being pumped.				
1957-07-26	105.50				
	Note: The site was being pumped.				
1957-07-19	104.30				
	Note: The site was being pumped.				
1957-07-12	104.00				
	Note: The site was being pumped.				
1957-07-05	102.30				
	Note: The site was being pumped.				
1957-06-28	109.50				
	Note: The site was being pumped.				
1957-06-21	47.50				
1957-06-12	119.60				
	Note: The site was being pumped.				
1957-05-25	97.00				
	Note: The site was being pumped.				
1957-05-10	147.80		1957-05-08	42.50	
1957-04-28	34.00		1957-04-26	32.50	
1957-04-16	138.00				
	Note: The site was being pumped.				
1957-04-12	142.50				
	Note: The site was being pumped.				
1957-04-01	100.30				
	Note: The site was being pumped.				
1957-03-15	99.30				
	Note: The site was being pumped.				
1957-03-01	15.00		1957-02-15	16.80	
1957-02-04	16.50		1957-01-21	22.40	
1957-01-04	42.50		1956-12-14	46.00	
1956-11-30	99.30				
	Note: The site was being pumped.				
1956-11-16	52.30		1956-11-02	50.50	
1956-10-19	51.30				
1956-09-21	100.00				
	Note: The site was being pumped.				
1956-09-07	99.60				
	Note: The site was being pumped.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1956-08-24	100.30				
Note: The site was being pumped.					
1956-08-10	99.00				
Note: The site was being pumped.					
1956-07-27	49.30				
1956-07-13	98.30				
Note: The site was being pumped.					
1956-06-29	102.60				
Note: The site was being pumped.					
1956-06-15	48.80		1956-06-05	45.80	
1954-04-01	3.00		1954-03-01	2.00	
1954-02-01	1.00		1954-01-04	20.90	
1953-12-01	25.10		1953-07-01	31.10	
1953-05-01	11.60		1953-03-02	12.30	
1953-02-02	10.40		1953-01-05	10.40	
1952-12-01	8.10		1952-05-01	9.20	
1952-04-01	17.30		1952-03-03	6.90	
1952-02-01	13.90		1952-01-02	9.20	
1951-12-03	19.20		1951-11-01	24.40	
1951-08-15	20.80		1951-05-01	8.90	
1951-03-01	4.30		1951-02-01	8.10	
1951-01-02	5.30		1950-12-01	4.90	
1950-11-15	10.40		1950-10-02	15.40	
1950-09-15	21.10		1950-05-01	5.10	
1950-04-14	1.10		1950-03-01	24.30	
1950-02-01	18.50		1950-01-03	9.20	
1949-12-01	1.30		1949-11-01	6.90	
1949-10-01	98.30				
Note: The site was being pumped.					
1949-09-01	98.10				
Note: The site was being pumped.					
1949-08-01	98.40				
Note: The site was being pumped.					
1949-07-01	97.50				
Note: The site was being pumped.					
1949-06-01	98.20				
Note: The site was being pumped.					
1949-05-16	2.20		1949-04-01	8.10	
1949-03-01	27.70		1949-02-01	30.00	
1949-01-14	11.60		1948-12-01	2.70	
1948-10-01	97.70				
Note: The site was being pumped.					
1948-09-15	97.90				
Note: The site was being pumped.					
1948-08-02	97.80				
Note: The site was being pumped.					
1948-07-01	97.40				
Note: The site was being pumped.					
1948-06-01	2.70		1948-05-01	0.40	
1948-04-01	11.60		1948-02-02	8.10	
1948-01-02	6.90		1947-12-01	3.50	
1947-11-01	0.40		1947-10-01	4.50	
1947-06-02	4.60		1947-04-01	8.10	
1947-03-03	9.20		1947-02-01	16.20	
1947-01-02	27.70		1946-12-02	26.60	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1946-11-01	6.90				
1946-07-01	131.00				
Note: The site was being pumped.					
1946-06-01	27.50		1946-05-01	4.60	
1946-04-01	11.60		1946-03-01	24.30	
1946-02-01	6.90		1946-01-15	25.40	
1945-12-14	6.90		1945-11-01	5.80	
1945-10-01	124.00				
1945-09-04	121.00				
Note: The site was being pumped.					
1945-08-01	125.00				
Note: The site was being pumped.					
1945-07-02	128.00				
Note: The site was being pumped.					
1945-06-01	9.20		1945-05-01	6.90	
1945-04-02	28.90		1945-03-01	27.70	
1945-02-01	13.90		1945-01-02	18.50	
1944-12-01	23.10		1944-11-01	3.50	
1944-07-01	101.50				
Note: The site was being pumped.					
1944-06-01	5.80		1944-05-17	5.80	
1944-04-01	25.40		1944-03-02	28.90	
1944-02-16	27.70		1944-01-02	25.40	
1943-12-01	4.60		1943-11-01	6.90	
1943-10-01	99.50				
Note: The site was being pumped.					
1943-09-15	11.00				
1943-08-13	104.00				
Note: The site was being pumped.					
1943-07-15	106.00				
Note: The site was being pumped.					
1943-06-01	6.90		1943-05-01	17.30	
1943-04-02	30.00		1943-03-02	27.70	
1943-02-01	25.40		1943-01-15	6.90	
1942-12-16	9.20				
1942-08-03	106.00				
Note: The site was being pumped.					
1942-07-16	108.00				
Note: The site was being pumped.					
1940-10-05	5.00		1940-09-03	11.00	
1940-08-01	108.00				
Note: The site was being pumped.					
1940-07-16	8.00		1939-09-02	3.00	
1939-08-01	2.00				
1939-07-15	106.00				
Note: The site was being pumped.					
1939-06-30	2.00		1939-06-16	1.00	

**F29
WSW
1/8 - 1/4 Mile
Lower**

FED USGS USGS40000140576

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340422117170601		
Monloc name:	001S004W22G014S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0727907
Longitude:	-117.2858759	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	985.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19360101	Welldepth:	988
Welldepth units:	ft	Wellholedepth:	988
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 540

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-04-02	90.20		1969-01-03	104.70	
1966-09-23	106.60				
Note: The site was being pumped.					
1966-08-26	105.60				
Note: The site was being pumped.					
1966-07-29	102.10		1966-06-10	97.00	
1966-05-20	94.00		1966-04-15	90.90	
1966-03-11	84.10		1966-02-18	85.20	
1966-01-21	89.10		1965-12-23	86.90	
1965-11-19	96.60				
1965-10-22	102.00				
Note: The site was being pumped.					
1965-09-17	101.40				
Note: The site was being pumped.					
1965-08-20	101.00				
Note: The site was being pumped.					
1965-07-30	96.60				
1965-06-18	101.20				
Note: The site was being pumped.					
1965-05-14	98.30				
Note: The site was being pumped.					
1965-04-15	87.40		1965-04-01	91.30	
1965-03-18	94.50		1965-02-26	94.90	
1965-01-15	90.20		1964-12-31	94.20	
1964-11-27	94.50				
1964-10-16	101.10				
Note: The site was being pumped.					
1964-09-18	101.60				
Note: The site was being pumped.					
1964-08-14	103.50				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1964-07-03	96.10				
1964-06-26	96.00				
Note: The site was being pumped.					
1964-06-12	94.80				
Note: The site was being pumped.					
1964-06-05	96.40				
Note: The site was being pumped.					
1964-05-15	93.10				
Note: The site was being pumped.					
1964-05-01	91.80				
Note: The site was being pumped.					
1964-04-17	87.90				
Note: The site was being pumped.					
1964-04-03	80.00		1964-03-13	80.90	
1964-03-06	90.30				
Note: The site was being pumped.					
1964-02-14	77.90		1964-02-07	77.80	
1964-01-16	82.30		1964-01-03	82.30	
1963-12-12	79.10		1963-12-06	81.80	
1963-11-14	86.10				
1963-11-07	85.60				
Note: The site was being pumped.					
1963-10-17	94.80				
Note: The site was being pumped.					
1963-10-04	92.40				
Note: The site was being pumped.					
1963-09-13	95.90				
Note: The site was being pumped.					
1963-09-06	96.40				
Note: The site was being pumped.					
1963-08-16	96.80				
Note: The site was being pumped.					
1963-08-02	96.40				
Note: The site was being pumped.					
1963-07-12	93.90				
Note: The site was being pumped.					
1963-07-05	93.20				
Note: The site was being pumped.					
1963-06-28	92.30				
Note: The site was being pumped.					
1963-06-14	90.90				
Note: The site was being pumped.					
1963-05-31	89.30				
Note: The site was being pumped.					
1963-05-17	87.90				
Note: The site was being pumped.					
1963-05-03	84.20				
Note: The site was being pumped.					
1963-04-19	84.20				
Note: The site was being pumped.					
1963-04-05	79.40				
Note: The site was being pumped.					
1963-03-22	73.30		1963-03-08	73.60	
1963-02-21	76.50				
1963-02-08	91.50				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1963-01-25	91.20				
Note: The site was being pumped.					
1963-01-11	91.40				
Note: The site was being pumped.					
1962-12-28	90.90				
Note: The site was being pumped.					
1962-12-14	92.50				
Note: The site was being pumped.					
1962-11-30	85.70				
1962-11-16	94.50				
Note: The site was being pumped.					
1962-11-02	95.20				
Note: The site was being pumped.					
1962-10-19	95.20				
Note: The site was being pumped.					
1962-10-05	94.40				
Note: The site was being pumped.					
1962-09-21	94.40				
Note: The site was being pumped.					
1962-09-07	93.80				
Note: The site was being pumped.					
1962-08-24	91.60				
Note: The site was being pumped.					
1962-08-10	91.20				
Note: The site was being pumped.					
1962-07-27	89.20				
Note: The site was being pumped.					
1962-07-13	87.70				
Note: The site was being pumped.					
1962-06-29	85.90				
Note: The site was being pumped.					
1962-06-15	84.10				
Note: The site was being pumped.					
1962-06-01	80.20				
Note: The site was being pumped.					
1962-05-18	79.40				
Note: The site was being pumped.					
1962-05-04	79.20				
Note: The site was being pumped.					
1962-04-20	67.10				
Note: The site was being pumped.					
1962-04-06	59.70				
Note: The site was being pumped.					
1962-03-16	43.10		1962-03-02	47.60	
1962-02-16	53.60		1962-02-02	59.80	
1962-01-19	82.00				
Note: The site was being pumped.					
1962-01-05	78.10				
Note: The site was being pumped.					
1961-12-29	63.80		1961-12-15	70.30	
1961-11-24	94.00		1961-11-09	94.20	
1961-10-27	95.00				
Note: The site was being pumped.					
1961-10-13	94.70				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1961-09-29	94.50				
1961-09-15	94.10				
Note: The site was being pumped.					
1961-08-25	94.00		1961-08-11	93.80	
1961-07-28	92.30		1961-07-14	92.40	
1961-06-16	89.00				
Note: The site was being pumped.					
1961-06-02	87.40				
Note: The site was being pumped.					
1961-05-19	86.70				
Note: The site was being pumped.					
1961-05-05	76.20				
Note: The site was being pumped.					
1961-04-14	83.30				
Note: The site was being pumped.					
1961-04-07	84.20				
Note: The site was being pumped.					
1961-03-17	83.70				
Note: The site was being pumped.					
1961-03-03	81.80				
Note: The site was being pumped.					
1961-02-17	81.30				
Note: The site was being pumped.					
1961-02-10	80.10				
Note: The site was being pumped.					
1961-01-20	84.30				
Note: The site was being pumped.					
1961-01-06	66.50				
1960-12-16	77.10				
Note: The site was being pumped.					
1960-12-02	62.10				
1960-11-18	77.60				
Note: The site was being pumped.					
1960-11-04	79.70				
Note: The site was being pumped.					
1960-10-14	70.20				
1960-10-07	79.50				
Note: The site was being pumped.					
1960-09-16	79.30				
Note: The site was being pumped.					
1960-09-02	78.00				
Note: The site was being pumped.					
1960-08-19	78.30				
Note: The site was being pumped.					
1960-08-05	77.60				
Note: The site was being pumped.					
1960-07-15	75.80				
Note: The site was being pumped.					
1960-07-01	74.50				
Note: The site was being pumped.					
1960-06-24	73.40				
Note: The site was being pumped.					
1960-06-17	71.40				
Note: The site was being pumped.					
1960-06-10	71.50				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1960-06-03	71.40				
Note: The site was being pumped.					
1960-05-27	70.20				
Note: The site was being pumped.					
1960-05-20	68.40				
Note: The site was being pumped.					
1960-05-13	64.70				
Note: The site was being pumped.					
1960-05-06	64.70				
Note: The site was being pumped.					
1960-04-29	64.60				
Note: The site was being pumped.					
1960-04-22	66.30				
Note: The site was being pumped.					
1960-04-15	65.80				
Note: The site was being pumped.					
1960-04-08	63.90				
Note: The site was being pumped.					
1960-04-01	60.20				
Note: The site was being pumped.					
1960-03-25	30.80		1960-03-18	23.60	
1960-03-11	21.10		1960-03-04	21.30	
1960-02-26	23.00		1960-02-19	24.10	
1960-02-12	26.70		1960-02-05	29.10	
1960-01-29	32.70		1960-01-22	35.70	
1960-01-15	40.90		1960-01-08	43.40	
1959-12-28	53.80				
1959-12-18	78.40				
Note: The site was being pumped.					
1959-12-11	78.80				
Note: The site was being pumped.					
1959-12-04	78.40				
Note: The site was being pumped.					
1959-11-27	78.20				
Note: The site was being pumped.					
1959-11-20	78.20				
Note: The site was being pumped.					
1959-11-13	79.80				
Note: The site was being pumped.					
1959-11-06	79.10				
Note: The site was being pumped.					
1959-10-30	79.60				
Note: The site was being pumped.					
1959-10-23	79.60				
Note: The site was being pumped.					
1959-10-16	79.80				
Note: The site was being pumped.					
1959-10-09	79.50				
Note: The site was being pumped.					
1959-10-02	79.30				
Note: The site was being pumped.					
1959-09-25	79.60				
Note: The site was being pumped.					
1959-09-18	79.90				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-09-11	80.60				
Note: The site was being pumped.					
1959-09-04	80.00				
Note: The site was being pumped.					
1959-08-28	79.60				
Note: The site was being pumped.					
1959-08-21	79.30				
Note: The site was being pumped.					
1959-08-14	80.00				
Note: The site was being pumped.					
1959-08-07	79.00				
Note: The site was being pumped.					
1959-07-31	78.90				
Note: The site was being pumped.					
1959-07-24	78.30				
Note: The site was being pumped.					
1959-07-17	78.00				
Note: The site was being pumped.					
1959-07-10	78.20				
Note: The site was being pumped.					
1959-07-03	77.70				
Note: The site was being pumped.					
1959-06-27	76.80				
Note: The site was being pumped.					
1959-06-20	75.50				
Note: The site was being pumped.					
1959-06-13	74.60				
Note: The site was being pumped.					
1959-06-06	74.20				
Note: The site was being pumped.					
1959-05-29	73.80				
Note: The site was being pumped.					
1959-05-22	75.20				
Note: The site was being pumped.					
1959-05-15	74.40				
Note: The site was being pumped.					
1959-05-08	73.30				
Note: The site was being pumped.					
1959-05-01	72.30				
Note: The site was being pumped.					
1959-04-24	68.50				
Note: The site was being pumped.					
1959-04-17	69.90				
Note: The site was being pumped.					
1959-04-10	70.00				
Note: The site was being pumped.					
1959-04-03	64.10				
Note: The site was being pumped.					
1959-03-27	33.60		1959-03-20	24.40	
1959-03-13	26.30		1959-03-06	27.50	
1959-02-27	31.60		1959-02-20	37.80	
1959-02-13	51.30		1959-02-06	51.40	
1959-01-30	43.50		1959-01-23	43.20	
1959-01-16	46.00		1959-01-09	48.60	
1959-01-02	46.40		1958-12-26	56.20	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1958-12-19	55.90	
1958-12-05	54.00	
1958-11-21	74.40	
Note: The site was being pumped.		
1958-11-14	74.90	
Note: The site was being pumped.		
1958-11-07	74.40	
Note: The site was being pumped.		
1958-10-31	75.50	
Note: The site was being pumped.		
1958-10-24	75.70	
Note: The site was being pumped.		
1958-10-17	74.80	
Note: The site was being pumped.		
1958-10-10	74.90	
Note: The site was being pumped.		
1958-10-03	75.30	
Note: The site was being pumped.		
1958-09-26	76.20	
Note: The site was being pumped.		
1958-09-19	76.50	
Note: The site was being pumped.		
1958-09-12	75.70	
Note: The site was being pumped.		
1958-09-05	75.80	
Note: The site was being pumped.		
1958-08-29	75.10	
Note: The site was being pumped.		
1958-08-22	74.60	
Note: The site was being pumped.		
1958-08-15	75.10	
Note: The site was being pumped.		
1958-08-08	77.60	
Note: The site was being pumped.		
1958-08-01	77.70	
Note: The site was being pumped.		
1958-07-25	76.50	
Note: The site was being pumped.		
1958-07-11	74.90	
Note: The site was being pumped.		
1958-07-04	73.00	
Note: The site was being pumped.		
1958-06-27	72.00	
Note: The site was being pumped.		
1958-06-20	71.00	
Note: The site was being pumped.		
1958-06-13	69.10	
Note: The site was being pumped.		
1958-06-06	68.90	
Note: The site was being pumped.		
1958-05-30	66.50	
Note: The site was being pumped.		
1958-05-23	64.00	
Note: The site was being pumped.		
1958-05-16	61.50	
Note: The site was being pumped.		

Date	Feet below Surface	Feet to Sealevel
1958-12-12	57.50	
1958-11-28	57.90	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-05-09	59.20				
Note: The site was being pumped.					
1958-05-02	45.30				
Note: The site was being pumped.					
1958-04-26	13.70		1958-04-19	8.60	
1958-04-11	7.00		1958-04-04	9.30	
1958-03-28	10.80		1958-03-21	11.60	
1958-03-14	13.30		1958-03-07	15.00	
1958-02-28	16.80		1958-02-21	19.00	
1958-02-14	22.80		1958-02-07	25.20	
1958-01-31	33.60				
1958-01-24	70.50				
Note: The site was being pumped.					
1958-01-17	65.40				
Note: The site was being pumped.					
1958-01-10	58.60				
Note: The site was being pumped.					
1958-01-03	28.50		1957-12-27	31.80	
1957-12-20	37.80		1957-12-06	56.40	
1957-11-22	66.00				
Note: The site was being pumped.					
1957-11-08	50.70		1957-11-01	56.20	
1957-10-25	58.30		1957-10-18	59.40	
1957-10-11	79.70				
Note: The site was being pumped.					
1957-09-27	79.10				
Note: The site was being pumped.					
1957-09-20	78.80				
Note: The site was being pumped.					
1957-09-13	78.50				
Note: The site was being pumped.					
1957-09-06	78.00				
Note: The site was being pumped.					
1957-08-30	77.60				
Note: The site was being pumped.					
1957-08-23	77.00				
Note: The site was being pumped.					
1957-08-16	76.40				
Note: The site was being pumped.					
1957-08-09	76.40				
Note: The site was being pumped.					
1957-07-26	75.10				
Note: The site was being pumped.					
1957-07-19	74.30				
Note: The site was being pumped.					
1957-07-12	73.70				
Note: The site was being pumped.					
1957-07-05	74.20				
Note: The site was being pumped.					
1957-06-28	72.40				
Note: The site was being pumped.					
1957-06-21	70.60				
Note: The site was being pumped.					
1957-06-14	68.90				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1957-06-07	68.20				
	Note: The site was being pumped.				
1957-05-31	71.80				
	Note: The site was being pumped.				
1957-05-24	62.40				
	Note: The site was being pumped.				
1957-05-17	62.90				
	Note: The site was being pumped.				
1957-05-10	65.30				
	Note: The site was being pumped.				
1957-05-03	62.60				
	Note: The site was being pumped.				
1957-04-26	54.80				
	Note: The site was being pumped.				
1957-04-19	62.80				
	Note: The site was being pumped.				
1957-04-12	61.10				
	Note: The site was being pumped.				
1957-04-05	27.90		1957-03-29	20.00	
1957-03-22	13.20		1957-03-15	15.00	
1957-03-08	15.90		1957-03-01	18.00	
1957-02-25	16.50		1957-02-18	18.10	
1957-02-08	21.00		1957-02-01	22.80	
1957-01-25	25.00		1957-01-18	31.60	
1957-01-11	35.80		1957-01-04	45.10	
1956-12-28	45.70		1956-12-21	51.70	
1956-12-14	52.80		1956-12-07	50.10	
1956-11-30	87.50				
	Note: The site was being pumped.				
1956-11-23	77.00				
	Note: The site was being pumped.				
1956-11-16	77.80				
	Note: The site was being pumped.				
1956-11-09	77.80				
	Note: The site was being pumped.				
1956-11-02	77.00				
	Note: The site was being pumped.				
1956-10-26	77.30				
	Note: The site was being pumped.				
1956-10-12	77.20				
	Note: The site was being pumped.				
1956-10-05	77.10				
	Note: The site was being pumped.				
1956-09-28	78.20				
	Note: The site was being pumped.				
1956-09-21	78.10				
	Note: The site was being pumped.				
1956-09-14	77.90				
	Note: The site was being pumped.				
1956-09-07	77.60				
	Note: The site was being pumped.				
1956-08-31	76.90				
	Note: The site was being pumped.				
1956-08-17	76.80				
	Note: The site was being pumped.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1956-08-10	76.20				
Note: The site was being pumped.					
1956-08-03	75.90				
Note: The site was being pumped.					
1956-07-27	75.10				
Note: The site was being pumped.					
1956-07-20	75.00				
Note: The site was being pumped.					
1956-07-13	74.00				
Note: The site was being pumped.					
1956-07-06	73.60				
Note: The site was being pumped.					
1956-06-08	72.70				
Note: The site was being pumped.					
1956-05-04	62.90				
Note: The site was being pumped.					
1956-04-06	63.50				
Note: The site was being pumped.					
1956-03-02	7.30		1956-02-06	16.30	
1956-01-06	63.90				
Note: The site was being pumped.					
1955-12-09	62.00				
Note: The site was being pumped.					
1955-11-11	75.40				
Note: The site was being pumped.					
1955-10-07	76.70				
Note: The site was being pumped.					
1955-09-09	77.90				
Note: The site was being pumped.					
1955-08-05	76.30				
Note: The site was being pumped.					
1955-07-08	76.10				
Note: The site was being pumped.					
1955-06-10	73.20				
Note: The site was being pumped.					
1955-05-06	63.90				
Note: The site was being pumped.					
1955-04-01	17.80		1955-03-04	5.70	
1955-02-04	1.40		1955-01-07	9.50	
1954-11-05	74.80		1954-10-01	75.70	
1954-09-03	75.40		1954-08-06	73.30	
1954-07-02	69.60		1954-06-04	64.90	
1954-05-07	62.00		1954-04-23	57.40	
1954-03-12	4.90		1954-02-05	2.90	
1954-01-08	22.90				
1953-11-06	69.00				
Note: The site was being pumped.					
1953-10-09	70.70				
Note: The site was being pumped.					
1953-09-04	73.40				
Note: The site was being pumped.					
1953-08-07	71.90				
Note: The site was being pumped.					
1953-07-03	67.80				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1953-06-05	63.10				
Note: The site was being pumped.					
1953-05-01	14.10				
1953-04-03	56.90				
Note: The site was being pumped.					
1953-03-06	6.30		1953-02-06	6.80	
1953-01-09	5.70		1952-12-05	0.60	
1952-11-07	89.90				
Note: The site was being pumped.					
1952-10-03	66.00				
Note: The site was being pumped.					
1952-09-05	84.30				
Note: The site was being pumped.					
1952-08-01	62.80				
Note: The site was being pumped.					
1952-07-04	62.30				
Note: The site was being pumped.					
1952-06-06	57.20				
Note: The site was being pumped.					
1952-05-02	2.30		1952-04-04	6.80	
1952-03-07	1.10		1952-02-08	4.50	
1951-12-07	15.40				
1951-11-02	65.60				
Note: The site was being pumped.					
1951-10-05	66.30				
Note: The site was being pumped.					
1951-09-07	65.80				
Note: The site was being pumped.					
1951-08-03	62.20				
Note: The site was being pumped.					
1951-07-06	61.70				
Note: The site was being pumped.					
1951-06-01	55.20				
Note: The site was being pumped.					
1951-05-04	9.80				
1951-04-06	50.80				
Note: The site was being pumped.					
1951-02-23	4.50		1951-01-12	9.00	
1950-12-01	9.90				
1950-11-03	60.40				
Note: The site was being pumped.					
1950-10-07	60.90				
Note: The site was being pumped.					
1950-09-01	61.10				
Note: The site was being pumped.					
1950-08-04	59.90				
Note: The site was being pumped.					
1950-07-07	59.30				
Note: The site was being pumped.					
1950-06-02	54.60				
Note: The site was being pumped.					
1950-05-05	50.30				
Note: The site was being pumped.					
1950-04-14	4.60				
1950-03-17	47.50				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1950-02-03	8.00		1950-01-06	3.10	
1949-12-02	5.10		1949-11-04	12.80	
1949-10-07	13.90				
1949-09-02	50.70				
Note: The site was being pumped.					
1949-08-01	49.60				
Note: The site was being pumped.					
1949-07-01	6.10		1949-04-01	6.80	
1949-03-04	21.80		1949-02-04	21.80	
1949-01-03	16.10		1948-12-24	9.10	
1948-09-10	6.60		1948-08-14	6.30	
1948-07-17	10.20		1948-06-05	2.20	
1948-05-07	2.20		1948-04-09	4.50	
1948-03-05	9.10		1948-02-27	16.10	
1947-10-03	32.90		1947-09-05	35.00	
1947-08-08	37.00		1946-09-27	1.20	
1946-09-13	2.50		1946-08-16	2.50	
1946-07-12	1.90		1946-06-14	1.70	
1945-09-14	44.00				
Note: The site was being pumped.					
1945-08-10	39.90				
Note: The site was being pumped.					
1945-07-20	39.20				
Note: The site was being pumped.					
1945-06-22	1.30		1945-06-16	0.40	
1945-05-25	0.50		1945-05-04	1.60	
1945-04-27	2.20		1945-04-13	12.60	
1945-03-02	14.90		1945-02-23	13.80	
1945-01-05	8.00				
1944-08-25	34.10				
Note: The site was being pumped.					
1944-01-28	14.90		1943-11-27	4.50	
1943-11-11	2.20		1943-01-29	10.30	
1942-12-31	10.30		1942-12-11	3.40	
1942-11-27	4.50		1942-10-30	6.80	
1942-10-22	4.50		1942-10-10	3.40	
1942-09-25	4.50		1942-09-18	2.80	
1942-09-04	2.20		1942-08-28	1.00	
1942-06-26	2.20		1942-06-19	6.80	
1942-06-12	4.50		1942-05-29	5.10	
1942-05-08	4.50		1942-04-30	5.70	
1942-04-23	6.80		1942-04-17	9.10	
1942-04-10	3.40		1942-04-03	3.40	
1942-03-27	9.10		1942-03-20	12.00	
1942-03-06	5.70		1942-02-27	8.00	
1942-02-20	4.50		1942-02-06	13.80	
1942-01-23	17.20		1942-01-02	16.60	
1941-12-26	17.20		1941-12-12	13.80	
1941-11-28	6.80		1941-11-21	14.30	
1941-11-07	13.80		1941-10-30	16.60	
1941-10-24	23.00		1941-10-17	6.80	
1941-10-10	4.50		1941-09-26	2.20	
1941-09-13	6.80		1941-09-08	3.40	
1941-08-29	3.40		1941-08-15	4.50	
1941-08-08	2.20		1941-07-18	2.20	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1941-07-11	4.50		1941-06-27	8.00	
1941-06-16	6.80		1941-05-23	9.10	
1941-05-09	15.50		1941-04-25	17.20	
1941-04-11	17.20		1941-03-28	17.20	
1941-03-14	16.60		1941-02-28	16.10	
1941-02-14	16.10		1941-01-31	16.10	
1941-01-17	14.90		1941-01-03	13.80	
1940-12-06	6.20		1940-11-01	5.70	
1940-10-18	2.20				
1940-09-06	37.80				
Note: The site was being pumped.					
1940-08-01	35.50				
Note: The site was being pumped.					
1940-07-05	32.70				
Note: The site was being pumped.					
1940-04-05	12.60		1940-03-01	13.70	
1940-02-02	12.60		1940-01-05	9.10	
1939-12-15	4.50		1939-11-10	4.50	
1939-10-27	2.20		1939-10-06	0.50	
1939-08-04	1.00		1939-07-07	1.00	
1939-06-02	3.40		1939-05-05	2.20	
1939-04-07	8.00		1939-03-03	14.90	
1938-02-25	16.00		1938-02-04	13.70	
1938-01-07	13.70		1937-12-31	13.80	
1937-12-03	17.70				
Note: The site was being pumped.					
1937-08-06	25.50				
Note: The site was being pumped.					
1937-07-02	18.30				
Note: The site was being pumped.					
1937-05-21	1.00		1937-05-07	5.00	
1937-04-02	17.20				
1936-09-04	40.50				
Note: The site was being pumped.					
1936-07-03	18.10		1936-06-26	19.20	
1936-05-15	85.30				
Note: The site was being pumped.					
1936-05-06	4.50				

F30
WSW
1/8 - 1/4 Mile
Lower

FED USGS USGS40000140577

Org. Identifier:	USGS-CA	Drainagearea value:	Not Reported
Formal name:	USGS California Water Science Center	Contrib drainagearea:	Not Reported
Monloc Identifier:	USGS-340422117170602	Latitude:	34.0727907
Monloc name:	001S004W22G019S	Sourcemap scale:	24000
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203		
Drainagearea Units:	Not Reported		
Contrib drainagearea units:	Not Reported		
Longitude:	-117.2858759		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	250
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

C31
WSW
1/8 - 1/4 Mile
Lower

FED USGS USGS40000140561

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340420117170501		
Monloc name:	001S004W22G013S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0722352
Longitude:	-117.2855981	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	986.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	173
Welldepth units:	ft	Wellholedepth:	173
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

F32
WSW
1/8 - 1/4 Mile
Lower

CA WELLS CADW60000017131

Objectid:	17131
Latitude:	34.0728
Longitude:	-117.2859
Site code:	340728N1172859W001
State well numbe:	01S04W22G003S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000017131

G33
SW
1/8 - 1/4 Mile
Lower

FED USGS USGS40000140545

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340416117170101		
Monloc name:	001S004W22G007S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0711241
Longitude:	-117.284487	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	984.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	80
Welldepth units:	ft	Wellholedepth:	83
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 273

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1965-04-15	82.60				
1964-04-17	81.60				
Note: The site was being pumped.					
1964-04-03	77.60		1964-03-13	79.80	
1964-03-06	82.10				
Note: The site was being pumped.					
1964-02-14	74.30				
Note: The site was being pumped.					
1964-02-07	73.90				
1964-01-16	82.90				
Note: The site was being pumped.					
1964-01-03	82.90				
Note: The site was being pumped.					
1963-12-12	75.30		1963-12-06	75.50	
1963-11-07	81.10		1963-10-04	82.60	
1963-05-24	81.90				
Note: The site was being pumped.					
1963-05-10	80.20				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1963-04-26	73.90		1963-04-12	72.90	
1963-03-29	65.30				
1963-03-15	77.90				
Note: The site was being pumped.					
1963-02-28	69.90		1963-02-15	74.20	
1963-02-01	82.40				
Note: The site was being pumped.					
1963-01-18	79.60		1962-12-21	77.10	
1962-11-23	81.10				
1962-07-20	82.50				
Note: The site was being pumped.					
1962-07-06	81.00				
Note: The site was being pumped.					
1962-06-22	78.80		1962-06-01	75.00	
1962-05-18	73.60		1962-05-04	71.80	
1962-04-20	64.90				
Note: The site was being pumped.					
1962-04-06	44.40		1962-03-16	41.70	
1962-03-02	45.50		1962-02-16	49.90	
1962-02-02	57.20				
1962-01-19	74.40				
Note: The site was being pumped.					
1962-01-05	54.50				
Note: The site was being pumped.					
1961-12-29	60.20		1961-12-15	65.90	
1961-11-10	79.70				
1961-10-27	81.70				
Note: The site was being pumped.					
1961-10-13	80.60				
Note: The site was being pumped.					
1961-09-29	80.70				
Note: The site was being pumped.					
1961-09-15	80.20				
Note: The site was being pumped.					
1961-08-25	78.90		1961-08-11	78.60	
1961-07-28	78.00		1961-07-14	77.20	
1961-06-16	73.70				
Note: The site was being pumped.					
1961-06-02	72.40				
Note: The site was being pumped.					
1961-05-19	71.70				
Note: The site was being pumped.					
1961-05-05	70.40				
Note: The site was being pumped.					
1961-04-14	69.50				
Note: The site was being pumped.					
1961-04-07	69.40				
Note: The site was being pumped.					
1961-03-17	69.70				
Note: The site was being pumped.					
1961-03-03	67.60				
Note: The site was being pumped.					
1961-02-17	68.50				
Note: The site was being pumped.					
1961-02-10	67.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1961-01-13	69.40				
Note: The site was being pumped.					
1961-01-06	68.20				
Note: The site was being pumped.					
1960-12-16	66.10				
Note: The site was being pumped.					
1960-12-02	56.70				
1960-11-18	68.60				
Note: The site was being pumped.					
1960-11-04	70.80				
Note: The site was being pumped.					
1960-10-21	70.80				
Note: The site was being pumped.					
1960-10-07	71.50				
Note: The site was being pumped.					
1960-09-16	70.40				
Note: The site was being pumped.					
1960-09-02	68.50				
Note: The site was being pumped.					
1960-08-19	68.70				
Note: The site was being pumped.					
1960-08-05	68.30				
Note: The site was being pumped.					
1960-07-15	66.70				
Note: The site was being pumped.					
1960-07-01	65.20				
Note: The site was being pumped.					
1960-06-17	63.00				
Note: The site was being pumped.					
1960-06-10	62.90				
Note: The site was being pumped.					
1960-06-03	62.50				
Note: The site was being pumped.					
1960-05-27	62.30				
Note: The site was being pumped.					
1960-05-20	60.00				
Note: The site was being pumped.					
1960-05-13	58.80				
Note: The site was being pumped.					
1960-05-06	56.00				
Note: The site was being pumped.					
1960-04-29	55.70				
Note: The site was being pumped.					
1960-04-22	57.40				
Note: The site was being pumped.					
1960-04-15	57.00				
Note: The site was being pumped.					
1960-04-08	54.30				
Note: The site was being pumped.					
1960-04-01	50.10				
Note: The site was being pumped.					
1960-03-25	29.50		1960-03-18	23.40	
1960-03-11	21.00		1960-03-04	20.60	
1960-02-26	22.50		1960-02-19	24.10	
1960-02-12	26.00		1960-02-05	28.50	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1960-01-29	31.10	
1960-01-15	35.70	
1959-12-28	50.00	
1959-12-18	67.20	
Note: The site was being pumped.		
1959-12-11	67.10	
Note: The site was being pumped.		
1959-12-04	68.40	
Note: The site was being pumped.		
1959-11-27	67.80	
Note: The site was being pumped.		
1959-11-20	67.50	
Note: The site was being pumped.		
1959-11-13	67.80	
Note: The site was being pumped.		
1959-11-06	68.40	
1959-10-30	69.50	
Note: The site was being pumped.		
1959-10-23	69.60	
Note: The site was being pumped.		
1959-10-16	69.30	
Note: The site was being pumped.		
1959-10-09	69.90	
Note: The site was being pumped.		
1959-10-02	69.40	
Note: The site was being pumped.		
1959-09-18	68.90	
Note: The site was being pumped.		
1959-09-11	69.60	
Note: The site was being pumped.		
1959-09-04	69.30	
Note: The site was being pumped.		
1959-08-28	69.40	
Note: The site was being pumped.		
1959-08-21	69.00	
Note: The site was being pumped.		
1959-08-14	69.30	
Note: The site was being pumped.		
1959-08-07	67.70	
Note: The site was being pumped.		
1959-07-31	68.20	
Note: The site was being pumped.		
1959-07-24	68.00	
Note: The site was being pumped.		
1959-07-17	67.00	
Note: The site was being pumped.		
1959-07-10	66.30	
Note: The site was being pumped.		
1959-07-03	66.20	
Note: The site was being pumped.		
1959-06-26	65.40	
Note: The site was being pumped.		
1959-06-19	65.00	
Note: The site was being pumped.		
1959-06-12	64.00	
Note: The site was being pumped.		

Date	Feet below Surface	Feet to Sealevel
1960-01-22	33.70	
1960-01-08	39.20	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-06-05	62.30				
Note: The site was being pumped.					
1959-05-29	63.50				
Note: The site was being pumped.					
1959-05-22	62.90				
Note: The site was being pumped.					
1959-05-15	61.80				
Note: The site was being pumped.					
1959-05-08	55.80				
Note: The site was being pumped.					
1959-05-01	54.40		1959-04-24	51.00	
1959-04-17	53.00		1959-04-10	49.80	
1959-03-27	33.70		1959-03-20	23.20	
1959-03-13	24.80		1959-03-06	20.70	
1959-02-27	29.80		1959-02-20	35.40	
1959-02-13	49.00		1959-02-06	41.90	
1959-01-30	40.90		1959-01-23	39.00	
1959-01-16	39.80		1959-01-09	42.20	
1959-01-02	39.50				
1958-12-26	56.40				
Note: The site was being pumped.					
1958-12-19	49.00				
1958-12-12	56.90				
Note: The site was being pumped.					
1958-12-05	47.00				
1958-11-28	56.80				
Note: The site was being pumped.					
1958-11-21	59.50				
Note: The site was being pumped.					
1958-11-14	60.20				
Note: The site was being pumped.					
1958-11-07	57.90				
Note: The site was being pumped.					
1958-10-31	59.80				
Note: The site was being pumped.					
1958-10-24	60.40				
Note: The site was being pumped.					
1958-10-17	59.30				
Note: The site was being pumped.					
1958-10-10	62.00				
Note: The site was being pumped.					
1958-10-03	61.00				
Note: The site was being pumped.					
1958-09-26	62.10				
Note: The site was being pumped.					
1958-09-19	63.10				
Note: The site was being pumped.					
1958-09-12	61.50				
Note: The site was being pumped.					
1958-09-05	62.90				
Note: The site was being pumped.					
1958-08-29	62.40				
Note: The site was being pumped.					
1958-08-22	61.90				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-08-15	62.60				
Note: The site was being pumped.					
1958-08-08	62.40				
Note: The site was being pumped.					
1958-08-01	62.40				
Note: The site was being pumped.					
1958-07-25	60.80				
Note: The site was being pumped.					
1958-07-11	58.40				
Note: The site was being pumped.					
1958-07-04	57.50				
Note: The site was being pumped.					
1958-06-27	55.40				
Note: The site was being pumped.					
1958-06-20	54.30				
Note: The site was being pumped.					
1958-06-13	52.40				
Note: The site was being pumped.					
1958-06-06	52.40				
Note: The site was being pumped.					
1958-05-30	50.80				
Note: The site was being pumped.					
1958-05-23	48.40				
Note: The site was being pumped.					
1958-05-16	45.70				
Note: The site was being pumped.					
1958-05-09	43.40				
Note: The site was being pumped.					
1958-05-02	39.00				
Note: The site was being pumped.					
1958-04-26	11.60		1958-04-19	5.80	
1958-04-11	5.20		1958-04-04	6.40	
1958-03-28	7.80		1958-03-21	8.40	
1958-03-14	10.20		1958-03-07	10.80	
1958-02-28	13.40		1958-02-21	15.50	
1958-02-14	18.90		1958-02-07	22.40	
1958-01-31	29.30				
1958-01-24	56.30				
Note: The site was being pumped.					
1958-01-17	49.90				
Note: The site was being pumped.					
1958-01-10	41.70				
Note: The site was being pumped.					
1958-01-03	24.60		1957-12-27	27.20	
1957-12-20	31.30		1957-12-06	50.20	
1957-11-22	45.20		1957-11-15	36.70	
1957-11-08	38.30				
1957-11-01	55.40				
Note: The site was being pumped.					
1957-10-24	57.80				
Note: The site was being pumped.					
1957-10-18	51.30				
1957-10-11	67.00				
Note: The site was being pumped.					
1957-09-27	67.10				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1957-09-20	66.80				
	Note: The site was being pumped.				
1957-09-13	66.90				
	Note: The site was being pumped.				
1957-09-06	66.30				
	Note: The site was being pumped.				
1957-08-30	66.00				
	Note: The site was being pumped.				
1957-08-23	65.60				
	Note: The site was being pumped.				
1957-08-16	64.20				
	Note: The site was being pumped.				
1957-08-09	64.40				
	Note: The site was being pumped.				
1957-08-02	63.60				
	Note: The site was being pumped.				
1957-07-26	63.00				
	Note: The site was being pumped.				
1957-07-19	62.60				
	Note: The site was being pumped.				
1957-07-12	62.50				
	Note: The site was being pumped.				
1957-07-05	60.30				
	Note: The site was being pumped.				
1957-06-28	61.30				
	Note: The site was being pumped.				
1957-06-21	58.90				
	Note: The site was being pumped.				
1957-06-14	56.80				
	Note: The site was being pumped.				
1957-06-07	56.70				
	Note: The site was being pumped.				
1957-05-31	53.50				
	Note: The site was being pumped.				
1957-05-24	49.90				
	Note: The site was being pumped.				
1957-05-17	51.20				
	Note: The site was being pumped.				
1957-05-10	53.30				
	Note: The site was being pumped.				
1957-05-03	50.10				
	Note: The site was being pumped.				
1957-04-26	41.00				
	Note: The site was being pumped.				
1957-04-19	50.00				
	Note: The site was being pumped.				
1957-04-12	52.80				
	Note: The site was being pumped.				
1957-04-05	23.90		1957-03-30	18.90	
1957-03-22	11.20		1957-03-15	13.40	
1957-03-08	14.20		1957-03-01	16.20	
1957-02-25	15.90		1957-02-18	16.00	
1957-02-08	18.40		1957-02-01	17.60	
1957-01-25	21.70		1957-01-18	27.50	
1957-01-11	31.80		1957-01-04	39.60	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1956-12-28	40.40	
1956-12-14	46.60	
1956-11-30	65.40	
Note: The site was being pumped.		
1956-11-23	65.10	
Note: The site was being pumped.		
1956-11-16	65.20	
Note: The site was being pumped.		
1956-11-09	65.50	
Note: The site was being pumped.		
1956-11-02	64.10	
Note: The site was being pumped.		
1956-10-26	64.40	
Note: The site was being pumped.		
1956-10-19	65.10	
Note: The site was being pumped.		
1956-10-12	65.10	
Note: The site was being pumped.		
1956-10-05	65.10	
Note: The site was being pumped.		
1956-09-28	65.60	
Note: The site was being pumped.		
1956-09-21	65.50	
Note: The site was being pumped.		
1956-09-14	65.40	
Note: The site was being pumped.		
1956-09-07	65.10	
Note: The site was being pumped.		
1956-08-31	64.00	
Note: The site was being pumped.		
1956-08-24	64.70	
Note: The site was being pumped.		
1956-08-17	64.50	
Note: The site was being pumped.		
1956-08-10	64.20	
Note: The site was being pumped.		
1956-08-03	63.20	
Note: The site was being pumped.		
1956-07-27	62.40	
Note: The site was being pumped.		
1956-07-20	62.50	
Note: The site was being pumped.		
1956-07-13	61.80	
Note: The site was being pumped.		

Date	Feet below Surface	Feet to Sealevel
1956-12-21	45.10	
1956-12-07	49.40	

**F34
WSW
1/8 - 1/4 Mile
Lower**

CA WELLS CADW60000034368

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid: 34368
 Latitude: 34.0728
 Longitude: -117.2862
 Site code: 340728N1172862W002
 State well numbe: 01S04W22G011S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000034368

G35
SW
1/8 - 1/4 Mile
Lower

FED USGS USGS40000140546

Org. Identifier:	USGS-CA			
Formal name:	USGS California Water Science Center			
Monloc Identifier:	USGS-340416117170301			
Monloc name:	001S004W22G008S			
Monloc type:	Well			
Monloc desc:	Not Reported			
Huc code:	18070203	Drainagearea value:	Not Reported	
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported	
Contrib drainagearea units:	Not Reported	Latitude:	34.0711241	
Longitude:	-117.2850425	Sourcemap scale:	Not Reported	
Horiz Acc measure:	1	Horiz Acc measure units:	seconds	
Horiz Collection method:	Interpolated from map			
Horiz coord refsys:	NAD83	Vert measure val:	982.00	
Vert measure units:	feet	Vertacc measure val:	10	
Vert accmeasure units:	feet			
Vertcollection method:	Interpolated from topographic map			
Vert coord refsys:	NGVD29	Countrycode:	US	
Aquifername:	California Coastal Basin aquifers			
Formation type:	Not Reported			
Aquifer type:	Not Reported			
Construction date:	Not Reported		Welldepth:	100
Welldepth units:	ft	Wellholedepth:	101	
Wellholedepth units:	ft			

Ground-water levels, Number of Measurements: 0

G36
SSW
1/8 - 1/4 Mile
Lower

FED USGS USGS40000140526

Org. Identifier:	USGS-CA			
Formal name:	USGS California Water Science Center			
Monloc Identifier:	USGS-340414117170001			
Monloc name:	001S004W22G004S			
Monloc type:	Well			
Monloc desc:	Not Reported			
Huc code:	18070203	Drainagearea value:	Not Reported	
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported	
Contrib drainagearea units:	Not Reported	Latitude:	34.0705686	
Longitude:	-117.2842092	Sourcemap scale:	Not Reported	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	983.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	81
Welldepth units:	ft	Wellholedepth:	81
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

H37
WSW
1/8 - 1/4 Mile
Lower

FED USGS USGS40000140565

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340421117170801		
Monloc name:	001S004W22G002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.072513
Longitude:	-117.2864315	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	984.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	86
Welldepth units:	ft	Wellholedepth:	86
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

I38
WNW
1/8 - 1/4 Mile
Lower

CA WELLS CADW60000017125

Objectid:	17125
Latitude:	34.0747
Longitude:	-117.2865
Site code:	340747N1172865W001
State well numbe:	01S04W22B005S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000017125

G39
SW
1/8 - 1/4 Mile
Lower

CA WELLS CADW60000017132

Objectid: 17132
 Latitude: 34.0711
 Longitude: -117.2854
 Site code: 340711N1172854W001
 State well numbe: 01S04W22G007S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000017132

G40
SSW
1/4 - 1/2 Mile
Lower

FED USGS USGS40000140527

Org. Identifier: USGS-CA	
Formal name: USGS California Water Science Center	
Monloc Identifier: USGS-340414117170201	
Monloc name: 001S004W22G005S	
Monloc type: Well	
Monloc desc: Not Reported	
Huc code: 18070203	Drainagearea value: Not Reported
Drainagearea Units: Not Reported	Contrib drainagearea: Not Reported
Contrib drainagearea units: Not Reported	Latitude: 34.0705686
Longitude: -117.2847648	Sourcemap scale: Not Reported
Horiz Acc measure: 1	Horiz Acc measure units: seconds
Horiz Collection method: Interpolated from map	
Horiz coord refsys: NAD83	Vert measure val: 983.00
Vert measure units: feet	Vertacc measure val: 10
Vert accmeasure units: feet	
Vertcollection method: Interpolated from topographic map	
Vert coord refsys: NGVD29	Countrycode: US
Aquifername: California Coastal Basin aquifers	
Formation type: Not Reported	
Aquifer type: Not Reported	
Construction date: Not Reported	Welldepth: 83
Welldepth units: ft	Wellholedepth: 83
Wellholedepth units: ft	

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

G41
SW
1/4 - 1/2 Mile
Lower

FED USGS USGS40000140547

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340416117170501		
Monloc name:	001S004W22G006S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0711241
Longitude:	-117.285598	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	983.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	100
Welldepth units:	ft	Wellholedepth:	103
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 302

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1965-06-18	99.10				
Note: The site was being pumped.					
1965-05-14	95.90				
Note: The site was being pumped.					
1965-04-15	81.00		1965-04-02	84.80	
1965-03-17	87.00		1965-02-26	88.60	
1965-01-15	84.30		1964-12-31	87.40	
1964-06-26	89.40				
Note: The site was being pumped.					
1964-06-12	89.40				
Note: The site was being pumped.					
1964-06-05	89.10				
Note: The site was being pumped.					
1964-05-15	83.40				
1964-05-01	85.40				
Note: The site was being pumped.					
1964-04-17	81.80				
Note: The site was being pumped.					
1964-04-03	74.60		1964-03-13	78.00	
1964-03-06	84.30		1964-02-14	72.30	
1964-02-07	72.70		1964-01-16	79.20	
1964-01-03	77.70		1963-12-12	74.70	
1963-12-06	74.60				
1963-11-14	88.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1963-11-07	80.30				
1963-10-17	88.00				
Note: The site was being pumped.					
1963-10-04	84.70				
Note: The site was being pumped.					
1963-09-19	83.80		1963-09-06	85.20	
1963-08-01	88.90				
Note: The site was being pumped.					
1963-07-12	88.70				
Note: The site was being pumped.					
1963-07-05	87.10				
Note: The site was being pumped.					
1963-06-28	86.10				
Note: The site was being pumped.					
1963-06-21	85.20				
Note: The site was being pumped.					
1963-06-07	83.30				
Note: The site was being pumped.					
1963-05-24	82.00				
Note: The site was being pumped.					
1963-05-10	80.10				
Note: The site was being pumped.					
1963-04-26	76.10				
Note: The site was being pumped.					
1963-04-12	75.80				
Note: The site was being pumped.					
1963-03-29	63.30				
1963-03-15	77.10				
Note: The site was being pumped.					
1963-03-01	67.20		1963-02-15	72.10	
1963-02-01	86.90				
Note: The site was being pumped.					
1963-01-18	81.00				
Note: The site was being pumped.					
1963-01-04	80.60				
Note: The site was being pumped.					
1962-12-21	75.10				
1962-12-07	84.40				
Note: The site was being pumped.					
1962-11-23	82.80				
Note: The site was being pumped.					
1962-11-09	86.10				
Note: The site was being pumped.					
1962-10-26	85.50				
Note: The site was being pumped.					
1962-10-12	85.10				
Note: The site was being pumped.					
1962-09-28	84.70				
Note: The site was being pumped.					
1962-09-14	84.80				
Note: The site was being pumped.					
1962-08-31	83.70				
Note: The site was being pumped.					
1962-08-17	81.90				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1962-08-03	80.70				
Note: The site was being pumped.					
1962-07-20	79.70				
Note: The site was being pumped.					
1962-07-06	78.00				
Note: The site was being pumped.					
1962-06-22	75.40		1962-06-01	72.70	
1962-05-18	70.20		1962-05-04	64.90	
1962-04-27	53.80		1962-04-06	42.60	
1962-03-16	40.20		1962-03-02	44.00	
1962-02-16	48.20		1962-02-02	54.80	
1962-01-19	72.20		1962-01-05	62.90	
1961-12-29	58.40		1961-12-15	62.80	
1961-11-24	78.10		1961-11-10	79.30	
1961-10-27	80.30				
Note: The site was being pumped.					
1961-10-13	79.60				
Note: The site was being pumped.					
1961-09-29	79.90				
Note: The site was being pumped.					
1961-09-15	79.50				
Note: The site was being pumped.					
1961-08-25	78.30		1961-08-11	78.40	
1961-07-28	77.70		1961-07-14	76.90	
1961-06-16	75.30				
Note: The site was being pumped.					
1961-06-02	73.80				
Note: The site was being pumped.					
1961-05-19	73.30				
Note: The site was being pumped.					
1961-05-05	73.20				
Note: The site was being pumped.					
1961-04-14	70.60				
Note: The site was being pumped.					
1961-04-07	70.20				
Note: The site was being pumped.					
1961-03-17	71.30		1961-03-03	67.90	
1961-02-17	69.90				
Note: The site was being pumped.					
1961-02-10	68.30				
Note: The site was being pumped.					
1961-01-13	69.90				
Note: The site was being pumped.					
1961-01-06	69.30				
Note: The site was being pumped.					
1960-12-16	67.60				
Note: The site was being pumped.					
1960-12-02	55.10				
1960-11-18	68.70				
Note: The site was being pumped.					
1960-11-04	72.30				
Note: The site was being pumped.					
1960-10-21	71.10				
Note: The site was being pumped.					
1960-10-07	71.70				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1960-09-16	71.30				
Note: The site was being pumped.					
1960-09-03	69.30				
Note: The site was being pumped.					
1960-08-19	70.10				
Note: The site was being pumped.					
1960-08-05	69.20				
Note: The site was being pumped.					
1960-07-15	67.70				
Note: The site was being pumped.					
1960-07-01	65.90				
Note: The site was being pumped.					
1960-06-24	63.90				
Note: The site was being pumped.					
1960-06-17	63.10				
Note: The site was being pumped.					
1960-06-10	62.80				
Note: The site was being pumped.					
1960-06-03	62.70				
Note: The site was being pumped.					
1960-05-27	61.60				
Note: The site was being pumped.					
1960-05-20	60.00				
Note: The site was being pumped.					
1960-05-13	59.20				
Note: The site was being pumped.					
1960-05-06	56.60				
Note: The site was being pumped.					
1960-04-29	55.90				
Note: The site was being pumped.					
1960-04-22	57.90				
Note: The site was being pumped.					
1960-04-15	57.60				
Note: The site was being pumped.					
1960-04-08	54.40				
Note: The site was being pumped.					
1960-04-01	50.50				
Note: The site was being pumped.					
1960-03-25	28.90		1960-03-18	22.30	
1960-03-11	19.70		1960-03-04	19.60	
1960-02-26	20.90		1960-02-19	22.50	
1960-02-12	24.40		1960-02-05	29.30	
1960-01-29	29.70		1960-01-22	31.70	
1960-01-15	34.30		1960-01-08	38.10	
1959-12-28	47.50				
1959-12-18	68.20				
Note: The site was being pumped.					
1959-12-11	68.70				
Note: The site was being pumped.					
1959-12-04	69.00				
Note: The site was being pumped.					
1959-11-27	68.30				
Note: The site was being pumped.					
1959-11-20	67.90				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1959-11-13	59.10	
Note: The site was being pumped.		
1959-11-06	69.40	
Note: The site was being pumped.		
1959-10-30	70.00	
Note: The site was being pumped.		
1959-10-23	70.00	
Note: The site was being pumped.		
1959-10-16	70.00	
Note: The site was being pumped.		
1959-10-09	69.10	
Note: The site was being pumped.		
1959-10-02	68.60	
Note: The site was being pumped.		
1959-09-25	68.40	
Note: The site was being pumped.		
1959-09-18	68.50	
Note: The site was being pumped.		
1959-09-11	70.10	
Note: The site was being pumped.		
1959-09-04	69.40	
Note: The site was being pumped.		
1959-08-28	68.60	
Note: The site was being pumped.		
1959-08-21	67.30	
Note: The site was being pumped.		
1959-08-14	67.70	
Note: The site was being pumped.		
1959-08-07	67.30	
Note: The site was being pumped.		
1959-07-31	67.40	
Note: The site was being pumped.		
1959-07-24	67.40	
Note: The site was being pumped.		
1959-07-17	66.60	
Note: The site was being pumped.		
1959-07-10	66.30	
Note: The site was being pumped.		
1959-07-03	65.60	
Note: The site was being pumped.		
1959-06-26	64.40	
Note: The site was being pumped.		
1959-06-19	63.30	
Note: The site was being pumped.		
1959-06-12	62.20	
Note: The site was being pumped.		
1959-06-05	61.40	
Note: The site was being pumped.		
1959-05-29	61.90	
Note: The site was being pumped.		
1959-05-22	61.30	
Note: The site was being pumped.		
1959-05-15	59.90	
Note: The site was being pumped.		
1959-05-08	58.40	
Note: The site was being pumped.		

Date	Feet below Surface	Feet to Sealevel
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-05-01	57.80				
Note: The site was being pumped.					
1959-04-24	54.40				
Note: The site was being pumped.					
1959-04-17	55.50				
Note: The site was being pumped.					
1959-04-10	54.10				
Note: The site was being pumped.					
1959-04-03	49.40				
Note: The site was being pumped.					
1959-03-27	41.90				
Note: The site was being pumped.					
1959-03-20	27.60		1959-03-13	23.40	
1959-03-06	24.30		1959-02-27	28.80	
1959-02-20	33.60				
1959-02-13	53.10				
Note: The site was being pumped.					
1959-02-06	40.60		1959-01-30	39.50	
1959-01-23	38.10		1959-01-16	39.90	
1959-01-09	42.50		1959-01-02	43.90	
1958-12-26	57.40				
Note: The site was being pumped.					
1958-12-19	49.30				
1958-12-12	58.50				
Note: The site was being pumped.					
1958-12-05	53.50				
Note: The site was being pumped.					
1958-11-28	57.80				
Note: The site was being pumped.					
1958-11-21	59.50				
Note: The site was being pumped.					
1958-11-14	60.60				
Note: The site was being pumped.					
1958-11-07	57.90				
Note: The site was being pumped.					
1958-10-31	59.80				
Note: The site was being pumped.					
1958-10-24	60.20				
Note: The site was being pumped.					
1958-10-17	58.30				
Note: The site was being pumped.					
1958-10-10	61.90				
Note: The site was being pumped.					
1958-10-03	61.20				
Note: The site was being pumped.					
1958-09-26	61.00				
Note: The site was being pumped.					
1958-09-19	63.60				
Note: The site was being pumped.					
1958-09-12	63.10				
Note: The site was being pumped.					
1958-09-05	63.10				
Note: The site was being pumped.					
1958-08-29	62.40				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-08-22	62.00				
Note: The site was being pumped.					
1958-08-15	62.50				
Note: The site was being pumped.					
1958-08-08	62.80				
Note: The site was being pumped.					
1958-08-01	62.90				
Note: The site was being pumped.					
1958-07-25	61.00				
Note: The site was being pumped.					
1958-07-11	59.50				
Note: The site was being pumped.					
1958-07-04	57.70				
Note: The site was being pumped.					
1958-06-27	55.90				
Note: The site was being pumped.					
1958-06-20	54.70				
Note: The site was being pumped.					
1958-06-13	52.60				
Note: The site was being pumped.					
1958-06-06	52.50				
Note: The site was being pumped.					
1958-05-30	50.90				
Note: The site was being pumped.					
1958-05-23	49.00				
Note: The site was being pumped.					
1958-05-16	46.70				
Note: The site was being pumped.					
1958-05-09	37.00				
Note: The site was being pumped.					
1958-05-02	31.10				
Note: The site was being pumped.					
1958-04-26	4.10		1958-03-14	1.10	
1958-03-07	2.10		1958-02-28	5.40	
1958-02-21	7.00		1958-02-14	10.40	
1958-02-07	12.70		1958-01-31	21.00	
1958-01-24	50.10				
Note: The site was being pumped.					
1958-01-17	41.30				
Note: The site was being pumped.					
1958-01-10	27.70		1958-01-03	15.50	
1957-12-27	18.30		1957-12-20	22.20	
1957-12-06	42.10		1957-11-22	30.00	
1957-11-15	28.00		1957-11-08	29.10	
1957-11-01	46.90				
Note: The site was being pumped.					
1957-10-25	48.50				
Note: The site was being pumped.					
1957-10-18	42.60				
1957-10-11	58.70				
Note: The site was being pumped.					
1957-09-27	58.60				
Note: The site was being pumped.					
1957-09-20	58.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1957-09-13	58.20				
	Note: The site was being pumped.				
1957-09-06	57.60				
	Note: The site was being pumped.				
1957-08-30	57.40				
	Note: The site was being pumped.				
1957-08-23	57.00				
	Note: The site was being pumped.				
1957-08-16	56.50				
	Note: The site was being pumped.				
1957-08-09	56.00				
	Note: The site was being pumped.				
1957-07-26	54.90				
	Note: The site was being pumped.				
1957-07-19	53.70				
	Note: The site was being pumped.				
1957-07-12	53.50				
	Note: The site was being pumped.				
1957-07-06	54.20				
	Note: The site was being pumped.				
1957-06-28	52.10		1957-06-21	49.90	
1957-06-14	48.30		1957-06-07	48.10	
1957-05-31	44.80		1957-05-24	41.20	
1957-05-17	42.60		1957-05-10	45.00	
1957-05-03	42.70		1957-04-26	35.40	
1957-04-19	41.50		1957-04-12	40.00	
1957-04-05	16.50		1957-03-30	10.50	
1957-03-22	13.70		1957-03-15	15.60	
1957-03-08	16.20		1957-03-01	17.70	
1957-02-25	16.60		1957-02-18	16.80	
1957-02-08	19.50		1957-02-01	9.10	
1957-01-25	23.20		1957-01-18	24.60	
1957-01-11	17.50		1957-01-04	30.30	
1956-12-28	32.00		1956-12-21	36.00	
1956-12-14	38.10		1956-12-07	40.00	
1956-11-30	58.80				
	Note: The site was being pumped.				
1956-11-23	56.10				
	Note: The site was being pumped.				
1956-11-16	56.20				
	Note: The site was being pumped.				
1956-11-09	55.10				
	Note: The site was being pumped.				
1956-11-02	55.10				
	Note: The site was being pumped.				
1956-10-26	56.10				
	Note: The site was being pumped.				
1956-10-19	56.00				
	Note: The site was being pumped.				
1956-10-12	56.10				
	Note: The site was being pumped.				
1956-10-05	56.10				
	Note: The site was being pumped.				
1956-09-28	57.90				
	Note: The site was being pumped.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1956-09-21	56.80				
	Note: The site was being pumped.				
1956-09-14	57.60				
	Note: The site was being pumped.				
1956-09-07	56.20				
	Note: The site was being pumped.				
1956-08-31	55.60				
	Note: The site was being pumped.				
1956-08-24	55.90				
	Note: The site was being pumped.				
1956-08-17	55.70				
	Note: The site was being pumped.				
1956-08-10	55.40				
	Note: The site was being pumped.				
1956-08-03	54.90				
	Note: The site was being pumped.				
1956-07-27	54.30				
	Note: The site was being pumped.				
1956-07-13	53.00				
	Note: The site was being pumped.				

J42
NNE
1/4 - 1/2 Mile
Higher

CA WELLS CADW60000003246

Objectid: 3246
 Latitude: 34.077
 Longitude: -117.2804
 Site code: 340770N1172804W001
 State well numbe: 01S04W22A005S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000003246

K43
North
1/4 - 1/2 Mile
Higher

FED USGS USGS40000140676

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340439117165501		
Monloc name:	001S004W22A007S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0775128
Longitude:	-117.2828203	Sourcemap scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1004.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19570101	Welldepth:	145
Welldepth units:	ft	Wellholedepth:	150
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1957-06-07	44.00	

**L44
NNW
1/4 - 1/2 Mile
Higher**

FED USGS USGS40000140660

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340437117170301		
Monloc name:	001S004W22B006S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0771389
Longitude:	-117.28475	Sourcemap scale:	24000
Horiz Acc measure:	.5	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	1002.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Cenozoic Erathem		
Aquifer type:	Unconfined single aquifer		
Construction date:	19600223	Welldepth:	654
Welldepth units:	ft	Wellholedepth:	654
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 3

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel

2004-06-30	33.4		2000-03-12	28	
1960-04-02	41.00				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

K45
NNW
1/4 - 1/2 Mile
Higher

CA WELLS CADW60000017123

Objectid: 17123
 Latitude: 34.0775
 Longitude: -117.2837
 Site code: 340775N1172837W001
 State well numbe: 01S04W22A007S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000017123

J46
NE
1/4 - 1/2 Mile
Higher

FED USGS USGS40000140659

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340437117164301		
Monloc name:	001S004W22A005S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0769573
Longitude:	-117.2794868	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1008.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19530101	Welldepth:	108
Welldepth units:	ft	Wellholedepth:	108
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1953-10-22	40.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

L47
NNW
1/4 - 1/2 Mile
Higher

FED USGS USGS40000140677

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340439117170001		
Monloc name:	001S004W22B001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0775128
Longitude:	-117.2842092	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1002.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	190
Welldepth units:	ft	Wellholedepth:	192
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 20

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-04-02	77.30		1969-11-24	84.30	
1969-04-25	86.10		1969-01-03	102.50	
1968-05-24	90.80		1967-12-01	95.20	
1966-09-16	107.20				
Note: The site was being pumped.					
1966-08-19	106.10				
Note: The site was being pumped.					
1966-07-22	104.20				
Note: The site was being pumped.					
1966-06-17	100.00				
Note: The site was being pumped.					
1966-05-20	90.60		1966-04-15	88.10	
1966-03-11	83.10		1966-02-18	78.20	
1966-01-28	80.40		1965-12-23	86.90	
1965-11-19	90.40				
1965-10-22	102.20				
Note: The site was being pumped.					
1965-08-20	101.00				
Note: The site was being pumped.					
1965-07-30	92.10				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

48
ESE
1/4 - 1/2 Mile
Higher

FED USGS USGS40000140569

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340422117163601		
Monloc name:	001S004W23E001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0727908
Longitude:	-117.2775423	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1004.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19280101	Welldepth:	250
Welldepth units:	ft	Wellholedepth:	730
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

M49
WNW
1/4 - 1/2 Mile
Lower

FED USGS USGS40000140644

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340433117171203		
Monloc name:	001S004W22B011S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0758333
Longitude:	-117.2866667	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	995
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	50
Construction date:	20021114	Wellholeddepth:	352
Welldepth units:	ft		
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 20

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
-----			-----		
2005-01-28					
	Note: The site was dry (no water level recorded).				
2005-01-05					
	Note: The site was dry (no water level recorded).				
2004-12-09					
	Note: The site was dry (no water level recorded).				
2004-11-19					
	Note: The site was dry (no water level recorded).				
2004-11-04					
	Note: The site was dry (no water level recorded).				
2004-10-29					
	Note: The site was dry (no water level recorded).				
2004-09-15					
	Note: The site was dry (no water level recorded).				
2004-08-11					
	Note: The site was dry (no water level recorded).				
2004-07-16					
	Note: The site was dry (no water level recorded).				
2004-06-17					
	Note: The site was dry (no water level recorded).				
2004-05-12					
	Note: The site was dry (no water level recorded).				
2004-04-22					
	Note: The site was dry (no water level recorded).				
2004-04-08					
	Note: The site was dry (no water level recorded).				
2004-03-23					
	Note: The site was dry (no water level recorded).				
2004-03-04					
	Note: The site was dry (no water level recorded).				
2004-02-20					
	Note: The site was dry (no water level recorded).				
2004-01-30					
	Note: The site was dry (no water level recorded).				
2004-01-22					
	Note: The site was dry (no water level recorded).				
2003-12-16					
	Note: The site was dry (no water level recorded).				
2003-11-18					
	Note: The site was dry (no water level recorded).				

**M50
WNW
1/4 - 1/2 Mile
Lower**

FED USGS USGS40000140643

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340433117171202
 Monloc name: 001S004W22B010S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: Not Reported
 Drainagearea Units: Not Reported
 Contrib drainagearea units: Not Reported
 Longitude: -117.2866667
 Horiz Acc measure: 1
 Horiz Collection method: Global positioning system (GPS), uncorrected
 Horiz coord refsys: NAD83
 Vert measure units: feet
 Vert accmeasure units: feet
 Vertcollection method: Interpolated from topographic map
 Vert coord refsys: NGVD29
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Not Reported
 Construction date: 20021114
 Welldepth units: ft
 Wellholedepth units: ft

Drainagearea value: Not Reported
 Contrib drainagearea: Not Reported
 Latitude: 34.0758333
 Sourcemap scale: 24000
 Horiz Acc measure units: seconds
 Vert measure val: 995
 Vertacc measure val: 10
 Countrycode: US
 Welldepth: 90
 Wellholedepth: 352

Ground-water levels, Number of Measurements: 19

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-01-28	58.03		2005-01-05	59.82	
2004-12-09	60.58		2004-11-19	59.80	
2004-10-29	59.41		2004-09-15	59.52	
2004-08-11	57.37		2004-07-16	55.60	
2004-06-17	52.88		2004-05-12	49.27	
2004-04-22	47.13		2004-04-08	46.90	
2004-03-23	47.31		2004-03-04	45.31	
2004-02-20	47.09		2004-01-30	47.11	
2004-01-22	47.62		2003-12-16	48.55	
2003-11-18	50.00				

M51
WNW
1/4 - 1/2 Mile
Lower

FED USGS USGS40000140642

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340433117171201
 Monloc name: 001S004W22B009S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: Not Reported
 Drainagearea Units: Not Reported
 Contrib drainagearea units: Not Reported
 Longitude: -117.2866667

Drainagearea value: Not Reported
 Contrib drainagearea: Not Reported
 Latitude: 34.0758333
 Sourcemap scale: 24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	995
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20021114	Welldepth:	160
Welldepth units:	ft	Wellholedepth:	352
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 20

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-01-28	59.13		2005-01-05	60.71	
2004-12-09	61.58		2004-11-19	61.11	
2004-11-04	60.61		2004-10-29	60.43	
2004-09-15	61.27		2004-08-11	59.04	
2004-07-16	57.26		2004-06-17	54.35	
2004-05-12	50.24		2004-04-22	47.90	
2004-04-08	47.81		2004-03-23	48.69	
2004-03-04	46.15		2004-02-20	48.17	
2004-01-30	47.91		2004-01-22	48.64	
2003-12-16	49.56		2003-11-18	51.15	

I52
WNW
1/4 - 1/2 Mile
Lower

CA WELLS CADW60000001620

Objectid:	1620
Latitude:	34.0758
Longitude:	-117.2867
Site code:	340758N1172867W002
State well numbe:	01S04W22B010S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino
Basin code:	'8-2.06'
Basin desc:	Bunker Hill
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000001620

I53
WNW
1/4 - 1/2 Mile
Lower

CA WELLS CADW600000015636

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid: 15636
 Latitude: 34.0758
 Longitude: -117.2867
 Site code: 340758N1172867W001
 State well numbe: 01S04W22B009S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000015636

I54
WNW
1/4 - 1/2 Mile
Lower

CA WELLS CADW60000015649

Objectid: 15649
 Latitude: 34.0758
 Longitude: -117.2867
 Site code: 340758N1172867W003
 State well numbe: 01S04W22B011S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000015649

55
ENE
1/4 - 1/2 Mile
Higher

FED USGS USGS40000140640

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340433117163801		
Monloc name:	001S004W23D001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0758462
Longitude:	-117.2780979	Sourcemap scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1010.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19410101	Welldepth:	125
Welldepth units:	ft	Wellholedepth:	125
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

H56
WSW
1/4 - 1/2 Mile
Lower

CA WELLS CADW60000000836

Objectid:	836
Latitude:	34.071569
Longitude:	-117.286859
Site code:	340716N1172869W001
State well numbe:	01S04W22G014S
Local well name:	'Thorne 3'
Well use id:	1
Well use descrip:	Observation
County id:	36
County name:	San Bernardino
Basin code:	'8-2.06'
Basin desc:	Bunker Hill
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000000836

N57
SSW
1/4 - 1/2 Mile
Lower

FED USGS USGS40000140488

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340408117165301		
Monloc name:	001S004W22J001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0694806
Longitude:	-117.2839056	Sourcemap scale:	24000
Horiz Acc measure:	.01	Horiz Acc measure units:	seconds
Horiz Collection method:	Differentially corrected Global Positioning System (DGPS)		
Horiz coord refsys:	NAD83	Vert measure val:	997.7
Vert measure units:	feet	Vertacc measure val:	.5
Vert accmeasure units:	feet		
Vertcollection method:	Differential Global Positioning System (GPS)r		
Vert coord refsys:	NAVD88	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	860
Construction date:	19970322	Wellholedepth:	900
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 91

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
-----			-----		
2004-11-03	72.33		2004-09-15	89.16	
2004-08-25	87.21		2004-07-15	84.30	
2004-06-14	78.62		2004-05-19	72.15	
2004-04-12	64.90		2004-03-17	64.24	
2004-02-11	61.93		2004-01-22	62.83	
2003-12-16	68.14		2003-11-12	73.86	
2003-10-16	78.86		2003-09-11	88.84	
2003-08-21	86.01		2003-07-03	77.30	
2003-05-29	69.01		2003-04-24	55.10	
2003-03-27	53.87		2003-02-11	70.88	
2003-01-16	63.06		2002-12-12	63.70	
2002-11-20	69.45		2002-10-31	71.42	
2002-09-24	86.43		2002-08-12	83.67	
2002-07-17	83.95		2002-06-12	87.43	
2002-05-22	84.91		2002-05-15	82.52	
2002-04-11	65.46		2002-03-05	53.10	
2002-01-23	52.40		2001-12-20	47.32	
2001-11-21	48.59		2001-10-24	59.14	
2001-09-19	62.37		2001-08-21	68.60	
2001-07-18	60.69		2001-06-12	50.21	
2001-05-17	45.88		2001-04-19	35.97	
2001-03-21	32.76		2001-02-22	33.02	
2001-01-23	34.77		2000-12-19	43.67	
2000-11-22	46.54		2000-10-19	49.60	
2000-09-20	58.81		2000-08-18	59.43	
2000-07-28	57.19		2000-07-07	52.12	
2000-05-18	45.01		2000-04-12	44.50	
2000-03-30	35.93		2000-03-01	37.54	
2000-01-13	46.22		1999-12-09	51.18	
1999-12-07	52.34		1999-11-03	58.07	
1999-10-05	56.98		1999-09-01	59.95	
1999-07-22	58.21		1999-06-25	51.29	
1999-06-08	42.66		1999-05-18	42.20	
1999-05-04	32.95		1999-03-30	27.25	
1999-03-02	25.78		1999-02-02	30.10	
1999-01-05	32.99		1998-12-08	34.28	
1998-11-05	41.11		1998-10-06	40.38	
1998-09-15	44.89		1998-08-13	48.38	
1998-07-16	45.16		1998-06-26	36.52	
1998-06-18	33.68		1998-05-18	24.04	
1998-05-05	30.95		1998-04-02	20.28	
1998-03-05	21.88		1998-01-07	31.48	
1997-12-03	43.42		1997-11-05	60.52	
1997-10-04	64.02		1997-09-24	67.18	
1997-06-04	60.52		1997-05-28	59.68	
1997-05-19	56.88				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

N58
SSW
1/4 - 1/2 Mile
Lower

FED USGS USGS40000140491

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340408117165304		
Monloc name:	001S004W22J004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0694806
Longitude:	-117.2839056	Sourcemap scale:	24000
Horiz Acc measure:	.01	Horiz Acc measure units:	seconds
Horiz Collection method:	Differentially corrected Global Positioning System (DGPS)		
Horiz coord refsys:	NAD83	Vert measure val:	997.8
Vert measure units:	feet	Vertacc measure val:	.5
Vert accmeasure units:	feet		
Vertcollection method:	Differential Global Positioning System (GPS)r		
Vert coord refsys:	NAVD88	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19970322	Welldepth:	45
Welldepth units:	ft	Wellholedepth:	900
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 88

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-11-03	33.37		2004-09-15	34.08	
2004-08-25	33.80		2004-07-15	32.48	
2004-06-14	30.30		2004-05-19	28.82	
2004-04-12	27.22		2004-03-17	26.32	
2004-02-11	27.18		2004-01-22	27.65	
2003-12-16	28.95		2003-11-12	30.37	
2003-10-16	31.86		2003-09-11	32.13	
2003-08-21	31.56		2003-07-03	29.30	
2003-05-29	27.43		2003-04-24	26.45	
2003-03-27	24.44		2003-02-11	27.29	
2003-01-16	26.78		2002-12-12	28.88	
2002-11-20	28.86		2002-10-31	30.57	
2002-08-12	30.50		2002-07-17	30.10	
2002-06-12	32.11		2002-05-22	31.55	
2002-05-15	32.18		2002-04-11	29.44	
2002-03-05	24.15		2002-01-23	25.99	
2001-12-20	25.17		2001-11-21	24.25	
2001-10-24	25.49		2001-09-19	26.35	
2001-08-21	26.32		2001-07-18	23.23	
2001-06-12	20.21		2001-05-17	18.58	
2001-04-19	17.09		2001-03-21	17.28	
2001-02-22	18.84		2001-01-23	20.98	
2000-12-19	23.14		2000-11-22	24.29	
2000-10-19	25.78		2000-09-20	27.58	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2000-08-18	26.90		2000-07-28	25.30	
2000-07-07	21.57		2000-05-18	18.79	
2000-04-12	18.54		2000-03-30	18.30	
2000-03-01	20.85		2000-01-13	24.89	
1999-12-09	26.78		1999-12-07	26.57	
1999-11-03	28.96		1999-10-05	29.38	
1999-09-01	29.73		1999-07-22	26.32	
1999-06-25	24.05		1999-06-08	22.49	
1999-05-04	16.95		1999-03-30	16.44	
1999-03-02	15.75		1999-02-02	18.56	
1999-01-05	18.06		1998-12-08	20.63	
1998-11-05	22.70		1998-10-06	24.93	
1998-09-15	25.67		1998-08-13	23.69	
1998-07-16	22.64		1998-06-26	19.62	
1998-06-18	18.05		1998-05-18	14.79	
1998-05-05	14.99		1998-04-02	14.91	
1998-03-05	15.80		1998-01-07	19.35	
1997-12-03	23.72		1997-11-05	24.44	
1997-10-04	24.58		1997-09-24	24.50	
1997-06-04	21.71		1997-05-28	25.17	

**N59
SSW
1/4 - 1/2 Mile
Lower**

FED USGS

USGS40000140490

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340408117165303		
Monloc name:	001S004W22J003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0694806
Longitude:	-117.2839083	Sourcemap scale:	24000
Horiz Acc measure:	.01	Horiz Acc measure units:	seconds
Horiz Collection method:	Differentially corrected Global Positioning System (DGPS)		
Horiz coord refsys:	NAD83	Vert measure val:	997.8
Vert measure units:	feet	Vertacc measure val:	.5
Vert accmeasure units:	feet		
Vertcollection method:	Differential Global Positioning System (GPS)r		
Vert coord refsys:	NAVD88	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19970322	Welldepth:	260
Welldepth units:	ft	Wellholedepth:	900
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 90

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-11-03	64.91		2004-09-15	79.90	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-08-25	80.22		2004-07-15	79.37	
2004-06-14	71.70		2004-05-19	67.51	
2004-04-12	57.29		2004-03-17	60.63	
2004-02-11	56.60		2004-01-22	55.22	
2003-12-16	58.41		2003-11-12	62.38	
2003-10-16	67.55		2003-09-11	78.02	
2003-08-21	76.63		2003-07-03	72.10	
2003-05-29	65.03		2003-04-24	48.15	
2003-03-27	44.88		2003-02-11	62.81	
2003-01-16	54.55		2002-12-12	52.66	
2002-11-20	59.72		2002-10-31	56.96	
2002-09-24	72.66		2002-08-12	69.82	
2002-07-17	69.88		2002-06-12	69.65	
2002-05-22	67.67		2002-05-15	68.63	
2002-04-11	51.27		2002-03-05	46.63	
2002-01-23	42.14		2001-12-20	39.35	
2001-11-21	41.57		2001-10-24	47.52	
2001-09-19	51.52		2001-08-21	58.54	
2001-07-18	51.66		2001-06-12	43.93	
2001-05-17	40.88		2001-04-19	35.30	
2001-03-21	29.73		2001-02-22	27.71	
2001-01-23	25.13		2000-12-19	35.30	
2000-11-22	39.20		2000-10-19	42.98	
2000-09-20	52.94		2000-08-18	54.12	
2000-07-28	52.60		2000-07-07	47.71	
2000-05-18	40.04		2000-04-12	40.45	
2000-03-30	27.55		2000-03-01	26.91	
2000-01-13	36.53		1999-12-09	39.18	
1999-12-07	39.62		1999-11-03	47.94	
1999-10-05	48.31		1999-09-01	54.05	
1999-07-22	52.12		1999-06-25	45.69	
1999-06-08	35.39		1999-05-04	27.79	
1999-03-30	19.84		1999-03-02	18.70	
1999-02-02	19.69		1999-01-05	30.50	
1998-12-08	24.75		1998-11-05	32.96	
1998-10-06	35.25		1998-09-15	40.86	
1998-08-13	46.25		1998-07-16	42.95	
1998-06-26	35.78		1998-06-18	29.09	
1998-05-18	13.82		1998-05-05	28.96	
1998-04-02	8.51		1998-03-05	13.22	
1998-01-07	18.99		1997-12-03	26.37	
1997-11-05	47.28		1997-10-04	48.98	
1997-09-24	55.72		1997-06-04	53.17	
1997-05-28	46.75		1997-05-19	44.51	

N60
SSW
1/4 - 1/2 Mile
Lower

FED USGS USGS40000140489

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340408117165302		
Monloc name:	001S004W22J002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0694806
Longitude:	-117.2839083	Sourcemap scale:	24000
Horiz Acc measure:	.01	Horiz Acc measure units:	seconds
Horiz Collection method:	Differentially corrected Global Positioning System (DGPS)		
Horiz coord refsys:	NAD83	Vert measure val:	997.7
Vert measure units:	feet	Vertacc measure val:	.5
Vert accmeasure units:	feet		
Vertcollection method:	Differential Global Positioning System (GPS)r		
Vert coord refsys:	NAVD88	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19970322	Welldepth:	540
Welldepth units:	ft	Wellholedepth:	900
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 90

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-11-03	68.08		2004-09-15	93.90	
2004-08-25	101.02		2004-07-15	105.72	
2004-06-14	95.28		2004-05-19	79.73	
2004-04-12	65.26		2004-03-17	81.07	
2004-02-11	62.51		2004-01-22	60.03	
2003-12-16	65.68		2003-11-12	70.38	
2003-10-16	80.35		2003-09-11	106.60	
2003-08-21	105.13		2003-07-03	100.18	
2003-05-29	91.48		2003-04-24	56.45	
2003-03-27	52.94		2003-02-11	88.50	
2003-01-16	75.58		2002-12-12	59.87	
2002-11-20	78.02		2002-10-31	66.50	
2002-09-24	99.95		2002-08-12	97.17	
2002-07-17	98.97		2002-06-12	98.65	
2002-05-22	96.71		2002-05-15	99.08	
2002-04-11	65.30		2002-03-05	66.32	
2002-01-23	49.86		2001-12-20	50.90	
2001-11-21	51.27		2001-10-24	65.07	
2001-09-19	71.46		2001-08-21	87.93	
2001-07-18	76.40		2001-06-12	63.92	
2001-05-17	60.50		2001-04-19	49.51	
2001-03-21	39.50		2001-02-22	34.83	
2001-01-23	29.48		2000-12-19	49.70	
2000-11-22	54.02		2000-10-19	63.38	
2000-09-20	79.13		2000-08-18	79.94	
2000-07-28	80.85		2000-07-07	62.88	
2000-05-18	53.85		2000-04-12	62.54	
2000-03-30	34.83		2000-03-01	31.09	
2000-01-13	43.79		1999-12-09	48.69	
1999-12-07	49.30		1999-11-03	60.75	
1999-10-05	60.83		1999-09-01	68.55	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1999-07-22	76.87		1999-06-25	65.28	
1999-06-08	50.48		1999-05-04	34.15	
1999-03-30	26.06		1999-03-02	25.66	
1999-02-02	21.75		1999-01-05	41.00	
1998-12-08	29.61		1998-11-05	39.88	
1998-10-06	41.53		1998-09-15	47.27	
1998-08-13	68.54		1998-07-16	62.07	
1998-06-26	57.72		1998-06-18	37.05	
1998-05-18	17.68		1998-05-05	42.32	
1998-04-02	9.04		1998-03-05	21.87	
1998-01-07	20.49		1997-12-03	27.64	
1997-11-05	68.70		1997-10-04	68.82	
1997-09-24	80.98		1997-06-04	68.36	
1997-05-28	73.65		1997-05-19	69.70	

**L61
NNW
1/4 - 1/2 Mile
Higher**

CA WELLS CADW60000017124

Objectid: 17124
 Latitude: 34.0775
 Longitude: -117.2851
 Site code: 340775N1172851W001
 State well numbe: 01S04W22B001S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000017124

**L62
NW
1/4 - 1/2 Mile
Lower**

CA WELLS CADW60000003249

Objectid: 3249
 Latitude: 34.0772
 Longitude: -117.2857
 Site code: 340772N1172857W001
 State well numbe: 01S04W22B006S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW6000003249

63
SW
1/4 - 1/2 Mile
Lower

CA WELLS 922

Water System Information:

Prime Station Code:	01S/04W-22G14 S	User ID:	WAT
FRDS Number:	3310031086	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Agricultural/Irrigation Well
Source Lat/Long:	340416.3 1171710.2	Precision:	10 Feet (1/10 Second)
Source Name:	THORNE WELL 03 - AGRICULTURAL		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		

N64
SSW
1/4 - 1/2 Mile
Lower

CA WELLS CADW60000017135

Objectid: 17135
 Latitude: 34.0695
 Longitude: -117.2848
 Site code: 340695N1172848W002
 State well numbe: 01S04W22J002S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000017135

N65
SSW
1/4 - 1/2 Mile
Lower

CA WELLS CADW60000017134

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid: 17134
Latitude: 34.0695
Longitude: -117.2848
Site code: 340695N1172848W001
State well numbe: 01S04W22J001S
Local well name: "
Well use id: 6
Well use descrip: Unknown
County id: 36
County name: San Bernardino
Basin code: '8-2.06'
Basin desc: Bunker Hill
Dwr region id: 80238
Dwr region: Southern Region Office
Site id: CADW60000017134

N66
SSW
1/4 - 1/2 Mile
Lower

CA WELLS CADW60000019285

Objectid: 19285
Latitude: 34.0695
Longitude: -117.2848
Site code: 340695N1172848W004
State well numbe: 01S04W22J004S
Local well name: "
Well use id: 6
Well use descrip: Unknown
County id: 36
County name: San Bernardino
Basin code: '8-2.06'
Basin desc: Bunker Hill
Dwr region id: 80238
Dwr region: Southern Region Office
Site id: CADW60000019285

N67
SSW
1/4 - 1/2 Mile
Lower

CA WELLS CADW60000017136

Objectid: 17136
Latitude: 34.0695
Longitude: -117.2848
Site code: 340695N1172848W003
State well numbe: 01S04W22J003S
Local well name: "
Well use id: 6
Well use descrip: Unknown
County id: 36
County name: San Bernardino

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000017136

68
ENE
1/4 - 1/2 Mile
Higher

FED USGS USGS40000140626

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340430117163301		
Monloc name:	001S004W23D004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0750129
Longitude:	-117.2767089	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1015.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	70
Welldepth units:	ft	Wellholedepth:	70
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

N69
SSW
1/4 - 1/2 Mile
Higher

FED USGS USGS40000140492

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340408117170001		
Monloc name:	001S004W22M004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.068902
Longitude:	-117.2842092	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	979.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	68
Construction date:	Not Reported	Wellholedepth:	68
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

70
East
1/4 - 1/2 Mile
Higher

FED USGS

USGS40000140584

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340424117163101		
Monloc name:	001S004W23E002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0733463
Longitude:	-117.2761534	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1008.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	554
Welldepth units:	ft	Wellholedepth:	554
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

O71
NW
1/4 - 1/2 Mile
Lower

FED USGS

USGS40000140678

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340439117171201		
Monloc name:	001S004W22B002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0775128
Longitude:	-117.2875427	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	991.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	1125
Construction date:	19290101	Wellholedepth:	1162
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 508

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-03-31	152.40		1969-11-28	151.50	
1969-01-03	200.80		1968-05-03	163.80	
1967-11-30	192.80		1967-09-08	185.80	
1967-08-04	169.80		1967-07-07	161.80	
1967-06-02	151.80		1967-05-05	139.80	
1967-04-07	154.80		1967-03-03	155.80	
1967-02-03	159.80		1967-01-06	167.80	
1966-12-02	188.80		1966-11-04	203.80	
1966-10-07	204.80		1966-09-23	202.80	
1966-08-12	194.80		1966-07-15	186.80	
1966-06-17	176.80		1966-05-20	166.80	
1966-04-15	153.80		1966-03-18	135.80	
1966-02-25	136.80		1966-01-28	150.80	
1965-12-24	170.80		1965-11-19	197.80	
1965-10-22	206.80		1965-09-24	202.40	
1965-06-25	172.10		1965-06-11	168.80	
1965-05-28	160.10		1965-05-14	157.70	
1965-04-30	139.80		1965-04-16	145.80	
1965-04-02	162.70		1965-03-19	162.10	
1965-03-05	162.80		1965-02-19	165.80	
1965-02-05	156.40		1965-01-15	157.70	
1965-01-02	168.80		1964-12-18	184.80	
1964-12-04	170.10		1964-11-20	176.80	
1964-11-06	168.30		1964-10-23	175.40	
1964-10-09	174.80		1964-09-25	171.70	
1964-09-11	173.80		1964-08-28	169.80	
1964-08-14	167.10		1964-07-31	164.10	
1964-07-10	158.40				
1964-06-12	184.80				
Note: The site was being pumped.					
1964-05-15	175.10				
Note: The site was being pumped.					
1964-05-01	135.70				
1964-04-10	164.80				
Note: The site was being pumped.					
1964-03-13	136.70				
1964-02-14	166.80				
Note: The site was being pumped.					
1964-01-10	174.10				
Note: The site was being pumped.					
1963-12-13	121.10		1963-11-29	129.40	
1963-11-15	145.40		1963-11-01	135.80	
1963-10-18	145.40		1963-10-04	143.70	
1963-09-13	175.10				
Note: The site was being pumped.					
1963-08-30	174.80				
Note: The site was being pumped.					
1963-08-16	176.10				
Note: The site was being pumped.					
1963-08-01	175.10				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1963-07-12	178.80				
Note: The site was being pumped.					
1963-06-21	133.80		1963-06-07	123.70	
1963-05-24	116.70		1963-05-10	110.40	
1963-04-26	106.10		1963-03-29	117.80	
1963-03-15	118.80		1963-03-07	120.50	
1963-03-01	140.40		1963-02-08	140.40	
1963-01-26	147.80				
Note: The site was being pumped.					
1962-12-21	122.80		1962-12-08	113.40	
1962-12-04	133.50				
1962-11-23	165.40				
Note: The site was being pumped.					
1962-11-09	111.80		1962-11-02	129.20	
1962-10-26	125.80				
1962-10-12	165.40				
Note: The site was being pumped.					
1962-09-28	129.80				
1962-09-14	162.10				
Note: The site was being pumped.					
1962-08-31	161.40				
Note: The site was being pumped.					
1962-08-17	160.80				
Note: The site was being pumped.					
1962-08-03	161.80				
Note: The site was being pumped.					
1962-07-20	123.40				
1962-06-29	139.80				
Note: The site was being pumped.					
1962-06-15	108.80		1962-06-01	108.30	
1962-05-18	107.80				
1962-05-04	139.80				
Note: The site was being pumped.					
1962-04-13	79.80		1962-03-30	82.80	
1962-03-16	74.80		1962-03-02	79.80	
1962-02-22	78.80		1962-02-02	109.80	
1962-01-05	100.80		1961-12-22	108.60	
1961-12-08	114.30		1961-11-17	128.80	
1961-11-03	132.80		1961-10-13	128.80	
1961-09-29	120.30		1961-09-15	118.80	
1961-09-01	119.30				
1961-08-18	162.80				
Note: The site was being pumped.					
1961-08-04	156.80				
Note: The site was being pumped.					
1961-07-14	158.80				
Note: The site was being pumped.					
1961-06-30	115.80				
1961-06-16	139.80				
Note: The site was being pumped.					
1961-06-02	111.80		1961-05-12	110.80	
1961-05-05	99.40		1961-04-14	112.80	
1961-03-31	100.80		1961-03-16	105.80	
1961-03-03	138.80				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1961-02-17	106.80		1961-02-03	93.80	
1961-01-20	103.80		1961-01-06	113.80	
1960-12-23	101.80		1960-11-25	103.70	
1960-11-11	87.80		1960-10-28	97.40	
1960-10-14	100.80		1960-09-30	97.40	
1960-09-14	144.10				
Note: The site was being pumped.					
1960-09-02	145.80				
Note: The site was being pumped.					
1960-08-19	144.70				
Note: The site was being pumped.					
1960-08-05	139.80				
Note: The site was being pumped.					
1960-07-15	140.80				
Note: The site was being pumped.					
1960-07-01	136.80				
Note: The site was being pumped.					
1960-06-24	129.80				
Note: The site was being pumped.					
1960-06-10	109.80				
1960-05-27	132.30				
Note: The site was being pumped.					
1960-05-20	127.80				
Note: The site was being pumped.					
1960-04-29	59.80				
1960-04-15	131.60				
Note: The site was being pumped.					
1960-04-01	119.80				
Note: The site was being pumped.					
1960-03-18	34.80		1960-03-04	36.80	
1960-02-19	55.10		1960-01-29	54.80	
1960-01-15	62.60		1960-01-03	76.30	
1959-12-18	97.30		1959-12-04	100.30	
1959-11-13	101.10		1959-11-02	100.60	
1959-10-19	111.10		1959-10-02	107.10	
1959-09-25	110.60		1959-09-18	127.80	
1959-09-11	141.80				
Note: The site was being pumped.					
1959-09-04	143.30				
Note: The site was being pumped.					
1959-08-28	143.30				
Note: The site was being pumped.					
1959-08-21	144.80				
Note: The site was being pumped.					
1959-08-14	145.10				
Note: The site was being pumped.					
1959-08-07	145.10				
Note: The site was being pumped.					
1959-07-31	145.30				
Note: The site was being pumped.					
1959-07-24	145.30				
Note: The site was being pumped.					
1959-07-17	145.30				
Note: The site was being pumped.					
1959-07-10	145.60				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-07-03	145.60				
Note: The site was being pumped.					
1959-06-26	144.40				
Note: The site was being pumped.					
1959-06-19	144.10				
Note: The site was being pumped.					
1959-06-12	143.40				
Note: The site was being pumped.					
1959-06-05	143.80				
Note: The site was being pumped.					
1959-05-22	138.70				
Note: The site was being pumped.					
1959-05-15	136.40				
Note: The site was being pumped.					
1959-05-08	140.10				
Note: The site was being pumped.					
1959-05-01	84.70				
1959-04-24	136.80				
Note: The site was being pumped.					
1959-04-17	69.80		1959-04-10	59.80	
1959-03-27	59.70		1959-03-13	52.40	
1959-02-20	59.40		1959-02-06	88.70	
1959-01-23	75.80		1959-01-02	92.40	
1958-12-19	99.80		1958-12-05	97.10	
1958-11-21	132.80				
Note: The site was being pumped.					
1958-11-07	146.10				
Note: The site was being pumped.					
1958-10-24	100.40				
1958-10-17	143.70				
Note: The site was being pumped.					
1958-10-10	97.80				
1958-10-03	140.80				
Note: The site was being pumped.					
1958-09-26	143.80				
Note: The site was being pumped.					
1958-09-19	142.80				
Note: The site was being pumped.					
1958-09-13	102.80				
1958-09-05	144.80				
Note: The site was being pumped.					
1958-08-29	143.70				
Note: The site was being pumped.					
1958-08-22	136.40				
Note: The site was being pumped.					
1958-08-16	123.80				
Note: The site was being pumped.					
1958-08-08	136.10				
Note: The site was being pumped.					
1958-08-01	134.10				
Note: The site was being pumped.					
1958-07-25	137.80				
Note: The site was being pumped.					
1958-07-18	136.40				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-07-11	134.70				
Note: The site was being pumped.					
1958-07-04	129.40				
Note: The site was being pumped.					
1958-06-27	128.10				
Note: The site was being pumped.					
1958-06-20	126.10				
Note: The site was being pumped.					
1958-06-13	110.30				
Note: The site was being pumped.					
1958-06-06	121.80				
Note: The site was being pumped.					
1958-05-30	125.80				
Note: The site was being pumped.					
1958-05-23	111.80				
Note: The site was being pumped.					
1958-05-16	45.80		1958-05-09	47.80	
1958-04-25	19.80		1958-04-10	20.30	
1958-03-29	20.30		1958-03-14	27.60	
1958-02-21	39.30		1958-02-07	50.30	
1958-01-24	118.80				
Note: The site was being pumped.					
1958-01-13	59.60		1957-12-27	61.30	
1957-12-13	88.80				
1957-11-29	147.80				
Note: The site was being pumped.					
1957-11-15	70.10		1957-11-01	90.80	
1957-10-18	154.10				
Note: The site was being pumped.					
1957-10-04	137.80				
Note: The site was being pumped.					
1957-09-28	154.60				
Note: The site was being pumped.					
1957-09-20	159.60				
Note: The site was being pumped.					
1957-09-13	160.10				
Note: The site was being pumped.					
1957-09-06	152.80				
Note: The site was being pumped.					
1957-08-30	153.80				
Note: The site was being pumped.					
1957-08-23	151.30				
Note: The site was being pumped.					
1957-08-19	150.80				
Note: The site was being pumped.					
1957-08-16	149.80				
Note: The site was being pumped.					
1957-08-09	143.30				
Note: The site was being pumped.					
1957-08-02	141.80				
Note: The site was being pumped.					
1957-07-26	144.30				
Note: The site was being pumped.					
1957-07-19	108.30				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1957-06-28	73.00		1957-06-21	72.70	
1957-06-12	70.00		1957-05-25	69.30	
1957-05-10	53.00		1957-04-26	41.00	
1957-04-12	53.00		1957-04-01	28.50	
1957-03-15	27.00		1957-03-01	32.50	
1957-02-15	40.20		1957-02-04	45.80	
1957-01-21	54.50		1957-01-04	94.80	
1956-12-14	98.60		1956-11-30	99.30	
1956-11-16	102.00		1956-11-02	103.80	
1956-10-19	103.80		1956-10-05	103.30	
1956-09-21	102.00		1956-09-07	100.50	
1956-08-24	100.50		1956-08-10	99.00	
1956-07-27	96.30				
1956-07-13	91.00				
Note: The site was being pumped.					
1956-06-29	91.00				
Note: The site was being pumped.					
1956-06-15	86.00				
Note: The site was being pumped.					
1954-06-01	46.90		1954-04-01	12.70	
1954-03-01	15.60		1954-02-01	21.00	
1954-01-04	42.20		1953-10-01	68.20	
1953-05-01	23.10		1953-03-02	18.70	
1953-02-02	8.70		1953-01-01	9.70	
1952-12-01	18.90		1952-06-04	27.50	
1952-05-01	11.70		1952-04-01	7.80	
1952-03-03	9.80		1952-02-01	9.80	
1952-01-02	12.90		1951-12-03	43.10	
1951-11-01	45.70		1951-06-01	27.20	
1951-05-01	21.00		1951-04-02	18.00	
1951-03-01	15.90		1951-02-01	11.60	
1951-01-02	20.30		1950-12-01	22.60	
1950-11-01	37.90		1950-10-02	37.50	
1950-09-01	38.40		1950-08-01	37.40	
1950-07-14	36.20		1950-06-01	24.60	
1950-05-01	18.90		1950-04-14	14.40	
1950-03-29	15.06		1950-03-01	5.60	
1950-02-01	7.40		1950-01-03	10.40	
1949-12-01	16.00		1949-11-01	24.00	
1949-10-01	27.30		1949-05-16	16.70	
1949-04-01	13.70		1949-03-01	6.30	
1949-02-01	7.30		1949-01-14	10.30	
1948-12-01	22.10		1948-11-16	22.90	
1948-11-01	19.80		1948-10-01	41.20	
1948-06-01	19.60		1948-05-01	15.10	
1948-04-01	13.40		1948-03-01	9.80	
1948-02-02	14.10		1948-01-02	12.70	
1947-12-01	14.90		1947-11-01	15.70	
1947-10-01	20.30		1947-06-02	15.70	
1947-05-01	14.00		1947-02-01	10.50	
1947-01-02	5.00		1946-12-02	6.00	
1946-11-01	13.00		1946-10-01	36.00	
1946-09-03	85.00				
Note: The site was being pumped.					
1946-08-01	91.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1946-07-01	92.00				
Note: The site was being pumped.					
1946-06-01	13.00		1946-05-15	14.00	
1946-04-15	9.00		1946-03-15	18.00	
1946-02-15	17.00		1946-01-16	6.00	
1945-12-14	13.00		1945-11-15	15.00	
1945-10-15	15.50				
1945-09-14	94.00				
Note: The site was being pumped.					
1945-08-01	94.00				
Note: The site was being pumped.					
1945-07-16	94.00				
Note: The site was being pumped.					
1945-06-15	14.00		1945-05-15	13.00	
1945-04-16	5.00		1945-03-15	4.00	
1945-02-15	5.50		1945-01-15	9.00	
1944-12-15	9.00		1944-11-15	9.00	
1944-10-16	15.00		1944-09-18	16.50	
1944-08-15	91.50				
Note: The site was being pumped.					
1944-08-01	16.00		1944-07-18	15.00	
1944-06-15	15.00		1944-05-17	14.00	
1944-04-29	13.00		1944-04-01	3.50	
1944-03-02	4.00		1944-01-31	5.00	
1944-01-02	5.50		1943-12-01	14.00	
1943-11-01	14.00		1943-10-01	15.00	
1943-08-31	15.50		1943-07-31	17.00	
1943-06-30	15.50		1943-06-01	14.00	
1943-05-01	7.00		1943-04-02	3.00	
1943-03-02	5.00		1943-02-01	7.00	
1942-12-31	7.50		1942-11-30	14.00	
1942-11-01	14.00		1942-09-30	15.00	
1942-09-01	16.00		1942-08-03	17.00	
1942-07-02	15.00		1942-06-01	14.50	
1942-05-01	13.00		1942-04-15	11.00	
1942-04-01	10.00		1942-03-16	9.00	
1942-03-02	11.50		1942-02-16	11.50	
1942-02-02	4.00		1942-01-15	3.00	
1942-01-02	4.00		1941-12-15	5.50	
1941-12-01	12.00		1941-11-17	9.00	
1941-10-31	6.00		1941-10-15	13.00	
1941-10-01	14.00		1941-09-02	14.00	
1941-08-01	14.00		1941-07-01	11.00	
1941-06-15	11.00		1941-05-15	9.00	
1941-05-02	5.00		1941-04-15	6.50	
1941-04-04	5.00		1941-03-03	2.50	
1941-02-03	5.00		1941-01-06	7.00	
1940-11-29	11.00		1940-11-01	10.00	
1940-10-01	19.00		1940-09-03	25.00	
1940-08-01	23.00		1940-07-01	23.00	
1940-06-03	15.00		1940-05-01	14.00	
1940-04-15	9.00		1940-04-01	10.00	
1940-03-01	5.00		1940-02-05	6.00	
1940-01-02	11.50		1939-12-01	15.00	
1939-11-01	15.00		1939-10-02	17.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1939-09-02	19.00		1939-08-01	16.00	
1939-06-30	15.00		1939-06-02	14.50	
1939-05-01	14.00		1939-04-04	8.00	
1939-03-01	5.00		1939-02-01	5.50	
1939-01-04	6.50		1938-12-01	16.00	
1938-11-01	14.00		1938-09-30	15.50	
1938-09-06	16.50		1938-08-02	15.00	
1938-07-01	16.50		1938-06-01	14.00	
1938-05-02	13.00		1938-02-01	9.50	
1938-01-03	9.00		1937-12-01	21.50	
1937-11-01	28.00		1937-10-01	34.50	
1937-09-01	29.00		1937-08-02	28.00	
1937-07-01	20.00		1937-06-01	16.00	
1937-05-03	13.00		1937-04-01	5.50	
1937-03-01	6.00		1937-02-01	8.00	
1937-01-04	9.00		1936-12-01	17.50	
1936-11-02	13.00		1936-10-01	41.00	
1936-09-03	37.00		1936-08-17	40.00	
1936-06-01	32.50		1936-04-01	16.00	
1936-03-02	9.00		1936-02-03	15.50	
1936-01-02	15.00		1935-12-16	18.00	
1935-11-05	29.00		1935-10-14	33.50	
1935-09-16	39.00		1935-06-03	20.00	
1935-05-01	18.00		1935-04-01	7.00	
1935-03-01	7.50		1935-02-18	7.00	
1935-01-16	9.00		1934-11-30	11.00	
1934-11-01	19.00		1934-10-01	37.00	
1934-09-04	38.50		1934-07-01	23.00	
1934-06-01	24.50		1934-05-02	20.50	
1934-04-02	19.00		1934-03-01	7.00	
1934-02-01	7.00		1934-01-02	7.50	
1933-12-01	21.00		1933-10-02	21.00	
1933-08-21	22.00		1933-07-03	21.00	
1933-06-19	21.00				

P72
WNW
1/4 - 1/2 Mile
Lower

FED USGS USGS40000140651

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340434117171601		
Monloc name:	001S004W22C002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0761239
Longitude:	-117.2886538	Sourcemap scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	986.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19580101	Welldepth:	458
Welldepth units:	ft	Wellholedepth:	470
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 48

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel

1971-06-16	104.30		1971-06-01	104.00	
1970-03-23	93.50		1969-11-13	133.00	
1969-04-24	140.00		1969-01-09	173.00	
1968-04-18	143.30		1967-11-24	167.00	
1967-04-27	127.00		1966-12-13	161.00	
1966-09-08	162.00				
Note: The site was being pumped.					
1966-07-13	146.00		1966-04-13	122.00	
1966-02-10	129.60		1965-11-18	159.00	
1965-08-27	152.50		1965-05-06	122.00	
1965-04-07	130.60		1965-02-12	131.60	
1964-11-24	141.80		1964-08-13	131.60	
1964-04-08	98.20		1964-02-27	102.50	
1963-11-29	105.80				
1963-10-25	130.00				
Note: A nearby site that taps the same aquifer was being pumped.					
1963-10-11	110.00				
1963-09-13	129.70				
Note: A nearby site that taps the same aquifer was being pumped.					
1963-08-02	114.20		1963-03-21	94.40	
1963-03-07	95.20				
1963-01-07	114.00				
Note: The site was being pumped.					
1963-01-04	117.70				
Note: A nearby site that taps the same aquifer was being pumped.					
1962-12-04	111.90				
Note: The site was being pumped.					
1962-11-02	115.20				
Note: The site was being pumped.					
1962-10-11	106.00		1962-10-05	110.00	
1962-06-15	90.00		1962-03-13	100.00	
1961-12-15	93.50		1961-09-21	100.00	
1961-06-15	105.00				
Note: The site was being pumped.					
1961-03-07	93.80		1960-12-09	70.40	
1960-09-27	98.00		1960-06-17	70.00	
1960-03-15	79.00		1959-12-17	87.20	
1958-05-17	31.00				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

O73
NW
 1/4 - 1/2 Mile
 Lower

CA WELLS CADW60000003247

Objectid: 3247
 Latitude: 34.0775
 Longitude: -117.2884
 Site code: 340775N1172884W001
 State well numbe: 01S04W22B002S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000003247

Q74
NE
 1/4 - 1/2 Mile
 Higher

CA WELLS 910

Water System Information:

Prime Station Code: 01S/04W-14N09 S	User ID: WAT
FRDS Number: 3310031081	County: Riverside
District Number: 14	Station Type: WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type: Well/Groundwater	Well Status: Active Raw
Source Lat/Long: 340438.5 1171631.1	Precision: 10 Feet (1/10 Second)
Source Name: RAUB WELL 05	
System Number: 3310031	
System Name: Riverside, City of	
Organization That Operates System: 3900 MAIN STREET RIVERSIDE, CA 92522	
Pop Served: 245000	Connections: 58586
Area Served: RIVERSIDE	
Sample Collected: 04-FEB-11	Findings: 4.1 UG/L
Chemical: PERCHLORATE	
Sample Collected: 03-MAR-11	Findings: 29. PCI/L
Chemical: GROSS ALPHA	
Sample Collected: 03-MAR-11	Findings: 24. PCI/L
Chemical: URANIUM (PCI/L)	
Sample Collected: 09-JUN-11	Findings: 31.7 PCI/L
Chemical: GROSS ALPHA	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09-JUN-11	Findings:	3.59 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-JUN-11	Findings:	31. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	21-JUL-11	Findings:	12. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	21-JUL-11	Findings:	2.44 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	21-JUL-11	Findings:	28. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-AUG-11	Findings:	17. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	17-AUG-11	Findings:	3.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	17-AUG-11	Findings:	24. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-AUG-11	Findings:	2.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-AUG-11	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-AUG-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	16-SEP-11	Findings:	23. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	16-SEP-11	Findings:	3.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	16-SEP-11	Findings:	23. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	16-SEP-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	14-OCT-11	Findings:	22.5 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	14-OCT-11	Findings:	3.93 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-OCT-11	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-NOV-11	Findings:	18. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	17-NOV-11	Findings:	3.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	17-NOV-11	Findings:	18. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-NOV-11	Findings:	1.9e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	17-NOV-11	Findings:	1.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-NOV-11	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-NOV-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	22-DEC-11	Findings:	15. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	22-DEC-11	Findings:	3.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	22-DEC-11	Findings:	15. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	22-DEC-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-JAN-12	Findings:	15. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	19-JAN-12	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-JAN-12	Findings:	16. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-JAN-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	16-FEB-12	Findings:	16. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	16-FEB-12	Findings:	3.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	16-FEB-12	Findings:	16. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	16-FEB-12	Findings:	2.1e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	16-FEB-12	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-FEB-12	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-FEB-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	09-MAR-12	Findings:	15. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-MAR-12	Findings:	3.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-MAR-12	Findings:	18. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-MAR-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12-APR-12	Findings:	14. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12-APR-12	Findings:	3.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-APR-12	Findings:	16. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-APR-12	Findings:	4.3 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	12-APR-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	04-MAY-12	Findings:	10. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	04-MAY-12	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04-MAY-12	Findings:	17. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	04-MAY-12	Findings:	1.6e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	04-MAY-12	Findings:	1.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-MAY-12	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-MAY-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	07-JUN-12	Findings:	27.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07-JUN-12	Findings:	3.95 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07-JUN-12	Findings:	30. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	02-AUG-12	Findings:	26.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	02-AUG-12	Findings:	3.81 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02-AUG-12	Findings:	30. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	02-AUG-12	Findings:	2.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-AUG-12	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-SEP-12	Findings:	1.6 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	13-SEP-12	Findings:	28. PCI/L
Chemical:	GROSS ALPHA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	13-SEP-12	Findings:	4.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	13-SEP-12	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	13-SEP-12	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-SEP-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	12-OCT-12	Findings:	19. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12-OCT-12	Findings:	3.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-OCT-12	Findings:	21. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-OCT-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	09-NOV-12	Findings:	9.1 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-NOV-12	Findings:	3.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-NOV-12	Findings:	14. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-NOV-12	Findings:	0.51 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-NOV-12	Findings:	1.7e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	09-NOV-12	Findings:	1.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-NOV-12	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-NOV-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-MAR-13	Findings:	14. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	15-MAR-13	Findings:	3.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	15-MAR-13	Findings:	18. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	15-MAR-13	Findings:	1.2e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	15-MAR-13	Findings:	1.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-MAR-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	15-MAR-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	11-APR-13	Findings:	18. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11-APR-13	Findings:	3.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11-APR-13	Findings:	19. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	11-APR-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-JUN-13	Findings:	18. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06-JUN-13	Findings:	4. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-JUN-13	Findings:	29. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	06-JUN-13	Findings:	2.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-JUN-13	Findings:	9.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-JUN-13	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	05-JUL-13	Findings:	22.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	05-JUL-13	Findings:	3.52 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05-JUL-13	Findings:	31. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	16-AUG-13	Findings:	18. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	16-AUG-13	Findings:	2.96 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	16-AUG-13	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	16-AUG-13	Findings:	800. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	16-AUG-13	Findings:	7.7
Chemical:	PH, LABORATORY		
Sample Collected:	16-AUG-13	Findings:	200. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	16-AUG-13	Findings:	240. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	16-AUG-13	Findings:	370. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	16-AUG-13	Findings:	120. MG/L
Chemical:	CALCIUM		
Sample Collected:	16-AUG-13	Findings:	18. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	16-AUG-13	Findings:	34. MG/L
Chemical:	SODIUM		
Sample Collected:	16-AUG-13	Findings:	3.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	16-AUG-13	Findings:	0.4 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	16-AUG-13	Findings:	120. UG/L
Chemical:	BORON		
Sample Collected:	16-AUG-13	Findings:	4.4 UG/L
Chemical:	VANADIUM		
Sample Collected:	16-AUG-13	Findings:	31. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	16-AUG-13	Findings:	2.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-AUG-13	Findings:	550. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	16-AUG-13	Findings:	1.1
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	16-AUG-13	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	21-AUG-13	Findings:	19. MG/L
Chemical:	CHLORIDE		
Sample Collected:	21-AUG-13	Findings:	190. MG/L
Chemical:	SULFATE		
Sample Collected:	21-AUG-13	Findings:	9. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-13	Findings:	2000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	12-SEP-13	Findings:	37. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12-SEP-13	Findings:	7.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-SEP-13	Findings:	29. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-SEP-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-SEP-13	Findings:	26. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	19-SEP-13	Findings:	5.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	19-SEP-13	Findings:	25. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-SEP-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	11-OCT-13	Findings:	24. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11-OCT-13	Findings:	5.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11-OCT-13	Findings:	22. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	11-OCT-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-NOV-13	Findings:	18. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	21-NOV-13	Findings:	4.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	21-NOV-13	Findings:	15. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	21-NOV-13	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-NOV-13	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-NOV-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	12-DEC-13	Findings:	17. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12-DEC-13	Findings:	4.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-DEC-13	Findings:	17. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-DEC-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	09-JAN-14	Findings:	9.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-JAN-14	Findings:	3.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-JAN-14	Findings:	15. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-JAN-14	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-JAN-14	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-JAN-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	13-FEB-14	Findings:	11. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	13-FEB-14	Findings:	3.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	13-FEB-14	Findings:	17. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	13-FEB-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-FEB-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	14-MAR-14	Findings:	16. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	14-MAR-14	Findings:	3.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-MAR-14	Findings:	17. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	14-MAR-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	04-APR-14	Findings:	9.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	04-APR-14	Findings:	3.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04-APR-14	Findings:	15. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	04-APR-14	Findings:	1.4e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	04-APR-14	Findings:	0.99 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-APR-14	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-APR-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	16-MAY-14	Findings:	27. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	16-MAY-14	Findings:	4.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	16-MAY-14	Findings:	25. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	16-MAY-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	22-MAY-14	Findings:	1.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-MAY-14	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-JUL-14	Findings:	23. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10-JUL-14	Findings:	0.56 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-JUL-14	Findings:	34. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-JUL-14	Findings:	1.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-JUL-14	Findings:	7.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-14	Findings:	0.35 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-MAR-15	Findings:	37. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	19-MAR-15	Findings:	0.44 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-MAR-15	Findings:	37. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-MAR-15	Findings:	1.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-MAR-15	Findings:	7.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-MAR-15	Findings:	1.4 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-JAN-11	Findings:	35. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	13-JAN-11	Findings:	20. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	13-JAN-11	Findings:	4.3 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-FEB-11	Findings:	21. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	04-FEB-11	Findings:	21. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	04-FEB-11	Findings:	3.6e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	04-FEB-11	Findings:	2.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-FEB-11	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		

Q75
ENE
1/4 - 1/2 Mile
Higher

CA WELLS 933

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Water System Information:

Prime Station Code:	01S/04W-23C03 S	User ID:	WAT
FRDS Number:	3310031080	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340435.7 1171629.0	Precision:	10 Feet (1/10 Second)
Source Name:	RAUB WELL 04		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		
Sample Collected:	06-JAN-11	Findings:	5.4 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06-JAN-11	Findings:	5.9 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	06-JAN-11	Findings:	8.e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	06-JAN-11	Findings:	1.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-JAN-11	Findings:	33. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-JAN-11	Findings:	13. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-FEB-11	Findings:	7.2e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	04-FEB-11	Findings:	35. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-FEB-11	Findings:	14. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	03-MAR-11	Findings:	8.5e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	03-MAR-11	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-MAR-11	Findings:	13. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	08-APR-11	Findings:	4.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	08-APR-11	Findings:	2.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08-APR-11	Findings:	6. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	08-APR-11	Findings:	6.1e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08-APR-11	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-APR-11	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-APR-11	Findings:	12. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	08-APR-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	12-MAY-11	Findings:	6.3e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	12-MAY-11	Findings:	33. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-MAY-11	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-JUN-11	Findings:	6.2e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	09-JUN-11	Findings:	33. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-JUN-11	Findings:	9.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	21-JUL-11	Findings:	6.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	21-JUL-11	Findings:	2.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	21-JUL-11	Findings:	6.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	21-JUL-11	Findings:	6.9e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	21-JUL-11	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-JUL-11	Findings:	33. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-JUL-11	Findings:	9.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	21-JUL-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	17-AUG-11	Findings:	3.1e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	17-AUG-11	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-AUG-11	Findings:	9.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	07-OCT-11	Findings:	7.3 PCI/L
Chemical:	GROSS ALPHA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07-OCT-11	Findings:	2.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07-OCT-11	Findings:	6. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	07-OCT-11	Findings:	4.3e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	07-OCT-11	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-OCT-11	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-OCT-11	Findings:	7.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	07-OCT-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	03-NOV-11	Findings:	5.2e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	03-NOV-11	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-NOV-11	Findings:	9. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	02-DEC-11	Findings:	5.2e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	02-DEC-11	Findings:	33. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-DEC-11	Findings:	9.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	12-JAN-12	Findings:	5.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12-JAN-12	Findings:	2.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-JAN-12	Findings:	6. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-JAN-12	Findings:	4.2e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	12-JAN-12	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-JAN-12	Findings:	32. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-JAN-12	Findings:	9.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	12-JAN-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	03-FEB-12	Findings:	4.2e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-FEB-12	Findings:	32. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-FEB-12	Findings:	9.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	01-MAR-12	Findings:	1.7e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	01-MAR-12	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-MAY-12	Findings:	8.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10-MAY-12	Findings:	3.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-MAY-12	Findings:	8. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-MAY-12	Findings:	3.8e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	10-MAY-12	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-MAY-12	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-MAY-12	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	10-MAY-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	07-JUN-12	Findings:	4.4e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	07-JUN-12	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUN-12	Findings:	9.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	02-AUG-12	Findings:	6.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	02-AUG-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02-AUG-12	Findings:	6.1 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	02-AUG-12	Findings:	3.3e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	02-AUG-12	Findings:	0.83 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-AUG-12	Findings:	28. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-AUG-12	Findings:	8. UG/L
Chemical:	PERCHLORATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02-AUG-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-SEP-12	Findings:	3.4 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	13-SEP-12	Findings:	4.e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	13-SEP-12	Findings:	28. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-SEP-12	Findings:	7.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	16-OCT-12	Findings:	2.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	16-OCT-12	Findings:	5.9 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	16-OCT-12	Findings:	3.5e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	16-OCT-12	Findings:	0.89 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-OCT-12	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-OCT-12	Findings:	6.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	16-OCT-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-MAR-13	Findings:	6.5 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	15-MAR-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	15-MAR-13	Findings:	6.2 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	15-MAR-13	Findings:	4.e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	15-MAR-13	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-MAR-13	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-MAR-13	Findings:	9.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	15-MAR-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	11-APR-13	Findings:	3.5e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	11-APR-13	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11-APR-13	Findings:	9.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-JUN-13	Findings:	3.9 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06-JUN-13	Findings:	2.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-JUN-13	Findings:	5.8 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	06-JUN-13	Findings:	3.2e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	06-JUN-13	Findings:	0.93 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-JUN-13	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-JUN-13	Findings:	8.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-JUN-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	11-JUL-13	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	11-JUL-13	Findings:	380. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11-JUL-13	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	11-JUL-13	Findings:	68. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	11-JUL-13	Findings:	82. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11-JUL-13	Findings:	190. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	11-JUL-13	Findings:	63. MG/L
Chemical:	CALCIUM		
Sample Collected:	11-JUL-13	Findings:	7.6 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11-JUL-13	Findings:	30. MG/L
Chemical:	SODIUM		
Sample Collected:	11-JUL-13	Findings:	2.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	11-JUL-13	Findings:	25. MG/L
Chemical:	CHLORIDE		
Sample Collected:	11-JUL-13	Findings:	41. MG/L
Chemical:	SULFATE		
Sample Collected:	11-JUL-13	Findings:	0.45 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11-JUL-13	Findings:	5.2 UG/L
Chemical:	VANADIUM		
Sample Collected:	11-JUL-13	Findings:	5.5 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11-JUL-13	Findings:	2.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11-JUL-13	Findings:	5.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	11-JUL-13	Findings:	3.5e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	11-JUL-13	Findings:	0.89 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-JUL-13	Findings:	330. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11-JUL-13	Findings:	0.72
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	11-JUL-13	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-JUL-13	Findings:	0.63 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	11-JUL-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	11-JUL-13	Findings:	6000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	11-JUL-13	Findings:	7. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	11-JUL-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-AUG-13	Findings:	0.51 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-AUG-13	Findings:	2.2e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	15-AUG-13	Findings:	0.87 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-AUG-13	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-AUG-13	Findings:	6. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	12-SEP-13	Findings:	2.8e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	12-SEP-13	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-SEP-13	Findings:	5.8 UG/L
Chemical:	PERCHLORATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	19-SEP-13	Findings:	2.6e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	19-SEP-13	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-SEP-13	Findings:	5.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	11-OCT-13	Findings:	6.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11-OCT-13	Findings:	3.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11-OCT-13	Findings:	6.3 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	11-OCT-13	Findings:	1.7e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	11-OCT-13	Findings:	0.71 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-OCT-13	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-OCT-13	Findings:	5.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	11-OCT-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-NOV-13	Findings:	2.1e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	21-NOV-13	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-NOV-13	Findings:	5.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	12-DEC-13	Findings:	2.1e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	12-DEC-13	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-DEC-13	Findings:	6.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-JAN-14	Findings:	6.9 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-JAN-14	Findings:	3.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-JAN-14	Findings:	5. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-JAN-14	Findings:	1.8e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	09-JAN-14	Findings:	0.75 UG/L
Chemical:	TRICHLOROETHYLENE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09-JAN-14	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-JAN-14	Findings:	5.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-JAN-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-FEB-14	Findings:	1.9e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	13-FEB-14	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-FEB-14	Findings:	5.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-MAR-14	Findings:	2.e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	06-MAR-14	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-MAR-14	Findings:	5.3 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	03-APR-14	Findings:	4. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03-APR-14	Findings:	3.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03-APR-14	Findings:	5.9 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	03-APR-14	Findings:	2.3e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	03-APR-14	Findings:	0.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-APR-14	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-14	Findings:	5.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	03-APR-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	16-MAY-14	Findings:	1.9e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	16-MAY-14	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-MAY-14	Findings:	4.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	10-JUL-14	Findings:	4.9 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10-JUL-14	Findings:	3.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-JUL-14	Findings:	5. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-JUL-14	Findings:	1.6e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	10-JUL-14	Findings:	0.67 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-JUL-14	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-14	Findings:	4.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	10-JUL-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	07-AUG-14	Findings:	1.8e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	07-AUG-14	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-AUG-14	Findings:	4.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	18-SEP-14	Findings:	1.8e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	18-SEP-14	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-SEP-14	Findings:	4.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-OCT-14	Findings:	2.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-OCT-14	Findings:	5.2 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-OCT-14	Findings:	1.4e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	09-OCT-14	Findings:	0.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-OCT-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-OCT-14	Findings:	4.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-OCT-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	07-NOV-14	Findings:	1.4e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	07-NOV-14	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-NOV-14	Findings:	4.1 UG/L
Chemical:	PERCHLORATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	30-DEC-14	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-JAN-15	Findings:	3.4 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	22-JAN-15	Findings:	3.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	22-JAN-15	Findings:	5.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	22-JAN-15	Findings:	0.53 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-JAN-15	Findings:	1.5e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	22-JAN-15	Findings:	0.92 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-JAN-15	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-JAN-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		

**76
NE
1/4 - 1/2 Mile
Higher**

CA WELLS 908

Water System Information:

Prime Station Code:	01S/04W-14N01 S	User ID:	WAT
FRDS Number:	3310031077	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340442.8 1171635.2	Precision:	10 Feet (1/10 Second)
Source Name:	RAUB WELL 06		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		
Sample Collected:	12-JUN-15	Findings:	37. MG/L
Chemical:	CALCIUM		
Sample Collected:	12-JUN-15	Findings:	3.8 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12-JUN-15	Findings:	44. MG/L
Chemical:	SODIUM		
Sample Collected:	12-JUN-15	Findings:	2.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12-JUN-15	Findings:	15. MG/L
Chemical:	CHLORIDE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12-JUN-15	Findings:	50. MG/L
Chemical:	SULFATE		
Sample Collected:	12-JUN-15	Findings:	0.81 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	12-JUN-15	Findings:	6.6 UG/L
Chemical:	ARSENIC		
Sample Collected:	12-JUN-15	Findings:	140. UG/L
Chemical:	BORON		
Sample Collected:	12-JUN-15	Findings:	8.7 UG/L
Chemical:	VANADIUM		
Sample Collected:	12-JUN-15	Findings:	5.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12-JUN-15	Findings:	3.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-JUN-15	Findings:	3.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-JUN-15	Findings:	0.58 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-JUN-15	Findings:	270. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12-JUN-15	Findings:	0.82
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	12-JUN-15	Findings:	9. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-JUN-15	Findings:	2100. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	12-JUN-15	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	12-JUN-15	Findings:	2000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	12-JUN-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	24-SEP-15	Findings:	4.9 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	24-SEP-15	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-SEP-15	Findings:	3.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	24-SEP-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	04-DEC-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04-DEC-15	Findings:	3.1 PCI/L
Chemical:	URANIUM (PCI/L)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04-DEC-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	17-MAR-16	Findings:	2.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	17-MAR-16	Findings:	3.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-MAR-16	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	14-APR-16	Findings:	2.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	06-JAN-11	Findings:	1.6e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	04-FEB-11	Findings:	2.e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	04-FEB-11	Findings:	5.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	03-MAR-11	Findings:	5.5 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03-MAR-11	Findings:	2.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	08-APR-11	Findings:	1.5e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	08-APR-11	Findings:	4.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	15-APR-11	Findings:	0.94 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	26-MAY-11	Findings:	1.1e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	24-JUN-11	Findings:	460. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	24-JUN-11	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	24-JUN-11	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	24-JUN-11	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	24-JUN-11	Findings:	130. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	24-JUN-11	Findings:	45. MG/L
Chemical:	CALCIUM		
Sample Collected:	24-JUN-11	Findings:	4.8 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	24-JUN-11	Findings:	47. MG/L
Chemical:	SODIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	24-JUN-11	Findings:	2.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	24-JUN-11	Findings:	2.6 MG/L
Chemical:	CHLORIDE		
Sample Collected:	24-JUN-11	Findings:	2.2 MG/L
Chemical:	SULFATE		
Sample Collected:	24-JUN-11	Findings:	0.77 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	24-JUN-11	Findings:	4.5 UG/L
Chemical:	ARSENIC		
Sample Collected:	24-JUN-11	Findings:	150. UG/L
Chemical:	BORON		
Sample Collected:	24-JUN-11	Findings:	7.5 UG/L
Chemical:	VANADIUM		
Sample Collected:	24-JUN-11	Findings:	8.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	24-JUN-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-JUN-11	Findings:	3.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	24-JUN-11	Findings:	280. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	24-JUN-11	Findings:	- 0.15
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	24-JUN-11	Findings:	2000. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	24-JUN-11	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	24-JUN-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	02-DEC-11	Findings:	420. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	02-DEC-11	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	02-DEC-11	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	02-DEC-11	Findings:	150. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	02-DEC-11	Findings:	110. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	02-DEC-11	Findings:	38. MG/L
Chemical:	CALCIUM		
Sample Collected:	02-DEC-11	Findings:	3.9 MG/L
Chemical:	MAGNESIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02-DEC-11	Findings:	46. MG/L
Chemical:	SODIUM		
Sample Collected:	02-DEC-11	Findings:	2. MG/L
Chemical:	POTASSIUM		
Sample Collected:	02-DEC-11	Findings:	18. MG/L
Chemical:	CHLORIDE		
Sample Collected:	02-DEC-11	Findings:	45. MG/L
Chemical:	SULFATE		
Sample Collected:	02-DEC-11	Findings:	0.83 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	02-DEC-11	Findings:	5. UG/L
Chemical:	ARSENIC		
Sample Collected:	02-DEC-11	Findings:	140. UG/L
Chemical:	BORON		
Sample Collected:	02-DEC-11	Findings:	8.2 UG/L
Chemical:	VANADIUM		
Sample Collected:	02-DEC-11	Findings:	3.4 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	02-DEC-11	Findings:	2.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02-DEC-11	Findings:	3.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	02-DEC-11	Findings:	270. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02-DEC-11	Findings:	0.72
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	02-DEC-11	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-DEC-11	Findings:	2800. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	02-DEC-11	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	02-DEC-11	Findings:	2900. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	02-DEC-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	03-FEB-12	Findings:	420. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03-FEB-12	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	03-FEB-12	Findings:	120. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	03-FEB-12	Findings:	150. MG/L
Chemical:	BICARBONATE ALKALINITY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-FEB-12	Findings:	110. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	03-FEB-12	Findings:	39. MG/L
Chemical:	CALCIUM		
Sample Collected:	03-FEB-12	Findings:	4. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03-FEB-12	Findings:	48. MG/L
Chemical:	SODIUM		
Sample Collected:	03-FEB-12	Findings:	2.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03-FEB-12	Findings:	16. MG/L
Chemical:	CHLORIDE		
Sample Collected:	03-FEB-12	Findings:	49. MG/L
Chemical:	SULFATE		
Sample Collected:	03-FEB-12	Findings:	0.83 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	03-FEB-12	Findings:	5. UG/L
Chemical:	ARSENIC		
Sample Collected:	03-FEB-12	Findings:	160. UG/L
Chemical:	BORON		
Sample Collected:	03-FEB-12	Findings:	7.4 UG/L
Chemical:	VANADIUM		
Sample Collected:	03-FEB-12	Findings:	3.7 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03-FEB-12	Findings:	2.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03-FEB-12	Findings:	3.1 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	03-FEB-12	Findings:	290. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-FEB-12	Findings:	0.61
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	03-FEB-12	Findings:	10. MG/L
Chemical:	NITRATE (AS NO ₃)		
Sample Collected:	03-FEB-12	Findings:	0.13 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	03-FEB-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	03-FEB-12	Findings:	2400. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03-FEB-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	08-MAR-12	Findings:	2.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08-MAR-12	Findings:	2.9 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	08-MAR-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	22-JUN-12	Findings:	3.4 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	22-JUN-12	Findings:	2.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	22-JUN-12	Findings:	2.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	22-JUN-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-SEP-12	Findings:	2.6 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	13-SEP-12	Findings:	2.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	13-SEP-12	Findings:	3. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	13-SEP-12	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-SEP-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-JUN-13	Findings:	410. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	06-JUN-13	Findings:	8.4
Chemical:	PH, LABORATORY		
Sample Collected:	06-JUN-13	Findings:	120. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	06-JUN-13	Findings:	140. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	06-JUN-13	Findings:	2.2 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	06-JUN-13	Findings:	100. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	06-JUN-13	Findings:	36. MG/L
Chemical:	CALCIUM		
Sample Collected:	06-JUN-13	Findings:	3.7 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	06-JUN-13	Findings:	48. MG/L
Chemical:	SODIUM		
Sample Collected:	06-JUN-13	Findings:	2.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	06-JUN-13	Findings:	16. MG/L
Chemical:	CHLORIDE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06-JUN-13	Findings:	42. MG/L
Chemical:	SULFATE		
Sample Collected:	06-JUN-13	Findings:	0.86 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	06-JUN-13	Findings:	5.2 UG/L
Chemical:	ARSENIC		
Sample Collected:	06-JUN-13	Findings:	140. UG/L
Chemical:	BORON		
Sample Collected:	06-JUN-13	Findings:	8.5 UG/L
Chemical:	VANADIUM		
Sample Collected:	06-JUN-13	Findings:	2.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-JUN-13	Findings:	2.8 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	06-JUN-13	Findings:	270. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	06-JUN-13	Findings:	1.1
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	06-JUN-13	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-JUN-13	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	06-JUN-13	Findings:	2300. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	06-JUN-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	05-SEP-13	Findings:	5.2 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	05-SEP-13	Findings:	3.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05-SEP-13	Findings:	3.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05-SEP-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	17-OCT-13	Findings:	9.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-DEC-13	Findings:	2.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-DEC-13	Findings:	2.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-DEC-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	14-MAR-14	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	14-MAR-14	Findings:	2.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	14-MAR-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-JUN-14	Findings:	420. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	06-JUN-14	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	06-JUN-14	Findings:	110. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	06-JUN-14	Findings:	140. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	06-JUN-14	Findings:	110. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	06-JUN-14	Findings:	37. MG/L
Chemical:	CALCIUM		
Sample Collected:	06-JUN-14	Findings:	3.7 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	06-JUN-14	Findings:	47. MG/L
Chemical:	SODIUM		
Sample Collected:	06-JUN-14	Findings:	1.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	06-JUN-14	Findings:	16. MG/L
Chemical:	CHLORIDE		
Sample Collected:	06-JUN-14	Findings:	44. MG/L
Chemical:	SULFATE		
Sample Collected:	06-JUN-14	Findings:	0.88 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	06-JUN-14	Findings:	5.8 UG/L
Chemical:	ARSENIC		
Sample Collected:	06-JUN-14	Findings:	170. UG/L
Chemical:	BORON		
Sample Collected:	06-JUN-14	Findings:	8.6 UG/L
Chemical:	VANADIUM		
Sample Collected:	06-JUN-14	Findings:	3.2 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06-JUN-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-JUN-14	Findings:	2.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	06-JUN-14	Findings:	0.64 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-JUN-14	Findings:	230. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06-JUN-14	Findings:	0.72
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	06-JUN-14	Findings:	9.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-JUN-14	Findings:	2300. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	06-JUN-14	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	06-JUN-14	Findings:	2000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	06-JUN-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	18-SEP-14	Findings:	3.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	18-SEP-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	18-SEP-14	Findings:	3.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	18-SEP-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	31-DEC-14	Findings:	4.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	31-DEC-14	Findings:	3.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	31-DEC-14	Findings:	3.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	31-DEC-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-MAR-15	Findings:	2.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-MAR-15	Findings:	4.1 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-MAR-15	Findings:	0.59 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-MAR-15	Findings:	8.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-MAR-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	12-JUN-15	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	12-JUN-15	Findings:	420. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12-JUN-15	Findings:	8.1
Chemical:	PH, LABORATORY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12-JUN-15	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	12-JUN-15	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12-JUN-15	Findings:	110. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		

77
ESE
1/4 - 1/2 Mile
Higher

CA WELLS 929

Water System Information:

Prime Station Code:	01S/04W-22H04 S	User ID:	WAT
FRDS Number:	3310031100	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340417.8 1171628.4	Precision:	10 Feet (1/10 Second)
Source Name:	WARREN WELL 01		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		
Sample Collected:	13-APR-11	Findings:	580. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	13-APR-11	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	13-APR-11	Findings:	140. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	13-APR-11	Findings:	170. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	13-APR-11	Findings:	150. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	13-APR-11	Findings:	53. MG/L
Chemical:	CALCIUM		
Sample Collected:	13-APR-11	Findings:	3.3 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	13-APR-11	Findings:	63. MG/L
Chemical:	SODIUM		
Sample Collected:	13-APR-11	Findings:	1.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	13-APR-11	Findings:	36. MG/L
Chemical:	CHLORIDE		
Sample Collected:	13-APR-11	Findings:	66. MG/L
Chemical:	SULFATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	13-APR-11	Findings:	0.49 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	13-APR-11	Findings:	3.4 UG/L
Chemical:	ARSENIC		
Sample Collected:	13-APR-11	Findings:	3.9 UG/L
Chemical:	VANADIUM		
Sample Collected:	13-APR-11	Findings:	370. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	13-APR-11	Findings:	0.87
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	13-APR-11	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-APR-11	Findings:	3500. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	13-APR-11	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	13-APR-11	Findings:	6900. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	13-APR-11	Findings:	5. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-APR-11	Findings:	6.1 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	14-APR-11	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-APR-11	Findings:	3.8 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	14-APR-11	Findings:	32. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-APR-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	28-JUN-11	Findings:	2.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	28-JUN-11	Findings:	3.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	28-JUN-11	Findings:	4.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	28-JUN-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	28-JUL-11	Findings:	8.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	28-JUL-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	28-JUL-11	Findings:	3.6 PCI/L
Chemical:	URANIUM (PCI/L)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	28-JUL-11	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-JUL-11	Findings:	4.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	28-JUL-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	01-DEC-11	Findings:	2.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01-DEC-11	Findings:	4.2 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	01-DEC-11	Findings:	32. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-DEC-11	Findings:	4.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	01-DEC-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-APR-12	Findings:	0.54 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	19-APR-12	Findings:	4.3 UG/L
Chemical:	ARSENIC		
Sample Collected:	19-APR-12	Findings:	130. UG/L
Chemical:	BORON		
Sample Collected:	19-APR-12	Findings:	2.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-APR-12	Findings:	3.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-APR-12	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-APR-12	Findings:	5.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	19-APR-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	16-MAY-12	Findings:	5.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	20-JUN-12	Findings:	1.2e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	20-JUN-12	Findings:	5.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	21-JUN-12	Findings:	2.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	21-JUN-12	Findings:	4. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	21-JUN-12	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	21-JUN-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	03-AUG-12	Findings:	5.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-OCT-12	Findings:	3.5 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	04-OCT-12	Findings:	4.2 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	04-OCT-12	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04-OCT-12	Findings:	4.9 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	04-OCT-12	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-OCT-12	Findings:	4.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-OCT-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	05-MAR-13	Findings:	2.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05-MAR-13	Findings:	3.8 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05-MAR-13	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-MAR-13	Findings:	5.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	05-MAR-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	11-APR-13	Findings:	630. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11-APR-13	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	11-APR-13	Findings:	140. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	11-APR-13	Findings:	170. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11-APR-13	Findings:	160. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	11-APR-13	Findings:	61. MG/L
Chemical:	CALCIUM		
Sample Collected:	11-APR-13	Findings:	2.4 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11-APR-13	Findings:	91. MG/L
Chemical:	SODIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11-APR-13	Findings:	2.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	11-APR-13	Findings:	43. MG/L
Chemical:	CHLORIDE		
Sample Collected:	11-APR-13	Findings:	68. MG/L
Chemical:	SULFATE		
Sample Collected:	11-APR-13	Findings:	0.5 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	11-APR-13	Findings:	6. UG/L
Chemical:	ARSENIC		
Sample Collected:	11-APR-13	Findings:	180. UG/L
Chemical:	BORON		
Sample Collected:	11-APR-13	Findings:	5.8 UG/L
Chemical:	VANADIUM		
Sample Collected:	11-APR-13	Findings:	410. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11-APR-13	Findings:	1.1
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	11-APR-13	Findings:	33. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-APR-13	Findings:	0.26 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	11-APR-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	11-APR-13	Findings:	7600. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	11-APR-13	Findings:	5.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	05-JUN-13	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05-JUN-13	Findings:	4.1 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05-JUN-13	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JUN-13	Findings:	5.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	05-JUN-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	05-JUL-13	Findings:	5.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	13-AUG-13	Findings:	5.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	13-AUG-13	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	13-AUG-13	Findings:	3.8 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	13-AUG-13	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-AUG-13	Findings:	5.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	13-AUG-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	12-SEP-13	Findings:	5.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	19-SEP-13	Findings:	5. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	05-JUN-14	Findings:	620. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	05-JUN-14	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	05-JUN-14	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	05-JUN-14	Findings:	150. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05-JUN-14	Findings:	140. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	05-JUN-14	Findings:	50. MG/L
Chemical:	CALCIUM		
Sample Collected:	05-JUN-14	Findings:	2.6 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05-JUN-14	Findings:	76. MG/L
Chemical:	SODIUM		
Sample Collected:	05-JUN-14	Findings:	2.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	05-JUN-14	Findings:	40. MG/L
Chemical:	CHLORIDE		
Sample Collected:	05-JUN-14	Findings:	72. MG/L
Chemical:	SULFATE		
Sample Collected:	05-JUN-14	Findings:	0.56 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	05-JUN-14	Findings:	5.6 UG/L
Chemical:	ARSENIC		
Sample Collected:	05-JUN-14	Findings:	160. UG/L
Chemical:	BORON		
Sample Collected:	05-JUN-14	Findings:	5.4 UG/L
Chemical:	VANADIUM		
Sample Collected:	05-JUN-14	Findings:	5.9 PCI/L
Chemical:	GROSS ALPHA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05-JUN-14	Findings:	3.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05-JUN-14	Findings:	4.2 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05-JUN-14	Findings:	380. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05-JUN-14	Findings:	0.87
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	05-JUN-14	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JUN-14	Findings:	2500. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	05-JUN-14	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	05-JUN-14	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	05-JUN-14	Findings:	7100. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	05-JUN-14	Findings:	5.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	05-JUN-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	09-JUL-14	Findings:	5.4 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-JUL-14	Findings:	3.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-JUL-14	Findings:	3.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-JUL-14	Findings:	33. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-JUL-14	Findings:	5.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-JUL-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-AUG-14	Findings:	5.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	17-SEP-14	Findings:	5.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-OCT-14	Findings:	8.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-OCT-14	Findings:	3.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-OCT-14	Findings:	3.8 PCI/L
Chemical:	URANIUM (PCI/L)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09-OCT-14	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-OCT-14	Findings:	5.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-OCT-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-MAR-15	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	13-MAR-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	13-MAR-15	Findings:	3.2 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	13-MAR-15	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-MAR-15	Findings:	5.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	13-MAR-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	09-APR-15	Findings:	630. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09-APR-15	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	09-APR-15	Findings:	140. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	09-APR-15	Findings:	180. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09-APR-15	Findings:	130. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	09-APR-15	Findings:	50. MG/L
Chemical:	CALCIUM		
Sample Collected:	09-APR-15	Findings:	2.2 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09-APR-15	Findings:	74. MG/L
Chemical:	SODIUM		
Sample Collected:	09-APR-15	Findings:	1.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09-APR-15	Findings:	42. MG/L
Chemical:	CHLORIDE		
Sample Collected:	09-APR-15	Findings:	73. MG/L
Chemical:	SULFATE		
Sample Collected:	09-APR-15	Findings:	0.57 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	09-APR-15	Findings:	9.3 UG/L
Chemical:	ARSENIC		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09-APR-15	Findings:	180. UG/L
Chemical:	BORON		
Sample Collected:	09-APR-15	Findings:	8. UG/L
Chemical:	VANADIUM		
Sample Collected:	09-APR-15	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-APR-15	Findings:	4.2 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-APR-15	Findings:	0.2 MG/L
Chemical:	FOAMING AGENTS (MBAS)		
Sample Collected:	09-APR-15	Findings:	380. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09-APR-15	Findings:	1.
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	09-APR-15	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-15	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	09-APR-15	Findings:	7000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	09-APR-15	Findings:	5.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-APR-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-MAY-15	Findings:	5.3 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	19-JUN-15	Findings:	4.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	16-JUL-15	Findings:	5.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	16-JUL-15	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	16-JUL-15	Findings:	4.8 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	16-JUL-15	Findings:	32. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-JUL-15	Findings:	5.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	16-JUL-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	27-AUG-15	Findings:	5.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	24-SEP-15	Findings:	5.4 UG/L
Chemical:	PERCHLORATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	29-OCT-15	Findings:	6.7 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	29-OCT-15	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	29-OCT-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	29-OCT-15	Findings:	4.3 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	29-OCT-15	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	29-OCT-15	Findings:	5.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	29-OCT-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	18-DEC-15	Findings:	5. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-MAR-16	Findings:	6.8 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	04-MAR-16	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04-MAR-16	Findings:	4. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	04-MAR-16	Findings:	5. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-MAR-16	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-APR-16	Findings:	7.2 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	21-APR-16	Findings:	3.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	21-APR-16	Findings:	3.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	21-APR-16	Findings:	4.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	21-APR-16	Findings:	5.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	21-APR-16	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-MAY-16	Findings:	4.7 UG/L
Chemical:	PERCHLORATE		

R78
ENE
1/4 - 1/2 Mile
Higher

FED USGS USGS40000140650

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340434117162801		
Monloc name:	001S004W23D002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.076124
Longitude:	-117.27532	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1020.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19500101	Welldepth:	714
Welldepth units:	ft	Wellholedepth:	744
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

P79
WNW
1/4 - 1/2 Mile
Lower

CA WELLS CADW60000017126

Objectid:	17126
Latitude:	34.0761
Longitude:	-117.2896
Site code:	340761N1172896W001
State well numbe:	01S04W22C002S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino
Basin code:	'8-2.06'
Basin desc:	Bunker Hill
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000017126

R80
ENE
1/4 - 1/2 Mile
Higher

FED USGS USGS40000140639

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340433117162501		
Monloc name:	001S004W23D00AS		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0758462
Longitude:	-117.2744867	Sourcemap scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1020.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19500101	Welldepth:	345
Welldepth units:	ft	Wellholedepth:	654
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

81
SSW
1/4 - 1/2 Mile
Lower

CA WELLS 909

Water System Information:

Prime Station Code:	01S/04W-14N02 S	User ID:	WAT
FRDS Number:	3310031115	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340400.0 1171700.0	Precision:	0.5 Mile (30 Seconds)
Source Name:	RAUB WELL 08		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		
Sample Collected:	14-OCT-11	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-OCT-11	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-OCT-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	09-MAR-12	Findings:	410. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09-MAR-12	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	09-MAR-12	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	09-MAR-12	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09-MAR-12	Findings:	120. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09-MAR-12	Findings:	42. MG/L
Chemical:	CALCIUM		
Sample Collected:	09-MAR-12	Findings:	4.5 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09-MAR-12	Findings:	40. MG/L
Chemical:	SODIUM		
Sample Collected:	09-MAR-12	Findings:	1.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09-MAR-12	Findings:	14. MG/L
Chemical:	CHLORIDE		
Sample Collected:	09-MAR-12	Findings:	51. MG/L
Chemical:	SULFATE		
Sample Collected:	09-MAR-12	Findings:	0.78 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	09-MAR-12	Findings:	2.5 UG/L
Chemical:	ARSENIC		
Sample Collected:	09-MAR-12	Findings:	7.1 UG/L
Chemical:	VANADIUM		
Sample Collected:	09-MAR-12	Findings:	3.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-MAR-12	Findings:	2.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-MAR-12	Findings:	2.9 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	14-APR-16	Findings:	280. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-APR-16	Findings:	0.97
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	14-APR-16	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	14-APR-16	Findings:	2.1 MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	14-APR-16	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	09-MAR-12	Findings:	0.99 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-MAR-12	Findings:	260. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09-MAR-12	Findings:	0.93
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	09-MAR-12	Findings:	6. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-MAR-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09-MAR-12	Findings:	1400. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	09-MAR-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	07-JUN-12	Findings:	3.7 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07-JUN-12	Findings:	2.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07-JUN-12	Findings:	3.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	07-JUN-12	Findings:	0.94 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JUN-12	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUN-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	02-AUG-12	Findings:	3.4 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	02-AUG-12	Findings:	2.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02-AUG-12	Findings:	3.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	02-AUG-12	Findings:	0.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-AUG-12	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-AUG-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	12-OCT-12	Findings:	2.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-OCT-12	Findings:	3.2 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-OCT-12	Findings:	0.77 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-OCT-12	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-OCT-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	17-APR-13	Findings:	430. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	17-APR-13	Findings:	8.2
Chemical:	PH, LABORATORY		
Sample Collected:	17-APR-13	Findings:	120. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	17-APR-13	Findings:	150. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	17-APR-13	Findings:	120. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	17-APR-13	Findings:	41. MG/L
Chemical:	CALCIUM		
Sample Collected:	17-APR-13	Findings:	4.3 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	17-APR-13	Findings:	43. MG/L
Chemical:	SODIUM		
Sample Collected:	17-APR-13	Findings:	2.4 MG/L
Chemical:	POTASSIUM		
Sample Collected:	17-APR-13	Findings:	16. MG/L
Chemical:	CHLORIDE		
Sample Collected:	17-APR-13	Findings:	48. MG/L
Chemical:	SULFATE		
Sample Collected:	17-APR-13	Findings:	0.73 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	17-APR-13	Findings:	2.7 UG/L
Chemical:	ARSENIC		
Sample Collected:	17-APR-13	Findings:	7.1 UG/L
Chemical:	VANADIUM		
Sample Collected:	17-APR-13	Findings:	2.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	17-APR-13	Findings:	2.9 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-APR-13	Findings:	0.69 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-APR-13	Findings:	270. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	17-APR-13	Findings:	0.94
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	17-APR-13	Findings:	9.4 MG/L
Chemical:	NITRATE (AS NO ₃)		
Sample Collected:	17-APR-13	Findings:	0.37 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	17-APR-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	17-APR-13	Findings:	2100. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	17-APR-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	18-JUL-13	Findings:	440. US
Chemical:	SPECIFIC CONDUCTANCE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	18-JUL-13	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	18-JUL-13	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	18-JUL-13	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	18-JUL-13	Findings:	150. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	18-JUL-13	Findings:	51. MG/L
Chemical:	CALCIUM		
Sample Collected:	18-JUL-13	Findings:	5.4 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	18-JUL-13	Findings:	42. MG/L
Chemical:	SODIUM		
Sample Collected:	18-JUL-13	Findings:	2.4 MG/L
Chemical:	POTASSIUM		
Sample Collected:	18-JUL-13	Findings:	15. MG/L
Chemical:	CHLORIDE		
Sample Collected:	18-JUL-13	Findings:	54. MG/L
Chemical:	SULFATE		
Sample Collected:	18-JUL-13	Findings:	0.67 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	18-JUL-13	Findings:	2.7 UG/L
Chemical:	ARSENIC		
Sample Collected:	18-JUL-13	Findings:	6.5 UG/L
Chemical:	VANADIUM		
Sample Collected:	18-JUL-13	Findings:	2.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	18-JUL-13	Findings:	3.3 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	18-JUL-13	Findings:	0.82 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-JUL-13	Findings:	280. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	18-JUL-13	Findings:	0.8
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	18-JUL-13	Findings:	10. MG/L
Chemical:	NITRATE (AS NO ₃)		
Sample Collected:	18-JUL-13	Findings:	0.32 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	18-JUL-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	18-JUL-13	Findings:	2300. MG/L
Chemical:	NITRATE + NITRITE (AS N)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	18-JUL-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	17-OCT-13	Findings:	5. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	17-OCT-13	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	17-OCT-13	Findings:	3. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-OCT-13	Findings:	0.62 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-OCT-13	Findings:	8.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-OCT-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	16-JAN-14	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	16-JAN-14	Findings:	3. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	16-JAN-14	Findings:	0.51 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-JAN-14	Findings:	8.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-JAN-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	09-APR-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-APR-14	Findings:	3. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-APR-14	Findings:	0.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-APR-14	Findings:	9. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	10-JUL-14	Findings:	460. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10-JUL-14	Findings:	8.2
Chemical:	PH, LABORATORY		
Sample Collected:	10-JUL-14	Findings:	120. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	10-JUL-14	Findings:	150. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10-JUL-14	Findings:	140. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-JUL-14	Findings:	49. MG/L
Chemical:	CALCIUM		
Sample Collected:	10-JUL-14	Findings:	5.2 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10-JUL-14	Findings:	39. MG/L
Chemical:	SODIUM		
Sample Collected:	10-JUL-14	Findings:	2.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10-JUL-14	Findings:	14. MG/L
Chemical:	CHLORIDE		
Sample Collected:	10-JUL-14	Findings:	58. MG/L
Chemical:	SULFATE		
Sample Collected:	10-JUL-14	Findings:	0.71 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	10-JUL-14	Findings:	3.3 UG/L
Chemical:	ARSENIC		
Sample Collected:	10-JUL-14	Findings:	6.5 UG/L
Chemical:	VANADIUM		
Sample Collected:	10-JUL-14	Findings:	4.2 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10-JUL-14	Findings:	3.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-JUL-14	Findings:	3.1 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-JUL-14	Findings:	0.65 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-JUL-14	Findings:	310. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-JUL-14	Findings:	1.
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10-JUL-14	Findings:	9.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-14	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10-JUL-14	Findings:	2200. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	10-JUL-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	31-JUL-14	Findings:	2.3 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	09-OCT-14	Findings:	6. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-OCT-14	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09-OCT-14	Findings:	3.8 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-OCT-14	Findings:	0.69 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-OCT-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	08-JAN-15	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	08-JAN-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08-JAN-15	Findings:	3.2 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	08-JAN-15	Findings:	0.67 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-JAN-15	Findings:	9.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-JAN-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	10-APR-15	Findings:	2.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-APR-15	Findings:	3.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-APR-15	Findings:	0.62 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-APR-15	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-APR-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	24-JUL-15	Findings:	440. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	24-JUL-15	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	24-JUL-15	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	24-JUL-15	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	24-JUL-15	Findings:	140. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	24-JUL-15	Findings:	47. MG/L
Chemical:	CALCIUM		
Sample Collected:	24-JUL-15	Findings:	5.2 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	24-JUL-15	Findings:	43. MG/L
Chemical:	SODIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	24-JUL-15	Findings:	2.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	24-JUL-15	Findings:	15. MG/L
Chemical:	CHLORIDE		
Sample Collected:	24-JUL-15	Findings:	56. MG/L
Chemical:	SULFATE		
Sample Collected:	24-JUL-15	Findings:	0.73 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	24-JUL-15	Findings:	3.2 UG/L
Chemical:	ARSENIC		
Sample Collected:	24-JUL-15	Findings:	7.4 UG/L
Chemical:	VANADIUM		
Sample Collected:	24-JUL-15	Findings:	3.5 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	24-JUL-15	Findings:	3.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-JUL-15	Findings:	3.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	24-JUL-15	Findings:	0.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	24-JUL-15	Findings:	280. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	24-JUL-15	Findings:	0.85
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	24-JUL-15	Findings:	8.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-JUL-15	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	24-JUL-15	Findings:	2000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	24-JUL-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	22-OCT-15	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	22-OCT-15	Findings:	440. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	22-OCT-15	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	22-OCT-15	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	22-OCT-15	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	06-JAN-11	Findings:	430. US
Chemical:	SPECIFIC CONDUCTANCE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06-JAN-11	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	06-JAN-11	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	06-JAN-11	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	06-JAN-11	Findings:	120. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	06-JAN-11	Findings:	40. MG/L
Chemical:	CALCIUM		
Sample Collected:	06-JAN-11	Findings:	4.2 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	06-JAN-11	Findings:	44. MG/L
Chemical:	SODIUM		
Sample Collected:	06-JAN-11	Findings:	2.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	06-JAN-11	Findings:	16. MG/L
Chemical:	CHLORIDE		
Sample Collected:	06-JAN-11	Findings:	42. MG/L
Chemical:	SULFATE		
Sample Collected:	06-JAN-11	Findings:	0.84 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	06-JAN-11	Findings:	3.5 UG/L
Chemical:	ARSENIC		
Sample Collected:	22-OCT-15	Findings:	2.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	22-OCT-15	Findings:	140. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	22-OCT-15	Findings:	47. MG/L
Chemical:	CALCIUM		
Sample Collected:	22-OCT-15	Findings:	5. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	22-OCT-15	Findings:	41. MG/L
Chemical:	SODIUM		
Sample Collected:	22-OCT-15	Findings:	2.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	22-OCT-15	Findings:	15. MG/L
Chemical:	CHLORIDE		
Sample Collected:	22-OCT-15	Findings:	60. MG/L
Chemical:	SULFATE		
Sample Collected:	22-OCT-15	Findings:	0.7 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	22-OCT-15	Findings:	3. UG/L
Chemical:	ARSENIC		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	22-OCT-15	Findings:	7.1 UG/L
Chemical:	VANADIUM		
Sample Collected:	22-OCT-15	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	22-OCT-15	Findings:	3.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	22-OCT-15	Findings:	0.54 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-OCT-15	Findings:	270. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	22-OCT-15	Findings:	0.93
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	22-OCT-15	Findings:	9.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-OCT-15	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	06-JAN-11	Findings:	9. UG/L
Chemical:	VANADIUM		
Sample Collected:	06-JAN-11	Findings:	260. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	06-JAN-11	Findings:	0.88
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	06-JAN-11	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-JAN-11	Findings:	2300. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	06-JAN-11	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	06-JAN-11	Findings:	2300. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03-MAR-11	Findings:	3. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	03-MAR-11	Findings:	0.73 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-MAR-11	Findings:	4.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-JUN-11	Findings:	4.5 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	24-JUN-11	Findings:	2.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	22-OCT-15	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	22-OCT-15	Findings:	2100. MG/L
Chemical:	NITRATE + NITRITE (AS N)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	22-OCT-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	08-JAN-16	Findings:	430. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08-JAN-16	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	08-JAN-16	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	08-JAN-16	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08-JAN-16	Findings:	2.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	08-JAN-16	Findings:	120. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	08-JAN-16	Findings:	41. MG/L
Chemical:	CALCIUM		
Sample Collected:	08-JAN-16	Findings:	4.3 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08-JAN-16	Findings:	38. MG/L
Chemical:	SODIUM		
Sample Collected:	08-JAN-16	Findings:	2. MG/L
Chemical:	POTASSIUM		
Sample Collected:	08-JAN-16	Findings:	15. MG/L
Chemical:	CHLORIDE		
Sample Collected:	08-JAN-16	Findings:	53. MG/L
Chemical:	SULFATE		
Sample Collected:	08-JAN-16	Findings:	0.73 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	08-JAN-16	Findings:	2.8 UG/L
Chemical:	ARSENIC		
Sample Collected:	08-JAN-16	Findings:	7.3 UG/L
Chemical:	VANADIUM		
Sample Collected:	08-JAN-16	Findings:	2.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08-JAN-16	Findings:	2.9 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	08-JAN-16	Findings:	260. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08-JAN-16	Findings:	0.91
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	24-JUN-11	Findings:	2.8 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	24-JUN-11	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	24-JUN-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	14-OCT-11	Findings:	2.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-OCT-11	Findings:	3.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	08-JAN-16	Findings:	0.12 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	08-JAN-16	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	08-JAN-16	Findings:	2.1 MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	08-JAN-16	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	14-APR-16	Findings:	430. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	14-APR-16	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	14-APR-16	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	14-APR-16	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	14-APR-16	Findings:	2.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	14-APR-16	Findings:	120. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	14-APR-16	Findings:	43. MG/L
Chemical:	CALCIUM		
Sample Collected:	14-APR-16	Findings:	4.4 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	14-APR-16	Findings:	39. MG/L
Chemical:	SODIUM		
Sample Collected:	14-APR-16	Findings:	2.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	14-APR-16	Findings:	15. MG/L
Chemical:	CHLORIDE		
Sample Collected:	14-APR-16	Findings:	54. MG/L
Chemical:	SULFATE		
Sample Collected:	14-APR-16	Findings:	0.75 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	14-APR-16	Findings:	3.1 UG/L
Chemical:	ARSENIC		
Sample Collected:	14-APR-16	Findings:	7.1 UG/L
Chemical:	VANADIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected: 14-APR-16 Findings: 2.8 PCI/L
 Chemical: GROSS ALPHA COUNTING ERROR

Sample Collected: 14-APR-16 Findings: 3.2 PCI/L
 Chemical: URANIUM (PCI/L)

**S82
 SW
 1/2 - 1 Mile
 Lower**

FED USGS USGS40000140462

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340404117171201
 Monloc name: 001S004W22L005S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: 18070203 Drainagearea value: Not Reported
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported
 Contrib drainagearea units: Not Reported Latitude: 34.0677909
 Longitude: -117.2875426 Sourcemap scale: Not Reported
 Horiz Acc measure: 1 Horiz Acc measure units: seconds
 Horiz Collection method: Interpolated from map
 Horiz coord refsys: NAD83 Vert measure val: 990.00
 Vert measure units: feet Vertacc measure val: 10
 Vert accmeasure units: feet
 Vertcollection method: Interpolated from topographic map
 Vert coord refsys: NGVD29 Countrycode: US
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Not Reported
 Construction date: 19510101 Welldepth: 243
 Welldepth units: ft Wellholedepth: 243
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 91

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-03-31	70.40		1969-11-11	132.80	
1969-01-07	101.70		1968-04-19	90.10	
1967-12-07	99.10		1967-05-08	79.20	
1967-05-01	86.70		1967-01-10	86.70	
1966-12-08	99.60		1966-12-06	92.70	
1966-11-07	96.40				
1966-09-05	123.00				
Note: The site was being pumped.					
1966-08-09	93.80		1966-07-12	92.20	
1966-06-06	121.20				
Note: The site was being pumped.					
1966-05-10	120.50				
Note: The site was being pumped.					
1966-04-12	117.00				
Note: The site was being pumped.					
1966-03-07	72.80		1966-02-07	76.00	
1966-01-11	80.60		1965-12-06	85.80	
1965-11-23	95.50				
1965-11-08	131.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1965-10-11	90.20		1965-09-06	91.70	
1965-08-09	88.40		1965-07-06	86.40	
1965-06-08	131.90				
Note: The site was being pumped.					
1965-05-11	99.50				
Note: The site was being pumped.					
1965-04-06	87.30				
1965-03-09	131.00				
Note: The site was being pumped.					
1965-02-10	126.90				
Note: The site was being pumped.					
1965-01-08	87.70		1964-12-05	89.90	
1964-11-10	114.80				
Note: The site was being pumped.					
1964-10-06	129.00				
Note: The site was being pumped.					
1964-09-08	122.00				
Note: The site was being pumped.					
1964-08-11	130.80				
Note: The site was being pumped.					
1964-07-07	120.70				
Note: The site was being pumped.					
1964-06-09	122.70				
Note: The site was being pumped.					
1964-05-10	122.30				
Note: The site was being pumped.					
1964-04-07	73.20				
1964-03-10	121.00				
Note: The site was being pumped.					
1964-02-15	115.80				
Note: The site was being pumped.					
1964-01-18	109.00				
Note: The site was being pumped.					
1963-12-16	74.40				
1963-11-17	98.80				
Note: The site was being pumped.					
1963-10-12	99.50				
Note: The site was being pumped.					
1963-09-15	92.00				
1963-08-17	106.80				
Note: The site was being pumped.					
1963-07-18	109.30				
Note: The site was being pumped.					
1963-06-15	99.90		1963-05-19	99.00	
1963-04-13	95.40				
Note: The site was being pumped.					
1963-03-16	102.80				
Note: The site was being pumped.					
1963-02-18	72.00		1963-01-12	76.20	
1962-12-15	77.40				
1962-11-16	126.80				
Note: The site was being pumped.					
1962-10-01	197.40				
Note: The site was being pumped.					
1962-09-15	195.50				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1962-08-17	123.20				
Note: The site was being pumped.					
1962-07-13	117.40				
Note: The site was being pumped.					
1962-06-16	112.00				
Note: The site was being pumped.					
1962-05-11	110.00				
Note: The site was being pumped.					
1962-04-08	37.60		1962-03-19	34.00	
1962-02-18	42.80				
1962-01-13	94.00				
Note: The site was being pumped.					
1961-12-18	60.40		1961-11-17	100.40	
1961-10-17	104.50				
Note: The site was being pumped.					
1961-09-16	100.40				
Note: The site was being pumped.					
1961-08-13	105.60				
Note: The site was being pumped.					
1961-07-23	104.30				
Note: The site was being pumped.					
1961-06-16	99.50				
Note: The site was being pumped.					
1961-05-13	98.00				
Note: The site was being pumped.					
1961-04-13	59.00				
1961-03-17	96.00				
Note: The site was being pumped.					
1961-02-17	94.00				
Note: The site was being pumped.					
1961-01-13	95.70				
Note: The site was being pumped.					
1960-12-15	96.00				
Note: The site was being pumped.					
1960-10-12	110.00				
Note: The site was being pumped.					
1960-09-15	106.70				
1960-08-12	104.00				
Note: The site was being pumped.					
1960-07-16	101.60				
Note: The site was being pumped.					
1960-07-15	101.50				
Note: The site was being pumped.					
1959-06-11	99.20				
Note: The site was being pumped.					
1959-05-12	95.70				
Note: The site was being pumped.					
1959-04-16	89.50				
Note: The site was being pumped.					
1959-03-16	13.50				

T83
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140520

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340413117172201		
Monloc name:	001S004W22L004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0702908
Longitude:	-117.2903205	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	980.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	93
Welldepth units:	ft	Wellholedepth:	93
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

**84
NE
1/2 - 1 Mile
Higher**

FED USGS USGS40000140704

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340442117162801		
Monloc name:	001S004W14N009S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0783461
Longitude:	-117.27532	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	817
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

85
East
1/2 - 1 Mile
Higher

CA WELLS 932

Water System Information:

Prime Station Code:	01S/04W-23C02 S	User ID:	WAT
FRDS Number:	3310031078	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340429.2 1171621.6	Precision:	10 Feet (1/10 Second)
Source Name:	RAUB WELL 02		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		
Sample Collected:	07-AUG-08	Findings:	7.5 UG/L
Chemical:	VANADIUM		

T86
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140505

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340411117172201		
Monloc name:	001S004W22L003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0697353
Longitude:	-117.2903205	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	977.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	85
Welldepth units:	ft	Wellholedepth:	85
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

87
NNE
1/2 - 1 Mile
Higher

Site ID: 083601117T
Groundwater Flow: WSW
Shallow Water Depth: 25 ft
Deep Water Depth: Not Reported
Average Water Depth: Not Reported
Date: 10/05/1998

AQUIFLOW 50208

S88
SW
1/2 - 1 Mile
Lower

Objectid: 19286
Latitude: 34.0678
Longitude: -117.2884
Site code: 340678N1172884W001
State well numbe: 01S04W22L005S
Local well name: "
Well use id: 6
Well use descrip: Unknown
County id: 36
County name: San Bernardino
Basin code: '8-2.06'
Basin desc: Bunker Hill
Dwr region id: 80238
Dwr region: Southern Region Office
Site id: CADW60000019286

CA WELLS CADW60000019286

U89
SW
1/2 - 1 Mile
Lower

Org. Identifier: USGS-CA
Formal name: USGS California Water Science Center
Monloc Identifier: USGS-340406117171801
Monloc name: 001S004W22L017S
Monloc type: Well
Monloc desc: Not Reported
Huc code: 18070203
Drainagearea Units: Not Reported
Contrib drainagearea units: Not Reported
Longitude: -117.2892093
Horiz Acc measure: 5
Horiz Collection method: Interpolated from map
Horiz coord refsys: NAD83
Vert measure units: feet
Vert accmeasure units: feet
Vertcollection method: Level or other surveying method
Vert coord refsys: NGVD29
Aquifername: California Coastal Basin aquifers
Formation type: Not Reported

Drainagearea value: Not Reported
Contrib drainagearea: Not Reported
Latitude: 34.0683464
Sourcemap scale: 24000
Horiz Acc measure units: seconds
Vert measure val: 977.00
Vertacc measure val: 0.1
Countrycode: US

FED USGS USGS40000140475

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	630
Construction date:	19890119	Wellholedepth:	640
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1989-01-19	11.5	

90
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40000140667

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340438117162301		
Monloc name:	001S004W23C003S		
Monloc type:	Well		
Monloc desc:	NAWQA DATA ENTRY COM + VER 06/21/2000		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0772944
Longitude:	-117.2741	Sourcemap scale:	24000
Horiz Acc measure:	.5	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	1019.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Cenozoic Erathem		
Aquifer type:	Unconfined single aquifer		
Construction date:	19520101	Welldepth:	750
Welldepth units:	ft	Wellholedepth:	750
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
-----			-----		
2004-06-30	137.6		2000-04-05	82	

91
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40000140649

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340434117162101		
Monloc name:	001S004W23C002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.076124
Longitude:	-117.2733755	Sourcemap scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1021.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19310101	Welldepth:	1188
Welldepth units:	ft	Wellholedepth:	1188
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

T92
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140515

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340412117172401		
Monloc name:	001S004W22L002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.070013
Longitude:	-117.290876	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	981.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	87
Welldepth units:	ft	Wellholedepth:	87
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

T93
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140506

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340411117172401		
Monloc name:	001S004W22L001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0697352
Longitude:	-117.290876	Sourcemap scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	980.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	92
Welldepth units:	ft	Wellholedepth:	92
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

U94
SW
1/2 - 1 Mile
Lower

FED USGS USGS40000140467

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340405117171901		
Monloc name:	001S004W22L012S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0680687
Longitude:	-117.2894871	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	987.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	83
Welldepth units:	ft	Wellholedepth:	125
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-03-30	65.40		1969-11-21	72.30	
1968-05-23					

Note: The site was dry (no water level recorded).

1967-11-30

Note: The site was dry (no water level recorded).

U95
SW
1/2 - 1 Mile
Lower

CA WELLS CADW60000019289

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid: 19289
 Latitude: 34.0684
 Longitude: -117.2901
 Site code: 340684N1172901W001
 State well numbe: 01S04W22L017S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000019289

96
North
1/2 - 1 Mile
Higher

FED USGS USGS40000140746

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340455117165701
 Monloc name: 001S004W15K002S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: 18070203 Drainagearea value: Not Reported
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported
 Contrib drainagearea units: Not Reported Latitude: 34.0819571
 Longitude: -117.2833759 Sourcemap scale: Not Reported
 Horiz Acc measure: 1 Horiz Acc measure units: seconds
 Horiz Collection method: Interpolated from map
 Horiz coord refsys: NAD83 Vert measure val: 1002.00
 Vert measure units: feet Vertacc measure val: 10
 Vert accmeasure units: feet
 Vertcollection method: Interpolated from topographic map
 Vert coord refsys: NGVD29 Countrycode: US
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Not Reported
 Construction date: 19370101 Welldepth: 262
 Welldepth units: ft Wellholedepth: 274
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 8

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1940-09-02	9.00		1940-08-15	8.00	
1940-07-02	8.00		1940-05-04	2.00	
1939-09-30	2.00		1939-08-20	6.80	
1939-08-01	5.00		1937-07-16	10.80	

U97
SW
1/2 - 1 Mile
Lower

FED USGS USGS40000140463

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340404117172001		
Monloc name:	001S004W22L008S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0677909
Longitude:	-117.2897649	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	987.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19510101	Welldepth:	285
Welldepth units:	ft	Wellholedepth:	285
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 7

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1969-11-11	107.20		1969-01-07	163.80	
1968-04-19	118.90		1967-12-18	152.70	
1967-05-01	114.20		1966-12-07	152.90	
1965-11-23	149.30				

U98
SW
1/2 - 1 Mile
Lower

CA WELLS CADW60000019288

Objectid:	19288
Latitude:	34.0681
Longitude:	-117.2904
Site code:	340681N1172904W001
State well numbe:	01S04W22L012S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino
Basin code:	'8-2.06'
Basin desc:	Bunker Hill
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000019288

V99
NNW
1/2 - 1 Mile
Lower

CA WELLS 913

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Water System Information:

Prime Station Code:	01S/04W-15L03 S	User ID:	WAT
FRDS Number:	3310031064	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340453.3 1171711.3	Precision:	10 Feet (1/10 Second)
Source Name:	MEEKS & DALEY - 59		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		
Sample Collected:	29-DEC-14	Findings:	450. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	29-DEC-14	Findings:	8.2
Chemical:	PH, LABORATORY		
Sample Collected:	29-DEC-14	Findings:	140. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	29-DEC-14	Findings:	170. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	29-DEC-14	Findings:	120. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	29-DEC-14	Findings:	42. MG/L
Chemical:	CALCIUM		
Sample Collected:	29-DEC-14	Findings:	3.8 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	29-DEC-14	Findings:	57. MG/L
Chemical:	SODIUM		
Sample Collected:	29-DEC-14	Findings:	2. MG/L
Chemical:	POTASSIUM		
Sample Collected:	29-DEC-14	Findings:	15. MG/L
Chemical:	CHLORIDE		
Sample Collected:	29-DEC-14	Findings:	59. MG/L
Chemical:	SULFATE		
Sample Collected:	29-DEC-14	Findings:	0.95 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	29-DEC-14	Findings:	20. UG/L
Chemical:	ARSENIC		
Sample Collected:	29-DEC-14	Findings:	340. UG/L
Chemical:	BORON		
Sample Collected:	29-DEC-14	Findings:	3400. UG/L
Chemical:	IRON		
Sample Collected:	29-DEC-14	Findings:	410. UG/L
Chemical:	MANGANESE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	29-DEC-14	Findings:	23. UG/L
Chemical:	VANADIUM		
Sample Collected:	29-DEC-14	Findings:	6200. UG/L
Chemical:	ALUMINUM		
Sample Collected:	29-DEC-14	Findings:	7.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	29-DEC-14	Findings:	3.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	29-DEC-14	Findings:	0.14 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	29-DEC-14	Findings:	2.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	29-DEC-14	Findings:	280. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	29-DEC-14	Findings:	1.
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	29-DEC-14	Findings:	13. NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	29-DEC-14	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	29-DEC-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	29-DEC-14	Findings:	0.36 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	29-DEC-14	Findings:	0.99 PCI/L
Chemical:	RADIUM 228 MDA95		

**100
SSE
1/2 - 1 Mile
Higher**

FED USGS

USGS40000140430

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340355117164101		
Monloc name:	001S004W22R001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0652911
Longitude:	-117.2789312	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1015.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	604
Construction date:	19120101	Wellholeddepth:	610
Welldepth units:	ft		
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

**W101
ENE
1/2 - 1 Mile
Higher**

CA WELLS CADW60000030853

Objectid:	30853
Latitude:	34.0784
Longitude:	-117.2734
Site code:	340784N1172734W001
State well numbe:	01S04W14P002S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino
Basin code:	'8-2.06'
Basin desc:	Bunker Hill
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000030853

**V102
NNW
1/2 - 1 Mile
Lower**

FED USGS USGS40000140742

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340454117171101		
Monloc name:	001S004W15L003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0816793
Longitude:	-117.2872649	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	995.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19590101	Welldepth:	800
Welldepth units:	ft	Wellholeddepth:	800
Wellholeddepth units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 39

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1969-04-12	56.00		1968-12-28	84.00	
1968-03-30	72.00		1967-12-02	79.00	
1967-05-06	155.50				
Note: The site was being pumped.					
1967-04-08	158.50				
Note: The site was being pumped.					
1967-03-25	176.00				
Note: The site was being pumped.					
1967-02-25	74.50		1967-02-04	60.50	
1967-01-07	66.50		1966-12-17	73.50	
1966-11-05	183.50				
Note: The site was being pumped.					
1966-10-01	179.50				
Note: The site was being pumped.					
1965-06-19	179.50				
Note: The site was being pumped.					
1965-05-01	66.00		1965-04-17	53.50	
1965-04-03	58.50		1965-03-20	59.20	
1965-03-06	68.50		1965-02-20	165.50	
1965-02-06	161.50		1965-01-23	176.50	
1965-01-09	55.50		1964-12-26	64.50	
1964-12-12	67.00		1964-11-28	60.50	
1964-11-14	87.50		1964-10-24	57.50	
1964-10-03	177.50		1964-09-19	166.50	
1964-09-05	164.50		1964-08-15	165.00	
1964-08-01	163.50		1964-07-18	160.50	
1964-07-04	158.30		1964-05-09	61.70	
1964-03-14	57.80		1963-10-25	57.10	
1963-01-18	98.80				
Note: The site was being pumped.					

**103
SW
1/2 - 1 Mile
Lower**

CA WELLS CADW60000019287

Objectid: 19287
 Latitude: 34.0678
 Longitude: -117.2907
 Site code: 340678N1172907W001
 State well numbe: 01S04W22L008S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000019287

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

W104
ENE
1/2 - 1 Mile
Higher

CA WELLS CADW60000018159

Objectid: 18159
 Latitude: 34.0786
 Longitude: -117.2732
 Site code: 340786N1172732W001
 State well numbe: 01S04W14P001S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000018159

W105
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40000140702

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340442117161801
 Monloc name: 001S004W14P002S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: 18070203 Drainagearea value: Not Reported
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported
 Contrib drainagearea units: Not Reported Latitude: 34.0783462
 Longitude: -117.2725422 Sourcemap scale: Not Reported
 Horiz Acc measure: 1 Horiz Acc measure units: seconds
 Horiz Collection method: Interpolated from map
 Horiz coord refs: NAD83 Vert measure val: 1023.00
 Vert measure units: feet Vertacc measure val: 10
 Vert accmeasure units: feet
 Vertcollection method: Interpolated from topographic map
 Vert coord refs: NGVD29 Countrycode: US
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Not Reported
 Construction date: 19120101 Welldepth: 580
 Welldepth units: ft Wellholedepth: 580
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 403

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-03-31	89.40		1969-11-26	104.80	
1969-05-01	100.20		1969-01-03	105.20	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1968-05-03	118.20		1967-11-30	94.20	
1967-09-08	130.20		1967-08-11	133.20	
1967-07-07	127.20		1967-06-02	115.20	
1967-05-05	95.20		1967-04-01	104.20	
1967-03-03	113.20		1967-02-03	87.20	
1967-01-06	89.20		1966-12-02	122.20	
1966-10-28	134.20		1966-10-07	127.20	
1966-09-16	136.20		1966-08-20	136.20	
1966-07-15	134.20		1966-06-17	128.70	
1966-05-20	115.20		1966-04-15	115.20	
1966-03-11	101.20		1966-02-04	84.20	
1966-01-07	86.20		1965-12-10	92.20	
1965-11-12	114.80		1965-10-08	124.60	
1965-09-10	122.20		1965-06-25	119.70	
1965-06-11	121.50		1965-05-21	123.10	
1965-05-07	98.80		1965-04-23	85.10	
1965-04-09	78.80		1965-03-26	86.10	
1965-03-12	96.20		1965-02-20	107.10	
1965-02-12	101.10		1965-01-29	91.80	
1965-01-08	82.10		1964-12-25	98.10	
1964-12-11	104.10		1964-11-27	86.50	
1964-11-12	97.80		1964-10-30	110.20	
1964-10-09	116.50		1964-09-25	118.80	
1964-09-11	124.50		1964-08-28	122.10	
1964-08-14	121.50		1964-07-31	119.80	
1964-07-10	121.20		1964-06-19	110.80	
1964-05-15	100.20		1964-05-01	99.10	
1964-04-10	83.10		1964-03-13	95.10	
1964-02-14	85.10		1964-01-10	96.50	
1963-12-13	79.80		1963-11-29	78.10	
1963-11-15	91.20		1963-11-01	86.80	
1963-10-18	96.50		1963-10-04	89.50	
1963-09-13	108.50		1963-08-30	116.80	
1963-08-16	111.50		1963-08-01	112.20	
1963-07-12	108.10		1963-06-21	101.10	
1963-06-07	92.10		1963-05-24	91.20	
1963-05-10	83.20		1963-04-26	71.80	
1963-03-29	67.10		1963-03-15	71.20	
1963-03-01	73.20		1963-02-08	85.20	
1963-01-26	87.70		1962-12-21	79.20	
1962-12-08	83.20		1962-11-23	82.80	
1962-11-09	101.20		1962-10-26	107.20	
1962-10-12	96.80		1962-09-28	88.50	
1962-09-14	99.80		1962-08-31	100.20	
1962-08-17	97.80		1962-08-03	97.50	
1962-07-20	92.50		1962-06-29	92.20	
1962-06-15	71.20		1962-06-01	71.20	
1962-05-18	66.20		1962-05-04	80.20	
1962-04-13	73.50		1962-03-30	46.20	
1962-03-16	46.00		1962-03-02	52.20	
1962-02-22	49.70		1962-02-02	65.20	
1962-01-05	62.20		1961-12-22	53.20	
1961-12-08	58.70		1961-11-17	79.70	
1961-11-03	78.20		1961-10-13	89.20	
1961-09-29	91.20		1961-09-15	89.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1961-09-01	93.20		1961-08-18	96.00	
1961-08-04	91.20		1961-07-14	91.00	
1961-06-30	87.70		1961-06-16	84.80	
1961-06-02	72.80		1961-05-12	75.20	
1961-05-05	66.80		1961-04-14	71.20	
1961-03-31	55.20		1961-03-16	56.20	
1961-03-03	66.20		1961-02-17	54.20	
1961-02-03	43.20		1961-01-20	66.20	
1961-01-06	63.80		1960-12-23	67.10	
1960-11-25	58.80		1960-11-11	45.20	
1960-10-28	67.20		1960-10-14	54.80	
1960-09-30	66.10		1960-09-14	69.50	
1960-09-02	74.10		1960-08-19	78.20	
1960-08-05	77.20		1960-07-15	75.10	
1960-07-01	73.20		1960-06-24	62.20	
1960-06-10	59.70		1960-05-27	69.70	
1960-05-20	68.20		1960-04-29	47.50	
1960-04-15	58.70		1960-04-01	63.70	
1960-03-18	43.20		1960-03-04	21.20	
1960-02-19	27.50		1960-01-29	30.20	
1960-01-15	28.70		1960-01-03	32.50	
1959-12-18	60.20		1959-12-04	67.50	
1959-11-13	55.00		1959-11-02	61.20	
1959-10-19	73.20		1959-10-02	65.00	
1959-09-25	60.50		1959-09-18	68.20	
1959-09-11	58.20		1959-09-04	62.20	
1959-08-28	62.20		1959-08-21	67.20	
1959-08-14	68.70		1959-08-07	67.70	
1959-07-31	68.20		1959-07-24	66.50	
1959-07-17	66.50		1959-07-10	66.20	
1959-07-03	66.80		1959-06-19	66.10	
1959-06-12	62.20		1959-06-05	58.80	
1959-05-22	54.10		1959-05-15	42.50	
1959-05-08	57.50		1959-05-01	52.20	
1959-04-24	47.20		1959-04-17	44.10	
1959-04-10	37.20		1959-03-27	39.80	
1959-03-13	19.80		1959-02-20	15.20	
1959-02-06	41.50		1959-01-23	29.80	
1959-01-02	41.80		1958-12-19	44.10	
1958-12-05	46.10		1958-11-21	46.10	
1958-11-07	44.50		1958-10-24	35.80	
1958-10-17	56.50		1958-10-10	49.20	
1958-09-26	50.20		1958-09-19	55.80	
1958-09-13	33.50		1958-09-05	51.50	
1958-08-29	49.50		1958-08-22	53.10	
1958-08-16	43.10		1958-08-08	58.20	
1958-08-01	57.10		1958-07-25	56.50	
1958-07-18	55.80		1958-07-11	65.20	
1958-07-04	54.10		1958-06-27	55.70	
1958-06-20	54.50		1958-06-13	52.20	
1958-06-06	46.20		1958-05-30	48.20	
1958-05-23	41.70		1958-05-16	40.70	
1958-05-09	34.70		1958-04-25	25.50	
1958-04-10	2.50		1958-03-29	2.20	
1958-03-14	6.00		1958-02-21	14.70	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-02-07	16.50		1958-01-24	33.50	
1958-01-13	24.50		1957-12-27	23.20	
1957-12-13	28.00		1957-11-29	41.20	
1957-11-15	24.20		1957-11-01	31.20	
1957-10-18	40.20		1957-10-04	61.70	
1957-09-28	64.00		1957-09-20	57.77	
1957-09-13	78.10		1957-09-06	65.70	
1957-08-30	62.70		1957-08-09	66.50	
1957-08-02	66.70		1957-07-26	64.20	
1957-07-19	63.70		1957-07-12	75.30	
1957-07-05	63.00		1957-06-28	64.00	
1957-06-21	59.80		1957-06-12	49.00	
1957-05-25	24.00		1957-05-10	36.00	
1957-04-26	20.00		1957-04-12	32.80	
1957-04-01	39.00		1957-03-15	19.50	
1957-03-01	15.00		1957-02-15	20.50	
1957-02-04	10.00		1957-01-21	14.80	
1957-01-04	34.80		1956-12-14	42.50	
1956-11-30	48.30		1956-11-16	43.80	
1956-11-02	39.00		1956-10-14	45.50	
1956-10-05	47.00		1956-09-21	60.80	
1956-09-07	61.80		1956-08-24	61.50	
1956-08-10	60.30		1956-07-27	47.30	
1956-07-13	66.80		1956-06-15	54.90	
1955-09-29	57.20		1954-06-01	21.50	
1954-05-03	2.80		1954-04-01	4.20	
1954-03-01	0.20		1954-02-01	1.20	
1954-01-04	8.70		1953-12-01	5.70	
1953-11-02	26.50		1953-10-01	31.00	
1953-09-01	37.90		1953-08-03	24.50	
1953-07-01	28.70		1953-06-02	12.60	
1953-05-01	2.90		1953-04-01	0.40	
1953-03-02	14.20		1953-02-02	21.10	
1953-01-05	23.50		1952-12-01	15.40	
1952-10-01	10.20		1952-09-02	13.70	
1952-08-01	22.40				
Note: A nearby site that taps the same aquifer was being pumped.					
1952-07-02	9.70		1952-05-02	21.10	
1948-09-01	0.80				
Note: The site was being pumped.					
1948-08-02	0.80				
Note: The site was being pumped.					
1948-07-01	0.80				
Note: The site was being pumped.					
1948-06-01	0.80				
Note: The site was being pumped.					
1948-05-01	0.70				
Note: The site was being pumped.					
1947-11-01	0.70				
Note: The site was being pumped.					
1947-10-01	0.70				
Note: The site was being pumped.					
1947-09-02	0.70				
Note: The site was being pumped.					
1947-08-01	0.70				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1947-07-01	0.60				
	Note: The site was being pumped.				
1947-06-02	0.60				
	Note: The site was being pumped.				
1947-05-01	0.60				
	Note: The site was being pumped.				
1947-04-01	0.60				
	Note: The site was being pumped.				
1947-03-03	0.60				
	Note: The site was being pumped.				
1947-02-15	0.60				
	Note: The site was being pumped.				
1946-10-01	0.70				
	Note: The site was being pumped.				
1946-09-03	0.70				
	Note: The site was being pumped.				
1946-08-01	0.60				
	Note: The site was being pumped.				
1946-07-01	0.60				
	Note: The site was being pumped.				
1946-06-01	0.60				
	Note: The site was being pumped.				
1946-05-01	0.60				
	Note: The site was being pumped.				
1945-11-01	0.60				
	Note: The site was being pumped.				
1945-10-01	0.60				
	Note: The site was being pumped.				
1945-09-04	0.60				
	Note: The site was being pumped.				
1945-08-01	0.60				
	Note: The site was being pumped.				
1945-07-02	0.60				
	Note: The site was being pumped.				
1945-06-01	0.60				
	Note: The site was being pumped.				
1945-05-01	0.60				
	Note: The site was being pumped.				
1944-11-01	0.50				
	Note: The site was being pumped.				
1944-10-02	0.50				
	Note: The site was being pumped.				
1944-09-01	0.60				
	Note: The site was being pumped.				
1944-08-01	0.60				
	Note: The site was being pumped.				
1944-07-01	0.60				
	Note: The site was being pumped.				
1944-06-01	0.50				
	Note: The site was being pumped.				
1944-05-17	0.50				
	Note: The site was being pumped.				
1944-04-01	0.60				
	Note: The site was being pumped.				
1943-12-01	0.60				
	Note: The site was being pumped.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1943-10-01	0.50				
Note: The site was being pumped.					
1943-09-15	0.50				
Note: The site was being pumped.					
1943-08-13	0.50				
Note: The site was being pumped.					
1943-07-15	0.50				
Note: The site was being pumped.					
1943-06-01	0.50				
Note: The site was being pumped.					
1943-05-01	0.60				
Note: The site was being pumped.					
1943-04-02	0.50				
Note: The site was being pumped.					
1943-03-02	0.80				
Note: The site was being pumped.					
1943-02-01	0.80		1943-01-15	0.80	
1942-12-16	0.60				
Note: The site was being pumped.					
1942-11-01	0.60				
Note: The site was being pumped.					
1942-10-16	0.60				
Note: The site was being pumped.					
1942-09-01	0.50				
Note: The site was being pumped.					
1942-08-03	0.50				
Note: The site was being pumped.					
1942-07-02	0.50				
Note: The site was being pumped.					
1942-06-01	0.50				
Note: The site was being pumped.					
1942-05-15	0.50				
Note: The site was being pumped.					
1941-11-18	50.40				
1941-10-05	0.60				
Note: The site was being pumped.					
1941-09-02	0.60				
Note: The site was being pumped.					
1941-08-01	0.50				
Note: The site was being pumped.					
1941-07-18	18.60				
1941-07-01	0.50				
Note: The site was being pumped.					
1941-06-15	0.40				
Note: The site was being pumped.					
1941-05-02	0.60				
Note: The site was being pumped.					
1941-03-11	59.60		1941-01-30	55.60	
1940-12-20	48.70				
1940-11-01	0.60				
Note: The site was being pumped.					
1940-10-05	0.50				
Note: The site was being pumped.					
1940-09-03	0.50				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1940-08-05	0.50				
Note: The site was being pumped.					
1940-07-01	0.50				
Note: The site was being pumped.					
1940-06-03	0.50				
Note: The site was being pumped.					
1940-05-01	38.80		1940-03-29	40.00	
1940-03-01	57.90		1940-01-31	56.20	
1940-01-03	38.80				
1940-01-02	0.60				
Note: The site was being pumped.					
1939-12-05	0.60				
Note: The site was being pumped.					
1939-11-01	0.50				
Note: The site was being pumped.					
1939-10-02	0.60				
Note: The site was being pumped.					
1939-09-02	0.50				
Note: The site was being pumped.					
1939-08-01	0.50				
Note: The site was being pumped.					
1939-07-15	0.50				
Note: The site was being pumped.					
1939-06-02	0.60				
Note: The site was being pumped.					
1939-05-02	31.90		1939-03-30	40.60	
1939-03-04	52.10				
1938-10-07	0.60				
Note: The site was being pumped.					
1938-09-06	0.60				
Note: The site was being pumped.					
1938-08-02	0.70				
Note: The site was being pumped.					
1938-07-01	0.70				
Note: The site was being pumped.					
1938-06-15	0.60				
Note: The site was being pumped.					
1937-08-02	0.60				
Note: The site was being pumped.					
1937-07-01	0.60				
Note: The site was being pumped.					
1916-04-15	65.30		1916-03-22	71.50	
1916-02-24	70.10		1916-01-14	68.70	
1915-12-23	62.00		1915-11-24	44.30	
1915-10-19	38.30		1915-09-13	37.80	
1915-08-17	34.10		1915-06-02	57.40	
1915-04-26	66.20				

**W106
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1/2 - 1 Mile
Higher**

FED USGS USGS40000140703

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340442117161802		
Monloc name:	001S004W14P006S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0783462
Longitude:	-117.2725422	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1023.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19520101	Welldepth:	691
Welldepth units:	ft	Wellholedepth:	691
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 280

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-03-31	122.50		1969-11-26	107.90	
1969-05-01	104.00		1969-01-03	111.00	
1968-05-03	122.00		1967-11-30	96.00	
1967-08-11	142.00		1967-07-07	134.00	
1967-06-02	117.00		1967-05-05	96.00	
1967-03-31	116.00		1967-03-03	116.00	
1967-02-03	85.00		1967-01-06	88.00	
1966-12-02	126.00		1966-11-04	136.00	
1966-10-07	130.00		1966-09-30	138.00	
1966-08-12	143.00		1966-07-29	143.00	
1966-06-24	131.50		1966-05-20	120.00	
1966-04-15	121.00		1966-03-11	103.00	
1966-02-11	85.00		1966-01-14	86.00	
1965-12-24	92.00		1965-11-26	100.00	
1965-10-22	127.30		1965-09-10	125.80	
1965-06-18	149.30				
Note: The site was being pumped.					
1965-05-14	99.00		1965-04-16	78.90	
1965-04-02	87.30		1965-03-19	85.90	
1965-03-05	107.30		1965-02-19	110.80	
1965-02-05	101.60		1965-01-15	82.60	
1965-01-02	87.90		1964-12-18	103.00	
1964-12-04	98.00		1964-11-20	89.00	
1964-11-06	111.50		1964-10-23	110.00	
1964-09-25	121.60		1964-08-14	127.60	
1964-07-17	149.30				
Note: The site was being pumped.					
1964-06-19	142.00				
Note: The site was being pumped.					
1964-05-15	130.60				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1964-05-01	102.30		1964-04-10	86.60	
1964-03-13	96.00		1964-02-14	96.00	
1964-01-10	129.00				
Note: The site was being pumped.					
1963-12-13	82.00		1963-11-29	79.60	
1963-11-15	91.90		1963-11-01	88.30	
1963-10-18	97.30		1963-10-04	88.30	
1963-09-13	141.00				
Note: The site was being pumped.					
1963-08-30	143.60				
Note: The site was being pumped.					
1963-08-16	140.90				
Note: The site was being pumped.					
1963-08-01	141.60				
Note: The site was being pumped.					
1963-07-12	138.00				
Note: The site was being pumped.					
1963-06-21	101.80		1963-06-07	91.90	
1963-05-24	91.50		1963-05-10	80.90	
1963-04-26	68.90		1963-03-29	68.20	
1963-03-15	73.50		1963-03-01	76.90	
1963-02-08	85.90		1963-01-26	87.50	
1962-12-21	84.40		1962-12-08	83.90	
1962-11-23	82.80				
1962-11-09	119.80				
Note: The site was being pumped.					
1962-10-26	125.90				
Note: The site was being pumped.					
1962-10-12	127.80				
Note: The site was being pumped.					
1962-09-28	88.90				
1962-09-14	130.80				
Note: The site was being pumped.					
1962-08-31	131.20				
Note: The site was being pumped.					
1962-08-17	130.50				
Note: The site was being pumped.					
1962-08-03	128.80				
Note: The site was being pumped.					
1962-07-20	123.80				
Note: The site was being pumped.					
1962-06-29	120.40				
Note: The site was being pumped.					
1962-06-15	70.90		1962-06-01	68.90	
1962-05-18	62.90				
1962-05-04	102.40				
Note: The site was being pumped.					
1962-04-13	101.90				
Note: The site was being pumped.					
1962-03-30	42.20		1962-03-16	42.70	
1962-03-02	52.90		1962-02-22	46.40	
1962-02-02	67.40		1962-01-05	62.40	
1961-12-22	51.90		1961-12-08	54.90	
1961-11-17	77.90		1961-11-03	75.90	
1961-10-13	103.90				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1961-09-29	104.90				
Note: The site was being pumped.					
1961-09-15	88.90				
1961-09-08	108.70				
Note: The site was being pumped.					
1961-08-04	92.90				
Note: The site was being pumped.					
1961-07-14	107.90				
Note: The site was being pumped.					
1961-06-30	110.50				
Note: The site was being pumped.					
1961-06-16	105.80				
Note: The site was being pumped.					
1961-06-02	72.20		1961-05-12	73.50	
1961-05-05	62.50		1961-04-14	69.90	
1961-03-31	53.50		1961-03-16	50.90	
1961-03-03	93.90				
Note: The site was being pumped.					
1961-02-17	59.90		1961-02-03	39.80	
1961-01-20	93.90				
Note: The site was being pumped.					
1961-01-06	62.50				
1960-12-23	94.90				
Note: The site was being pumped.					
1960-11-25	58.50		1960-11-11	40.50	
1960-10-28	66.90		1960-10-14	50.90	
1960-09-30	62.90		1960-09-14	69.50	
1960-09-02	75.20				
1960-08-19	101.90				
Note: The site was being pumped.					
1960-08-05	99.90				
Note: The site was being pumped.					
1960-07-15	100.20				
Note: The site was being pumped.					
1960-07-01	99.80				
Note: The site was being pumped.					
1960-06-22	97.90				
Note: The site was being pumped.					
1960-06-10	62.20				
1960-05-27	102.20				
Note: The site was being pumped.					
1960-05-20	99.90				
Note: The site was being pumped.					
1960-04-29	48.20		1960-04-15	92.90	
1960-04-01	95.90		1960-03-18	86.90	
1960-03-04	17.90				
1960-02-19	78.20				
Note: The site was being pumped.					
1960-01-29	28.90		1960-01-15	24.90	
1960-01-03	30.90		1959-12-18	58.40	
1959-12-04	96.40				
Note: The site was being pumped.					
1959-11-13	54.40		1959-11-02	59.70	
1959-10-19	101.20				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-10-02	91.70				
Note: The site was being pumped.					
1959-09-25	62.40		1959-09-18	59.40	
1959-09-11	86.70				
Note: The site was being pumped.					
1959-09-04	88.90				
Note: The site was being pumped.					
1959-08-28	97.90				
Note: The site was being pumped.					
1959-08-21	101.20				
Note: The site was being pumped.					
1959-08-14	89.20				
Note: The site was being pumped.					
1959-08-07	103.90				
Note: The site was being pumped.					
1959-07-31	98.90				
Note: The site was being pumped.					
1959-07-24	95.20				
Note: The site was being pumped.					
1959-07-17	95.20				
Note: The site was being pumped.					
1959-07-03	94.90				
Note: The site was being pumped.					
1959-06-26	72.50		1959-06-19	70.90	
1959-06-12	64.80		1959-06-05	62.20	
1959-05-22	87.80				
Note: The site was being pumped.					
1959-05-15	86.50				
Note: The site was being pumped.					
1959-05-08	92.90				
Note: The site was being pumped.					
1959-05-01	55.80		1959-04-24	51.50	
1959-04-17	45.80		1959-04-10	41.90	
1959-03-27	47.50		1959-03-13	19.90	
1959-02-20	13.50		1959-02-06	44.50	
1959-01-23	29.80		1959-01-02	35.80	
1958-12-19	46.50				
1958-12-05	82.20				
Note: The site was being pumped.					
1958-11-21	83.80				
Note: The site was being pumped.					
1958-11-07	83.20				
Note: The site was being pumped.					
1958-10-24	34.90				
1958-10-17	90.80				
Note: The site was being pumped.					
1958-10-10	49.50				
1958-09-26	90.90				
Note: The site was being pumped.					
1958-09-19	92.50				
Note: The site was being pumped.					
1958-09-13	53.80				
1958-09-05	87.20				
Note: The site was being pumped.					
1958-08-29	81.90				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-08-22	85.20				
Note: The site was being pumped.					
1958-08-16	43.50				
1958-08-08	93.50				
Note: The site was being pumped.					
1958-08-01	87.80				
Note: The site was being pumped.					
1958-07-25	91.80				
Note: The site was being pumped.					
1958-07-18	89.90				
Note: The site was being pumped.					
1958-07-11	92.50				
Note: The site was being pumped.					
1958-07-04	88.20				
Note: The site was being pumped.					
1958-06-27	91.40				
Note: The site was being pumped.					
1958-06-20	91.90				
Note: The site was being pumped.					
1958-06-13	91.20				
Note: The site was being pumped.					
1958-06-06	86.20				
Note: The site was being pumped.					
1958-05-30	60.90				
1958-05-23	87.40				
Note: The site was being pumped.					
1958-05-16	84.90				
Note: The site was being pumped.					
1958-05-09	82.20				
Note: The site was being pumped.					
1958-04-25	30.20		1958-04-10	60.90	
1958-03-29	3.90		1958-03-14	4.90	
1958-02-21	13.40		1958-02-07	16.20	
1958-01-24	34.20		1958-01-13	27.70	
1957-12-27	22.40		1957-12-13	28.90	
1957-11-29	37.70		1957-11-15	22.20	
1957-11-01	29.70		1957-10-18	39.90	
1957-10-04	67.20				
1957-09-28	112.40				
Note: The site was being pumped.					
1957-09-20	61.90				
1957-09-13	99.90				
Note: The site was being pumped.					
1957-09-06	99.90				
Note: The site was being pumped.					
1957-08-30	66.90		1957-08-25	65.20	
1957-08-23	99.90				
Note: The site was being pumped.					
1957-08-16	99.70				
Note: The site was being pumped.					
1957-08-09	98.90				
Note: The site was being pumped.					
1957-08-02	97.90				
Note: The site was being pumped.					
1957-07-26	102.90				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1957-07-19	100.90				
Note: The site was being pumped.					
1957-07-12	100.40				
Note: The site was being pumped.					
1957-07-05	95.20				
Note: The site was being pumped.					
1957-06-29	64.20				
1957-06-28	94.90				
Note: The site was being pumped.					
1957-06-21	93.90				
Note: The site was being pumped.					
1957-06-12	87.70				
Note: The site was being pumped.					
1957-05-25	23.70				
1957-05-10	77.90				
Note: The site was being pumped.					
1957-05-08	68.90				
Note: The site was being pumped.					
1957-04-28	67.70				
Note: The site was being pumped.					
1957-04-26	18.40		1957-04-17	39.20	
1957-04-12	31.90				
1957-04-01	74.70				
Note: The site was being pumped.					
1957-03-15	60.90				
Note: The site was being pumped.					
1957-03-01	12.70				
1957-02-15	69.90				
Note: The site was being pumped.					
1957-02-04	16.90		1957-01-21	11.40	
1957-01-04	33.20				
1956-12-14	82.70				
Note: The site was being pumped.					
1956-11-30	85.40				
Note: The site was being pumped.					
1956-11-16	42.40		1956-11-02	37.40	
1956-10-19	44.70		1956-10-05	45.40	
1956-09-21	93.20				
Note: The site was being pumped.					
1956-09-07	97.20				
Note: The site was being pumped.					
1956-08-24	95.20				
Note: The site was being pumped.					
1956-08-10	95.40				
Note: The site was being pumped.					
1956-07-27	51.10				
1956-07-13	91.40				
Note: The site was being pumped.					
1956-06-29	91.90				
Note: The site was being pumped.					
1956-06-15	90.60				
Note: The site was being pumped.					
1956-06-05	84.00				
Note: The site was being pumped.					
1956-05-07	80.30		1954-02-01	2.80	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1953-12-01	3.40		1952-10-01	6.50	
1952-09-02	8.60		1952-05-01	24.50	
1952-04-30	11.00				

X107
ENE
1/2 - 1 Mile
Higher

FED USGS

USGS40000140694

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340440117161601		
Monloc name:	001S004W14P003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0777906
Longitude:	-117.2719866	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1024.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19520101	Welldepth:	687
Welldepth units:	ft	Wellholedepth:	690
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

Y108
WSW
1/2 - 1 Mile
Lower

FED USGS

USGS40000140521

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340413117173301		
Monloc name:	001S004W22E001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0702908
Longitude:	-117.2933762	Sourcemap scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	980.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19360101	Welldepth:	508
Welldepth units:	ft	Wellholedepth:	524
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 12

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1940-10-26	18.00		1940-09-02	40.00	
1940-08-15	41.00		1940-07-02	34.00	
1940-05-04	13.00		1940-03-28	8.00	
1940-02-16	4.50		1940-01-27	5.00	
1939-11-12	15.00				
	Note: The site was being pumped.				
1939-09-30	28.00				
	Note: The site was being pumped.				
1939-08-20	32.20				
	Note: The site was being pumped.				
1939-08-01	34.20				
	Note: The site was being pumped.				

W109
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40000140707

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340443117161701		
Monloc name:	001S004W14P001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0786239
Longitude:	-117.2722644	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1024.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported
 Construction date: 19500101 Welldepth: 120
 Welldepth units: ft Wellholedepth: 121
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1950-09-14	28.00	

Z110
West
1/2 - 1 Mile
Lower

FED USGS USGS40000140578

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340422117173601
 Monloc name: 001S004W22E005S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: 18070203 Drainagearea value: Not Reported
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported
 Contrib drainagearea units: Not Reported Latitude: 34.0727907
 Longitude: -117.2942095 Sourcemap scale: Not Reported
 Horiz Acc measure: 1 Horiz Acc measure units: seconds
 Horiz Collection method: Interpolated from map
 Horiz coord refsys: NAD83 Vert measure val: 975.00
 Vert measure units: feet Vertacc measure val: .1
 Vert accmeasure units: feet
 Vertcollection method: Level or other surveying method
 Vert coord refsys: NGVD29 Countrycode: US
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Not Reported
 Construction date: 19630101 Welldepth: 126
 Welldepth units: ft Wellholedepth: 146
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 7

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-03-30	116.10		1969-11-21	134.60	
1969-04-27					
Note: The site was dry (no water level recorded).					
1969-01-02					
Note: The site was dry (no water level recorded).					
1968-05-23	140.00		1967-11-30	139.30	
1964-01-07	105.05				

X111
ENE
1/2 - 1 Mile
Higher

CA WELLS 911

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Water System Information:

Prime Station Code:	01S/04W-14P06 S	User ID:	WAT
FRDS Number:	3310031079	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340439.7 1171614.0	Precision:	10 Feet (1/10 Second)
Source Name:	RAUB WELL 03		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		
Sample Collected:	11-DEC-08	Findings:	34. UG/L
Chemical:	PERCHLORATE		

**AA112
WSW
1/2 - 1 Mile
Lower**

FED USGS USGS40000140493

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340408117173101		
Monloc name:	001S004W22M003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0689019
Longitude:	-117.2928206	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	979.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	94
Welldepth units:	ft	Wellholedepth:	94
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

**AB113
South
1/2 - 1 Mile
Higher**

CA WELLS CADW60000019291

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid: 19291
 Latitude: 34.0636
 Longitude: -117.2818
 Site code: 340636N1172818W001
 State well numbe: 01S04W22R007S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000019291

AB114
South
1/2 - 1 Mile
Higher

FED USGS USGS40000140412

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340349117164801
 Monloc name: 001S004W22R007S
 Monloc type: Well
 Monloc desc: ORIGINAL DEPTH 168 FT, SOUNDED 144 FT, 1/96
 Huc code: 18070203 Drainagearea value: Not Reported
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported
 Contrib drainagearea units: Not Reported Latitude: 34.0636244
 Longitude: -117.2808757 Sourcemap scale: 24000
 Horiz Acc measure: 1 Horiz Acc measure units: seconds
 Horiz Collection method: Interpolated from map
 Horiz coord refsys: NAD83 Vert measure val: 1010.00
 Vert measure units: feet Vertacc measure val: 10
 Vert accmeasure units: feet
 Vertcollection method: Interpolated from topographic map
 Vert coord refsys: NGVD29 Countrycode: US
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Not Reported
 Construction date: 19551220 Welldepth: 144
 Welldepth units: ft Wellholedepth: 168
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 19

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-10-19	76.72				
Note: The site had been pumped recently.					
2004-04-20	62.29		2003-10-21	66.62	
2003-04-22	51.67		2002-10-29	60.70	
2002-04-08	51.67				
2001-10-25	46.18				
Note: The site had been pumped recently.					
2001-04-16	32.57				
Note: The site had been pumped recently.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2000-10-25	44.08				
2000-04-13	38.77				
Note: The site had been pumped recently.					
1999-10-21	51.50		1999-04-15	27.16	
1998-10-19	40.12		1998-04-14	21.90	
1997-10-28	52.13		1997-04-14	45.24	
1996-10-07	58.15		1996-04-22	43.82	
1996-01-25	41.83				

Note: The site had been pumped recently.

Y115
WSW
1/2 - 1 Mile
Lower

FED USGS

USGS40000140496

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340409117173301		
Monloc name:	001S004W22M001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0691797
Longitude:	-117.2933762	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	979.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	81
Welldepth units:	ft	Wellholedepth:	81
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

116
NNW
1/2 - 1 Mile
Lower

CA WELLS

912

Water System Information:

Prime Station Code:	01S/04W-15K02 S	User ID:	36C
FRDS Number:	3600331001	County:	San Beernardino
District Number:	66	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340500.0 1171710.0	Precision:	100 Feet (one Second)
Source Name:	WASHINGTON ST WELL		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number: 3600331
 System Name: VALLEY FARMS MWC
 Organization That Operates System:
 Not Reported
 Pop Served: Unknown, Small System Connections: Unknown, Small System
 Area Served: Not Reported

AB117 Site ID: 083601595T
South Groundwater Flow: Not Reported **AQUIFLOW** **34243**
1/2 - 1 Mile Shallow Water Depth: 10.84
Higher Deep Water Depth: 36.44
 Average Water Depth: Not Reported
 Date: 09/15/1998

AA118 **FED USGS** **USGS40000140485**
WSW
1/2 - 1 Mile
Lower

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340407117173301
 Monloc name: 001S004W22M002S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: 18070203 Drainagearea value: Not Reported
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported
 Contrib drainagearea units: Not Reported Latitude: 34.0686242
 Longitude: -117.2933761 Sourcemap scale: Not Reported
 Horiz Acc measure: 1 Horiz Acc measure units: seconds
 Horiz Collection method: Interpolated from map
 Horiz coord refsys: NAD83 Vert measure val: 979.00
 Vert measure units: feet Vertacc measure val: 10
 Vert accmeasure units: feet
 Vertcollection method: Interpolated from topographic map
 Vert coord refsys: NGVD29 Countrycode: US
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Not Reported
 Construction date: Not Reported Welldepth: 90
 Welldepth units: ft Wellholedepth: 92
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 0

Y119 **CA WELLS** **CADW60000017129**
WSW
1/2 - 1 Mile
Lower

Objectid: 17129
 Latitude: 34.0703
 Longitude: -117.2943
 Site code: 340703N1172943W001
 State well numbe: 01S04W22E001S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000017129

AC120
South
1/2 - 1 Mile
Higher

FED USGS

USGS40000140408

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340348117164601		
Monloc name:	001S004W22R003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0633467
Longitude:	-117.28032	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1018.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19530101	Welldepth:	130
Welldepth units:	ft	Wellholedepth:	150
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

Z121
West
1/2 - 1 Mile
Lower

CA WELLS

CADW60000017130

Objectid: 17130
 Latitude: 34.0728
 Longitude: -117.2951
 Site code: 340728N1172951W001
 State well numbe: 01S04W22E005S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000017130

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AC122
SSE
1/2 - 1 Mile
Higher

CA WELLS 955

Water System Information:

Prime Station Code:	01S/04W-27A10 S	User ID:	WAT
FRDS Number:	3310031053	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340348.4 1171641.9	Precision:	10 Feet (1/10 Second)
Source Name:	HUNT WELL 11		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		
Sample Collected:	13-JAN-06	Findings:	35. MG/L
Chemical:	NITRATE (AS NO3)		

AD123
SSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140416

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340350117171301		
Monloc name:	001S004W22P001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0639022
Longitude:	-117.2878204	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	990.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	558
Welldepth units:	ft	Wellholedepth:	558
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AE124
WNW
1/2 - 1 Mile
Lower

FED USGS USGS40000140661

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340437117173801		
Monloc name:	001S004W22D003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0769572
Longitude:	-117.2947651	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	980
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported		
Welldepth units:	Not Reported	Welldepth:	Not Reported
Wellholedepth units:	Not Reported	Wellholedepth:	Not Reported

Ground-water levels, Number of Measurements: 0

AC125
SSE
1/2 - 1 Mile
Higher

CA WELLS 956

Water System Information:

Prime Station Code:	01S/04W-27A11 S	User ID:	WAT
FRDS Number:	3310031051	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340347.8 1171644.3	Precision:	10 Feet (1/10 Second)
Source Name:	HUNT WELL 06		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE	Findings:	3.85 PCI/L
Sample Collected:	20-JUL-11		
Chemical:	GROSS ALPHA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	20-JUL-11	Findings:	1.74 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	20-JUL-11	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	20-JUL-11	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	20-JUL-11	Findings:	240. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	20-JUL-11	Findings:	290. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	20-JUL-11	Findings:	2.2 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	20-JUL-11	Findings:	240. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	20-JUL-11	Findings:	68. MG/L
Chemical:	CALCIUM		
Sample Collected:	20-JUL-11	Findings:	18. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	20-JUL-11	Findings:	100. MG/L
Chemical:	SODIUM		
Sample Collected:	20-JUL-11	Findings:	2.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	20-JUL-11	Findings:	61. MG/L
Chemical:	CHLORIDE		
Sample Collected:	20-JUL-11	Findings:	89. MG/L
Chemical:	SULFATE		
Sample Collected:	20-JUL-11	Findings:	0.8 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	20-JUL-11	Findings:	3.6 UG/L
Chemical:	ARSENIC		
Sample Collected:	20-JUL-11	Findings:	190. UG/L
Chemical:	BORON		
Sample Collected:	20-JUL-11	Findings:	140. UG/L
Chemical:	IRON		
Sample Collected:	20-JUL-11	Findings:	7.1 UG/L
Chemical:	VANADIUM		
Sample Collected:	20-JUL-11	Findings:	3.9 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	20-JUL-11	Findings:	520. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	20-JUL-11	Findings:	1.4
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	20-JUL-11	Findings:	14. MG/L
Chemical:	NITRATE (AS NO ₃)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	20-JUL-11	Findings:	4200. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	20-JUL-11	Findings:	0.53 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	20-JUL-11	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	20-JUL-11	Findings:	3100. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	10-DEC-14	Findings:	0.92 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	10-DEC-14	Findings:	3.8 UG/L
Chemical:	ARSENIC		
Sample Collected:	10-DEC-14	Findings:	300. UG/L
Chemical:	BORON		
Sample Collected:	10-DEC-14	Findings:	2.3 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	10-DEC-14	Findings:	3.9 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10-DEC-14	Findings:	3.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-DEC-14	Findings:	3.2 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-DEC-14	Findings:	8.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-DEC-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	29-DEC-14	Findings:	5. UNITS
Chemical:	COLOR		
Sample Collected:	29-DEC-14	Findings:	670. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	29-DEC-14	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	29-DEC-14	Findings:	190. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	29-DEC-14	Findings:	240. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	29-DEC-14	Findings:	170. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	29-DEC-14	Findings:	50. MG/L
Chemical:	CALCIUM		
Sample Collected:	29-DEC-14	Findings:	12. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	29-DEC-14	Findings:	70. MG/L
Chemical:	SODIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	29-DEC-14	Findings:	2.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	29-DEC-14	Findings:	42. MG/L
Chemical:	CHLORIDE		
Sample Collected:	29-DEC-14	Findings:	74. MG/L
Chemical:	SULFATE		
Sample Collected:	29-DEC-14	Findings:	380. UG/L
Chemical:	IRON		
Sample Collected:	29-DEC-14	Findings:	410. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	29-DEC-14	Findings:	1.
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	29-DEC-14	Findings:	7. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	29-DEC-14	Findings:	2.9 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	29-DEC-14	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	29-DEC-14	Findings:	1600. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	24-DEC-15	Findings:	2.2 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	24-DEC-15	Findings:	0.98 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	24-DEC-15	Findings:	4.7 UG/L
Chemical:	ARSENIC		
Sample Collected:	24-DEC-15	Findings:	48. UG/L
Chemical:	MANGANESE		
Sample Collected:	24-DEC-15	Findings:	3.4 UG/L
Chemical:	MOLYDBENDUM		
Sample Collected:	24-DEC-15	Findings:	9. UG/L
Chemical:	VANADIUM		
Sample Collected:	24-DEC-15	Findings:	4.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	24-DEC-15	Findings:	3.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-DEC-15	Findings:	9.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-DEC-15	Findings:	2200. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	24-DEC-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-MAY-16	Findings:	580. US
Chemical:	SPECIFIC CONDUCTANCE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	13-MAY-16	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	13-MAY-16	Findings:	140. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	13-MAY-16	Findings:	170. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	13-MAY-16	Findings:	3.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	13-MAY-16	Findings:	140. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	13-MAY-16	Findings:	43. MG/L
Chemical:	CALCIUM		
Sample Collected:	13-MAY-16	Findings:	7.9 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	13-MAY-16	Findings:	61. MG/L
Chemical:	SODIUM		
Sample Collected:	13-MAY-16	Findings:	2.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	13-MAY-16	Findings:	35. MG/L
Chemical:	CHLORIDE		
Sample Collected:	13-MAY-16	Findings:	73. MG/L
Chemical:	SULFATE		
Sample Collected:	13-MAY-16	Findings:	1. MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	13-MAY-16	Findings:	5.4 UG/L
Chemical:	ARSENIC		
Sample Collected:	13-MAY-16	Findings:	350. UG/L
Chemical:	BORON		
Sample Collected:	13-MAY-16	Findings:	460. UG/L
Chemical:	IRON		
Sample Collected:	13-MAY-16	Findings:	23. UG/L
Chemical:	MANGANESE		
Sample Collected:	13-MAY-16	Findings:	9.2 UG/L
Chemical:	VANADIUM		
Sample Collected:	13-MAY-16	Findings:	3.1 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	13-MAY-16	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	13-MAY-16	Findings:	2.1 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	13-MAY-16	Findings:	350. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	13-MAY-16	Findings:	0.76
Chemical:	LANGELIER INDEX @ 60 C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	13-MAY-16	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	13-MAY-16	Findings:	3.5 MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	13-MAY-16	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		

AD126
SSW
1/2 - 1 Mile
Higher

FED USGS USGS40000140413

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340349117171101		
Monloc name:	001S004W22Q001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0636244
Longitude:	-117.2872648	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1000.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19380101	Welldepth:	117
Welldepth units:	ft	Wellholeddepth:	117
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

AB127
South
1/2 - 1 Mile
Higher

FED USGS USGS40000140394

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340346117165101		
Monloc name:	001S004W27A012S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0627911
Longitude:	-117.281709	Sourcemap scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1010.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19140101	Welldepth:	700
Welldepth units:	ft	Wellholedepth:	700
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

AF128
SW
1/2 - 1 Mile
Lower

FED USGS USGS40000140452

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340402117173201		
Monloc name:	001S004W22M007S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0672353
Longitude:	-117.2930984	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	975.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19270101	Welldepth:	419
Welldepth units:	ft	Wellholedepth:	440
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 5

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1966-04-11	114.00				
1965-11-23					
Note: An obstruction was encountered in the well above the water surface (no water level recorded).					
1965-04-27	106.60		1965-03-18	121.50	
1964-11-27	122.40				

AG129
NW
1/2 - 1 Mile
Lower

Site ID:	083602513T
Groundwater Flow:	W
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	18.03
Date:	03/31/1999

AQUIFLOW 52047

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

130
SSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140419

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340351117171801		
Monloc name:	001S004W22P002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0641799
Longitude:	-117.2892093	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	990.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19610101	Welldepth:	170
Welldepth units:	ft	Wellholedepth:	172
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

131
North
1/2 - 1 Mile
Higher

FED USGS USGS40000140783

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340505117165501		
Monloc name:	001S004W15H002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0847347
Longitude:	-117.2828203	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1004.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	80
Construction date:	19300101	Wellholeddepth:	80
Welldepth units:	ft		
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

AC132
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000140393

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340346117164301		
Monloc name:	001S004W27A005S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0627912
Longitude:	-117.2794867	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1015.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19110101	Welldepth:	408
Welldepth units:	ft	Wellholeddepth:	408
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

AG133
WNW
1/2 - 1 Mile
Lower

FED USGS USGS40000140721

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340447117173401		
Monloc name:	001S004W15N00AS		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0797348
Longitude:	-117.293654	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	982.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported
 Construction date: 19550101 Welldepth: 80
 Welldepth units: ft Wellholedepth: 85
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1955-05-06	15.00	

AE134
WNW
1/2 - 1 Mile
Lower

FED USGS USGS40000140682

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340439117173906
 Monloc name: 001S004W22D006S
 Monloc type: Well
 Monloc desc: VAULT 2
 Huc code: 18070203 Drainagearea value: Not Reported
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported
 Contrib drainagearea units: Not Reported Latitude: 34.0774028
 Longitude: -117.2951472 Sourcemap scale: 24000
 Horiz Acc measure: .01 Horiz Acc measure units: seconds
 Horiz Collection method: Differentially corrected Global Positioning System (DGPS)
 Horiz coord refsys: NAD83 Vert measure val: 977.49
 Vert measure units: feet Vertacc measure val: .5
 Vert accmeasure units: feet
 Vertcollection method: Differential Global Positioning System (GPS)r
 Vert coord refsys: NAVD88 Countrycode: US
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Mixed (confined and unconfined multiple aquifers)
 Construction date: 19741002 Welldepth: 394.2
 Welldepth units: ft Wellholedepth: 700
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 143

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
-----			-----		
2004-11-17	86.21		2004-11-15	86.65	
2004-11-10	87.72		2004-09-15	105.54	
2004-08-25	114.48		2004-07-15	137.30	
2004-06-15	159.55		2004-05-20	185.28	
2004-05-20	184.43		2004-01-22	51.80	
2003-12-16	54.88		2003-11-14	55.97	
2003-10-16	52.93		2003-09-11	47.76	
2003-08-21	44.36		2003-07-09	36.80	
2003-05-30	34.78		2003-04-24	38.72	
2003-03-27	42.90		2003-02-12	48.38	
2003-01-16	52.11		2002-12-11	59.00	
2002-11-20	62.33		2002-09-25	61.29	
2002-08-12	54.09		2002-07-18	48.52	
2002-06-12	38.33		2002-05-30	33.55	
2002-05-15	30.22		2002-04-11	26.88	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2002-03-05	24.87		2002-01-24	23.72	
2001-12-20	22.79		2001-11-21	22.12	
2001-10-24	22.02		2001-09-20	21.72	
2001-08-21	20.92		2001-07-18	20.18	
2001-06-12	20.13		2001-05-17	20.59	
2001-04-19	22.03		2001-03-21	24.42	
2001-02-22	27.68		2001-01-23	32.37	
2000-12-19	39.10		2000-11-22	45.08	
2000-10-19	54.71		2000-09-20	68.74	
2000-08-18	100.31		2000-06-28	286.25	
2000-03-30	24.53		2000-03-01	27.52	
2000-01-13	34.22		1999-12-09	43.18	
1999-11-03	43.02		1999-10-04	29.95	
1999-09-03	27.86		1999-08-06	24.97	
1999-07-29	24.05		1999-07-22	23.26	
1999-06-25	20.35		1999-06-09	18.83	
1999-05-07	14.69		1999-04-02	15.14	
1999-03-05	15.75		1999-02-05	18.12	
1999-01-08	20.58		1998-12-10	26.21	
1998-11-10	34.66		1998-10-05	23.40	
1998-09-10	21.18		1998-08-05	16.80	
1998-07-01	13.43		1998-05-29	11.36	
1998-04-22	11.54		1998-03-18	13.25	
1998-02-09	17.47		1998-01-06	22.65	
1997-12-05	30.43		1997-10-30	39.54	
1997-10-03	30.65		1997-09-24	26.20	
1997-08-27	23.11		1997-07-10	19.41	
1997-06-04	15.92		1997-05-02	22.64	
1997-04-10	18.62		1997-03-24	17.51	
1997-02-13	19.72		1997-01-15	24.88	
1996-12-09	37.24		1996-11-06	53.75	
1996-10-03	44.86		1996-09-12	50.57	
1996-08-02	40.40		1996-07-03	35.12	
1996-06-07	22.65		1996-05-22	20.97	
1996-04-04	16.60		1996-03-14	18.25	
1996-02-23	21.02		1995-12-08	31.17	
1995-11-03	32.09		1995-10-04	32.41	
1995-09-08	29.27		1995-08-03	27.35	
1995-07-06	24.01		1995-05-23	20.83	
1995-04-19	47.50		1995-04-03	20.16	
1995-03-14	23.01		1995-01-31	32.59	
1994-12-30	44.12		1994-12-01	51.45	
1994-11-09	56.32		1994-10-05	48.11	
1994-08-24	34.08		1994-07-19	21.57	
1994-06-02	18.08		1994-04-14	17.85	
1994-03-02	29.58		1994-01-18	44.97	
1994-01-07	49.87		1993-12-07	61.11	
1993-10-22	54.22		1993-09-13	44.45	
1993-08-05	33.56		1993-06-24	21.40	
1993-05-11	12.46		1993-03-24	14.58	
1993-03-11	16.29		1993-02-16	20.20	
1993-01-04	32.85				
1992-11-25	46.28				

Note: A nearby site that taps the same aquifer was being pumped.

1992-10-19 34.94

Note: A nearby site that taps the same aquifer was being pumped.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1992-09-17	29.68				
Note: A nearby site that taps the same aquifer was being pumped.					
1992-07-01	19.80		1992-06-23	18.69	
1992-04-08	13.78		1992-01-02	26.71	
1991-11-15	25.70		1991-11-12	25.68	
1991-10-29	25.98				

**AE135
WNW
1/2 - 1 Mile
Lower**

FED USGS USGS40000140680

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340439117173904
 Monloc name: 001S004W22D004S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: 18070203 Drainagearea value: Not Reported
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported
 Contrib drainagearea units: Not Reported Latitude: 34.0774028
 Longitude: -117.2951472 Sourcemap scale: 24000
 Horiz Acc measure: .01 Horiz Acc measure units: seconds
 Horiz Collection method: Differentially corrected Global Positioning System (DGPS)
 Horiz coord refsys: NAD83 Vert measure val: 977.44
 Vert measure units: feet Vertacc measure val: .5
 Vert accmeasure units: feet
 Vertcollection method: Differential Global Positioning System (GPS)r
 Vert coord refsys: NAVD88 Countrycode: US
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Mixed (confined and unconfined multiple aquifers)
 Construction date: 19741002 Welldepth: 653.2
 Welldepth units: ft Wellholedepth: 700
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 146

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-11-17	53.39		2004-11-15	53.24	
2004-11-10	53.52		2004-09-15	60.08	
2004-08-25	57.85		2004-07-15	53.29	
2004-06-15	49.18		2004-05-20	45.48	
2004-03-17	42.02		2004-02-11	43.69	
2004-01-22	44.15		2003-12-16	49.33	
2003-11-14	57.85		2003-10-16	60.40	
2003-09-11	61.50		2003-08-21	58.41	
2003-07-09	50.05		2003-05-30	39.20	
2003-04-24	35.05		2003-03-27	35.06	
2003-02-12	42.85		2003-01-16	40.30	
2002-12-11	46.81		2002-11-20	51.07	
2002-11-01	57.48		2002-09-25	63.02	
2002-08-12	60.56		2002-07-18	60.06	
2002-06-12	61.45		2002-05-30	56.10	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2002-05-15	50.95		2002-04-11	41.09	
2002-03-05	29.41		2002-01-24	28.78	
2001-12-20	27.48		2001-11-21	28.66	
2001-10-24	33.12		2001-09-20	34.91	
2001-08-21	36.01		2001-07-18	30.94	
2001-06-12	23.72		2001-05-17	19.65	
2001-04-19	14.63		2001-03-21	13.05	
2001-02-22	14.09		2001-01-23	18.32	
2000-12-19	22.87		2000-11-22	24.36	
2000-10-19	27.52		2000-09-20	31.01	
2000-08-18	30.88		2000-07-11	27.60	
2000-06-28	27.09		2000-05-22	21.98	
2000-03-30	19.33		2000-03-01	21.31	
2000-01-13	27.98		1999-12-09	34.10	
1999-11-03	37.73		1999-10-04	33.44	
1999-09-03	34.12		1999-08-06	31.86	
1999-07-29	30.85		1999-07-22	29.40	
1999-06-25	24.00		1999-06-09	20.45	
1999-05-07	11.15		1999-04-02	8.75	
1999-03-05	8.31		1999-02-05	12.22	
1999-01-08	13.54		1998-12-10	17.23	
1998-11-10	22.83		1998-10-05	21.42	
1998-09-10	22.76		1998-08-05	20.71	
1998-07-01	13.29		1998-05-29	7.18	
1998-04-22	5.04		1998-03-18	7.04	
1998-02-09	9.66		1998-01-06	16.86	
1997-12-05	28.24		1997-10-30	40.79	
1997-10-03	39.42		1997-09-24	39.88	
1997-08-27	38.43		1997-07-10	37.76	
1997-06-04	36.44		1997-05-02	28.87	
1997-04-10	26.51		1997-03-24	24.18	
1997-02-13	14.28		1997-01-15	18.90	
1996-12-09	32.10		1996-11-06	43.18	
1996-10-03	43.62		1996-09-12	44.84	
1996-08-02	40.63		1996-07-03	43.45	
1996-06-07	37.11		1996-05-22	34.05	
1996-04-04	14.09		1996-03-14	15.89	
1996-02-23	21.50		1995-12-08	42.60	
1995-11-03	45.38		1995-10-04	48.56	
1995-09-08	46.61		1995-08-03	41.64	
1995-07-06	38.34		1995-05-23	31.76	
1995-04-19	17.85		1995-04-03	31.67	
1995-03-14	34.62		1995-01-31	40.77	
1994-12-30	43.97		1994-12-01	44.77	
1994-11-09	44.30		1994-10-05	42.52	
1994-08-24	38.11		1994-07-19	35.46	
1994-06-02	32.60		1994-04-14	35.30	
1994-03-02	42.90		1994-01-18	46.19	
1994-01-07	46.65		1993-12-07	45.46	
1993-10-22	40.61		1993-09-13	35.30	
1993-08-05	29.70		1993-06-24	24.69	
1993-05-11	22.40		1993-03-24	28.29	
1993-02-16	33.99		1993-01-04	40.88	
1992-11-25	41.14				

Note: A nearby site that taps the same aquifer was being pumped.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1992-10-19	37.68				
Note: A nearby site that taps the same aquifer was being pumped.					
1992-09-17	34.20				
Note: A nearby site that taps the same aquifer was being pumped.					
1992-07-01	23.71		1992-06-23	22.81	
1992-04-08	21.98		1992-01-02	34.62	
1991-11-15	31.04		1991-11-12	30.84	
1991-10-29	29.73				

**AE136
WNW
1/2 - 1 Mile
Lower**

FED USGS

USGS40000140679

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340439117173902		
Monloc name:	001S004W22D002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0774028
Longitude:	-117.2951472	Sourcemap scale:	24000
Horiz Acc measure:	.01	Horiz Acc measure units:	seconds
Horiz Collection method:	Differentially corrected Global Positioning System (DGPS)		
Horiz coord refsys:	NAD83	Vert measure val:	977.42
Vert measure units:	feet	Vertacc measure val:	.5
Vert accmeasure units:	feet		
Vertcollection method:	Differential Global Positioning System (GPS)r		
Vert coord refsys:	NAVD88	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Mixed (confined and unconfined multiple aquifers)		
Construction date:	19741002	Welldepth:	157
Welldepth units:	ft	Wellholedepth:	700
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 149

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-11-17	50.92		2004-11-15	51.13	
2004-11-10	50.13		2004-09-15	48.95	
2004-08-25	47.65		2004-07-15	44.25	
2004-06-15	41.17		2004-05-20	38.88	
2004-03-17	40.60		2004-02-11	66.94	
2004-01-22	48.15		2003-12-16	50.92	
2003-11-14	64.63		2003-10-16	60.29	
2003-09-11	77.65		2003-08-21	63.58	
2003-07-09	51.60		2003-05-30	31.88	
2003-04-24	29.90		2003-03-27	31.42	
2003-02-12	44.38		2003-01-16	38.06	
2002-12-11	45.51		2002-11-20	53.35	
2002-11-01	63.10		2002-09-25	86.18	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2002-08-12	84.23		2002-07-18	80.60	
2002-07-10	81.60		2002-06-28	80.62	
2002-06-12	63.49		2002-05-30	74.49	
2002-05-15	49.76		2002-04-11	49.03	
2002-03-05	25.71		2002-01-24	36.36	
2001-12-20	31.28		2001-11-21	24.95	
2001-10-24	25.18		2001-09-20	26.10	
2001-08-21	30.49		2001-07-18	24.12	
2001-06-12	20.75		2001-05-17	18.86	
2001-04-19	16.30		2001-03-21	17.69	
2001-02-22	12.56		2001-01-23	17.18	
2000-12-19	22.27		2000-11-22	28.32	
2000-10-19	27.12		2000-09-20	28.16	
2000-08-18	27.70		2000-07-11	27.80	
2000-06-28	27.58		2000-05-22	24.90	
2000-03-30	20.36		2000-03-01	28.04	
2000-01-13	29.77		1999-12-09	40.21	
1999-11-03	59.96		1999-10-04	51.87	
1999-09-03	37.56		1999-08-06	34.95	
1999-07-29	33.82		1999-07-22	32.82	
1999-06-25	30.99		1999-06-09	22.98	
1999-05-07	19.98		1999-04-02	14.43	
1999-03-05	16.60		1999-02-05	14.89	
1999-01-08	16.96		1998-12-10	19.34	
1998-11-10	44.31		1998-10-05	24.40	
1998-09-10	25.02		1998-08-05	22.23	
1998-07-01	18.25		1998-05-29	10.61	
1998-04-22	11.37		1998-03-18	11.09	
1998-02-09	14.73		1998-01-06	19.05	
1997-12-05	24.48		1997-10-30	34.69	
1997-10-03	47.72		1997-09-24	32.71	
1997-08-27	33.07		1997-07-10	35.92	
1997-06-04	49.62		1997-05-02	27.46	
1997-04-10	22.91		1997-03-24	19.10	
1997-02-13	16.37		1997-01-15	20.02	
1996-12-09	28.72		1996-11-06	59.09	
1996-10-03	38.66		1996-09-12	58.80	
1996-08-02	52.58		1996-07-03	33.99	
1996-06-07	24.10		1996-05-22	23.28	
1996-04-04	16.23		1996-03-14	17.06	
1996-02-23	19.02		1995-12-08	33.49	
1995-11-03	30.80		1995-10-04	37.69	
1995-09-08	30.56		1995-08-03	28.32	
1995-07-06	25.08		1995-05-23	22.67	
1995-04-19	18.24		1995-04-03	17.40	
1995-03-14	19.23		1995-01-31	25.02	
1994-12-30	37.77		1994-12-01	44.96	
1994-11-09	66.40		1994-10-05	58.58	
1994-08-24	46.68		1994-07-19	21.68	
1994-06-02	17.18		1994-04-14	12.42	
1994-03-02	18.28		1994-01-18	30.41	
1994-01-07	32.83		1993-12-07	64.59	
1993-10-22	63.80		1993-09-13	56.03	
1993-08-05	45.42		1993-06-24	33.67	
1993-05-11	11.42		1993-03-24	9.32	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1993-03-11	10.13		1993-02-16	13.12	
1993-01-04	22.97				
1992-11-25	52.37				
Note: A nearby site that taps the same aquifer was being pumped.					
1992-10-19	41.92				
Note: A nearby site that taps the same aquifer was being pumped.					
1992-09-17	29.11				
Note: A nearby site that taps the same aquifer was being pumped.					
1992-07-01	20.01		1992-06-23	18.67	
1992-04-08	9.13		1992-01-02	24.22	
1991-11-15	24.34		1991-11-12	24.57	
1991-10-29	24.28				

**AE137
WNW
1/2 - 1 Mile
Lower**

FED USGS USGS40000140681

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340439117173905
 Monloc name: 001S004W22D005S
 Monloc type: Well
 Monloc desc: VAULT 4
 Huc code: 18070203 Drainagearea value: Not Reported
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported
 Contrib drainagearea units: Not Reported Latitude: 34.0774056
 Longitude: -117.2951472 Sourcemap scale: 24000
 Horiz Acc measure: .01 Horiz Acc measure units: seconds
 Horiz Collection method: Differentially corrected Global Positioning System (DGPS)
 Horiz coord refsys: NAD83 Vert measure val: 977.35
 Vert measure units: feet Vertacc measure val: .5
 Vert accmeasure units: feet
 Vertcollection method: Differential Global Positioning System (GPS)r
 Vert coord refsys: NAVD88 Countrycode: US
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Mixed (confined and unconfined multiple aquifers)
 Construction date: 19741002 Welldepth: 524.2
 Welldepth units: ft Wellholedepth: 700
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 146

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-11-17	46.39		2004-11-15	46.35	
2004-11-10	46.40		2004-09-15	44.02	
2004-08-25	42.40		2004-07-15	39.12	
2004-06-15	37.16		2004-05-20	36.31	
2004-03-17	38.98		2004-02-11	44.54	
2004-01-22	42.73		2003-12-16	51.79	
2003-11-14	51.94		2003-10-16	49.13	
2003-09-11	44.33		2003-08-21	41.34	
2003-07-09	33.88		2003-05-30	31.02	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2003-04-24	32.36		2003-03-27	33.66	
2003-02-12	33.72		2003-01-16	34.82	
2002-12-11	43.34		2002-11-20	50.93	
2002-11-01	58.20		2002-09-25	55.03	
2002-08-12	49.60		2002-07-18	45.92	
2002-06-12	40.08		2002-05-30	37.47	
2002-05-15	34.80		2002-04-11	30.16	
2002-03-05	26.22		2002-01-24	25.66	
2001-12-20	24.11		2001-11-21	22.47	
2001-10-24	22.82		2001-09-20	23.55	
2001-08-21	22.63		2001-07-18	20.38	
2001-06-12	18.15		2001-05-17	16.71	
2001-04-19	15.60		2001-03-21	15.36	
2001-02-22	15.72		2001-01-23	18.25	
2000-12-19	20.88		2000-11-22	25.54	
2000-10-19	26.29		2000-09-20	25.16	
2000-08-18	25.17		2000-07-11	24.84	
2000-06-28	24.09		2000-05-22	21.91	
2000-03-30	28.32		2000-03-01	29.38	
2000-01-13	30.30		1999-12-09	30.16	
1999-11-03	26.80		1999-10-04	22.92	
1999-09-03	21.45		1999-08-06	20.06	
1999-07-29	19.72		1999-07-22	19.45	
1999-06-25	18.48		1999-06-09	18.16	
1999-05-07	17.78		1999-04-02	18.64	
1999-03-05	19.41		1999-02-05	20.39	
1999-01-08	21.11		1998-12-10	21.84	
1998-11-10	21.74		1998-10-05	18.10	
1998-09-10	16.92		1998-08-05	15.38	
1998-07-01	14.45		1998-05-29	14.68	
1998-04-22	16.58		1998-03-18	19.91	
1998-02-09	25.06		1998-01-06	30.45	
1997-12-05	32.70		1997-10-30	33.45	
1997-10-03	31.75		1997-09-24	31.32	
1997-08-27	31.55		1997-07-10	31.06	
1997-06-04	28.42		1997-05-02	22.64	
1997-04-10	19.53		1997-03-24	17.59	
1997-02-13	16.45		1997-01-15	19.80	
1996-12-09	30.12		1996-11-06	42.56	
1996-10-03	39.62		1996-09-12	37.71	
1996-08-02	31.11		1996-07-03	27.66	
1996-06-07	21.90		1996-05-22	20.31	
1996-04-04	17.58		1996-03-14	19.65	
1996-02-23	22.53		1995-12-08	30.74	
1995-11-03	32.14		1995-10-04	30.85	
1995-09-08	28.36		1995-08-03	26.02	
1995-07-06	23.12		1995-05-23	20.00	
1995-04-19	18.17		1995-04-03	13.64	
1995-03-14	13.63		1995-01-31	13.59	
1994-12-30	13.52		1994-12-01	13.93	
1994-11-09	13.82		1994-10-05	13.61	
1994-08-24	13.39		1994-07-19	13.31	
1994-06-02	13.22		1994-04-14	13.18	
1994-03-02	12.24		1994-01-18	13.03	
1994-01-07	13.00		1993-12-07	12.81	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1993-10-22	12.39		1993-09-13	12.10	
1993-08-05	11.88		1993-06-24	11.69	
1993-05-11	11.61		1993-03-24	11.58	
1993-02-16	11.62		1993-01-04	11.52	
1992-11-25	11.35				
Note: A nearby site that taps the same aquifer was being pumped.					
1992-10-19	11.04				
Note: A nearby site that taps the same aquifer was being pumped.					
1992-09-17	10.87				
Note: A nearby site that taps the same aquifer was being pumped.					
1992-07-01	10.44		1992-06-23	10.54	
1992-04-08	10.43		1992-01-02	10.29	
1991-11-15	10.05		1991-11-12	10.05	
1991-10-29	10.38				

**AE138
WNW
1/2 - 1 Mile
Lower**

FED USGS USGS40000140683

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340439117173907		
Monloc name:	001S004W22D007S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0774139
Longitude:	-117.2951472	Sourcemap scale:	24000
Horiz Acc measure:	.01	Horiz Acc measure units:	seconds
Horiz Collection method:	Differentially corrected Global Positioning System (DGPS)		
Horiz coord refsys:	NAD83	Vert measure val:	977.47
Vert measure units:	feet	Vertacc measure val:	.5
Vert accmeasure units:	feet		
Vertcollection method:	Differential Global Positioning System (GPS)r		
Vert coord refsys:	NAVD88	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Mixed (confined and unconfined multiple aquifers)		
Construction date:	19900712	Welldepth:	50.2
Welldepth units:	ft	Wellholedepth:	55
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 146

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-11-17	41.95		2004-11-15	41.92	
2004-11-10	41.78		2004-09-15	39.29	
2004-08-25	37.84		2004-07-15	34.92	
2004-06-15	32.83		2004-05-20	30.93	
2004-03-17	29.39		2004-02-11	29.80	
2004-01-22	30.55		2003-12-16	31.86	
2003-11-14	33.27		2003-10-16	32.64	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2003-09-11	30.73		2003-08-21	28.30	
2003-07-09	23.30		2003-05-30	19.34	
2003-04-24	18.35		2003-04-02	18.61	
2003-03-27	18.84		2003-02-12	21.60	
2003-01-16	22.07		2002-12-11	24.78	
2002-11-20	25.63		2002-11-01	26.83	
2002-09-25	26.72		2002-08-12	26.19	
2002-07-18	26.52		2002-06-12	30.95	
2002-05-30	29.44		2002-05-15	27.11	
2002-04-11	23.04		2002-03-05	16.00	
2002-01-24	18.46		2001-12-20	18.21	
2001-11-21	14.24		2001-10-24	14.73	
2001-09-20	15.42		2001-08-21	14.88	
2001-07-18	12.34		2001-06-12	10.45	
2001-05-17	9.22		2001-04-19	8.23	
2001-03-21	8.34		2001-02-22	10.09	
2001-01-23	10.51		2000-12-19	12.23	
2000-11-22	12.68		2000-10-19	13.69	
2000-09-20	14.08		2000-08-18	13.29	
2000-07-11	12.17		2000-06-28	11.84	
2000-05-22	10.71		2000-03-30	12.34	
2000-03-01	15.27		2000-01-13	21.31	
1999-12-09	20.32		1999-11-03	19.23	
1999-10-04	18.05		1999-09-03	17.26	
1999-08-06	15.32		1999-07-29	14.68	
1999-07-22	14.13		1999-06-25	11.72	
1999-06-09	10.25		1999-05-07	7.65	
1999-04-02	7.03		1999-03-05	7.09	
1999-02-05	8.83		1999-01-08	9.56	
1998-12-10	11.14		1998-11-10	13.06	
1998-10-05	12.29		1998-09-10	11.78	
1998-08-05	10.03		1998-07-01	7.37	
1998-05-29	5.37		1998-04-22	5.12	
1998-03-18	5.68		1998-02-09	7.95	
1998-01-06	11.84		1997-12-05	16.26	
1997-10-30	19.00		1997-10-03	18.65	
1997-09-24	18.67		1997-08-27	18.65	
1997-07-10	17.73		1997-06-04	15.46	
1997-05-02	12.30		1997-04-10	10.62	
1997-03-24	9.27		1997-02-13	9.26	
1997-01-15	12.30		1996-12-09	18.05	
1996-11-06	21.85		1996-10-03	22.37	
1996-09-12	21.61		1996-08-02	18.49	
1996-07-03	16.16		1996-06-07	13.62	
1996-05-22	12.46		1996-04-04	9.12	
1996-03-14	10.14		1995-12-08	18.44	
1995-11-03	20.31		1995-10-04	21.32	
1995-09-08	19.22		1995-08-03	16.19	
1995-07-06	13.97		1995-05-23	11.35	
1995-04-19	9.60		1995-04-03	9.48	
1995-03-14	11.22		1995-01-31	16.33	
1994-12-30	22.41		1994-12-01	23.91	
1994-11-09	23.98		1994-10-05	22.97	
1994-08-24	19.25		1994-07-19	15.30	
1994-06-02	11.49		1994-04-14	9.11	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1994-03-02	13.56		1994-01-18	18.39	
1994-01-07	19.60		1993-12-07	22.91	
1993-10-22	23.42		1993-09-13	21.38	
1993-08-05	17.15		1993-06-24	11.62	
1993-05-11	7.65		1993-03-24	6.71	
1993-02-16	9.79		1993-01-04	17.63	
1992-11-25	22.07				
Note: A nearby site that taps the same aquifer was being pumped.					
1992-10-19	22.13				
Note: A nearby site that taps the same aquifer was being pumped.					
1992-09-17	19.73				
Note: A nearby site that taps the same aquifer was being pumped.					
1992-07-01	13.07		1992-06-23	12.42	
1992-04-08	8.25		1992-01-02	18.79	
1991-11-15	19.48		1991-11-12	19.56	
1991-10-29	18.11				

AH139
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000140392

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340346117164102		
Monloc name:	001S004W27A010S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0627912
Longitude:	-117.2789312	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1017.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19460101	Welldepth:	546
Welldepth units:	ft	Wellholedepth:	595
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

AH140
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000140391

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340346117164101		
Monloc name:	001S004W27A007S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0627912
Longitude:	-117.2789312	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1017.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19120101	Welldepth:	538
Welldepth units:	ft	Wellholedepth:	538
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

AD141
SSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140403

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340347117171201		
Monloc name:	001S004W27C001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0630689
Longitude:	-117.2875426	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	992.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19390101	Welldepth:	88
Welldepth units:	ft	Wellholedepth:	88
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AI142
South
1/2 - 1 Mile
Higher

FED USGS USGS40000140373

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340344117165001		
Monloc name:	001S004W27A022S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0622356
Longitude:	-117.2814312	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1010.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19500101	Welldepth:	100
Welldepth units:	ft	Wellholedepth:	100
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

143
SW
1/2 - 1 Mile
Lower

FED USGS USGS40000140435

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340357117173001		
Monloc name:	001S004W22N002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0658465
Longitude:	-117.2925428	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	981.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	124
Construction date:	19630101	Wellholeddepth:	124
Welldepth units:	ft		
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

AH144
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000140383

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340345117164102		
Monloc name:	001S004W27A011S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0625134
Longitude:	-117.2789312	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1016.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19120101	Welldepth:	409
Welldepth units:	ft	Wellholeddepth:	409
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

AH145
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000140382

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340345117164101		
Monloc name:	001S004W27A001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0625134
Longitude:	-117.2789312	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1016.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	438
Construction date:	19010101	Wellholeddepth:	438
Welldepth units:	ft		
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

AF146
SW
1/2 - 1 Mile
Lower

CA WELLS CADW60000019290

Objectid:	19290
Latitude:	34.0672
Longitude:	-117.294
Site code:	340672N1172940W001
State well numbe:	01S04W22M007S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino
Basin code:	'8-2.06'
Basin desc:	Bunker Hill
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000019290

AJ147
WNW
1/2 - 1 Mile
Lower

FED USGS USGS40000140715

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340446117173801		
Monloc name:	001S004W15N005S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0794571
Longitude:	-117.2947652	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	982.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19510101	Welldepth:	502
Welldepth units:	ft	Wellholeddepth:	538
Wellholeddepth units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 311

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1967-09-30	208.00		1967-09-02	202.00	
1967-08-05	191.00		1967-07-01	183.80	
1967-06-10	178.00		1967-05-06	154.50	
1967-04-22	161.00		1966-10-08	222.00	
1965-06-19	267.00				
Note: The site was being pumped.					
1965-05-29	187.00		1965-04-17	162.00	
1965-04-03	177.00		1965-03-20	177.00	
1965-03-06	182.00		1965-02-20	267.00	
1965-02-06	257.00		1965-01-23	177.00	
1965-01-09	192.00		1964-12-26	212.00	
1964-12-12	257.00		1964-11-28	192.00	
1964-11-14	212.00		1964-10-17	267.00	
1964-10-03	267.00		1964-09-19	262.00	
1964-09-05	262.00		1964-08-15	262.00	
1964-08-01	262.00		1964-07-11	257.00	
1964-06-27	254.00		1964-06-13	252.00	
1964-06-06	252.00		1964-05-16	242.00	
1964-05-02	237.00				
1964-04-18	232.00				
Note: The site was being pumped.					
1964-04-01	142.00				
1964-03-14	220.00				
Note: The site was being pumped.					
1964-03-07	231.00				
Note: The site was being pumped.					
1964-02-15	147.00		1964-02-01	137.00	
1964-01-18	142.00				
1964-01-04	237.00				
Note: The site was being pumped.					
1963-12-14	232.00				
Note: The site was being pumped.					
1963-12-07	147.00				
1963-11-16	247.00				
Note: The site was being pumped.					
1963-11-02	157.00				
1963-10-19	247.00				
Note: The site was being pumped.					
1963-10-05	242.00				
Note: The site was being pumped.					
1963-09-14	167.00				
1963-09-07	256.00				
Note: The site was being pumped.					
1963-08-17	254.00				
Note: The site was being pumped.					
1963-08-03	248.00				
Note: The site was being pumped.					
1963-07-20	237.00				
Note: The site was being pumped.					
1963-07-06	232.00				
Note: The site was being pumped.					
1963-06-15	223.00				
Note: The site was being pumped.					
1963-06-01	216.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1963-05-18	128.00		1963-05-04	127.00	
1963-04-20	90.00		1963-03-30	92.00	
1963-03-16	222.00				
Note: The site was being pumped.					
1963-03-02	122.00		1963-02-16	122.00	
1963-02-02	224.00				
Note: The site was being pumped.					
1963-01-19	222.00				
Note: The site was being pumped.					
1962-12-22	141.00				
1962-12-01	173.00				
Note: The site was being pumped.					
1962-11-17	170.00				
Note: The site was being pumped.					
1962-11-03	168.00				
Note: The site was being pumped.					
1962-10-20	170.00				
Note: The site was being pumped.					
1962-09-29	167.00				
Note: The site was being pumped.					
1962-09-15	166.00				
Note: The site was being pumped.					
1962-09-01	167.00				
Note: The site was being pumped.					
1962-08-18	166.00				
Note: The site was being pumped.					
1962-08-04	166.00				
Note: The site was being pumped.					
1962-07-14	205.00				
Note: The site was being pumped.					
1962-06-02	187.00				
Note: The site was being pumped.					
1962-05-26	127.00				
Note: The site was being pumped.					
1962-05-12	189.00				
Note: The site was being pumped.					
1962-04-28	187.00				
Note: The site was being pumped.					
1962-04-07	87.00		1962-03-31	85.00	
1962-03-10	41.50		1962-02-17	81.50	
1962-01-29	90.00				
1962-01-13	230.00				
Note: The site was being pumped.					
1961-12-30	98.00		1961-12-16	106.00	
1961-12-02	121.00				
1961-11-18	232.00				
Note: The site was being pumped.					
1961-11-04	232.00				
Note: The site was being pumped.					
1961-09-30	212.00				
Note: The site was being pumped.					
1961-09-02	108.00		1961-08-19	115.00	
1961-08-05	124.00				
1961-07-15	222.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1961-07-01	217.00				
Note: The site was being pumped.					
1961-06-17	214.00				
Note: The site was being pumped.					
1961-06-03	212.00				
Note: The site was being pumped.					
1961-05-13	211.00				
Note: The site was being pumped.					
1961-05-06	212.00		1961-04-15	207.00	
1961-04-01	122.00				
1961-03-18	207.00				
Note: The site was being pumped.					
1961-03-04	207.00		1961-02-18	212.00	
1961-02-04	131.00		1961-01-14	212.00	
1961-01-07	212.00		1960-12-17	207.00	
1960-12-03	136.00		1960-11-19	202.00	
1960-11-05	217.00		1960-10-15	67.00	
1960-10-01	217.00		1960-09-17	212.00	
1960-09-03	209.00		1960-08-20	207.00	
1960-07-23	182.00		1960-06-18	80.00	
1960-06-04	189.00				
Note: The site was being pumped.					
1960-05-21	184.00				
Note: The site was being pumped.					
1960-05-07	114.00				
Note: The site was being pumped.					
1960-04-16	168.00				
Note: The site was being pumped.					
1960-04-02	166.00				
Note: The site was being pumped.					
1960-03-19	39.00		1960-03-05	35.00	
1960-02-20	43.00		1960-02-06	57.00	
1960-01-16	71.00		1960-01-02	85.00	
1959-12-19	202.00		1959-12-05	192.00	
1959-11-14	202.00		1959-11-07	202.00	
1959-10-17	112.00		1959-10-03	122.00	
1959-09-19	202.00		1959-09-05	202.00	
1959-08-15	202.00		1959-08-01	202.00	
1959-07-18	202.00		1959-07-04	147.00	
1959-06-20	147.00		1959-06-06	147.00	
1959-05-30	147.00				
Note: The site was being pumped.					
1959-05-23	147.00				
Note: The site was being pumped.					
1959-05-16	147.00				
Note: The site was being pumped.					
1959-05-09	147.00				
Note: The site was being pumped.					
1959-05-02	197.00				
Note: The site was being pumped.					
1959-04-25	192.00				
Note: The site was being pumped.					
1959-04-18	192.00				
Note: The site was being pumped.					
1959-04-11	162.00				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-04-04	162.00				
Note: The site was being pumped.					
1959-03-28	159.00				
Note: The site was being pumped.					
1959-03-21	152.00				
Note: The site was being pumped.					
1959-03-14	64.00		1959-03-07	67.00	
1959-02-28	64.00		1959-02-21	64.00	
1959-02-14	88.00		1959-01-24	87.00	
1959-01-17	88.00		1959-01-10	99.00	
1958-10-04	146.00				
Note: The site was being pumped.					
1958-09-27	143.00				
Note: The site was being pumped.					
1958-09-20	148.00				
Note: The site was being pumped.					
1958-09-13	153.00				
Note: The site was being pumped.					
1958-09-06	161.00				
Note: The site was being pumped.					
1958-08-30	148.00				
Note: The site was being pumped.					
1958-08-23	142.00				
Note: The site was being pumped.					
1958-08-16	143.00				
Note: The site was being pumped.					
1958-08-09	142.00				
Note: The site was being pumped.					
1958-08-02	141.00				
Note: The site was being pumped.					
1958-07-26	138.00				
Note: The site was being pumped.					
1958-07-19	168.00				
Note: The site was being pumped.					
1958-07-12	167.00				
Note: The site was being pumped.					
1958-07-05	181.00				
Note: The site was being pumped.					
1958-06-28	180.00		1958-06-21	177.00	
1958-06-14	171.00				
Note: The site was being pumped.					
1958-06-07	162.00				
Note: The site was being pumped.					
1958-05-31	97.00				
Note: The site was being pumped.					
1958-05-24	92.00				
Note: The site was being pumped.					
1958-05-17	28.00		1958-04-26	8.00	
1958-04-19	8.00		1958-04-12	9.00	
1958-04-05	10.00		1958-03-29	12.00	
1958-03-22	15.00		1958-03-15	17.00	
1958-03-08	21.00		1958-03-01	24.00	
1958-02-22	30.00		1958-02-15	38.00	
1958-02-08	42.00		1958-02-01	52.00	
1958-01-11	65.00		1958-01-04	65.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1957-12-28	74.00		1957-12-21	82.00	
1957-12-14	210.00				
Note: The site was being pumped.					
1957-11-16	76.00		1957-11-09	75.00	
1957-11-02	101.00		1957-10-26	102.00	
1957-10-19	111.00		1957-10-12	122.00	
1957-10-05	222.00				
Note: The site was being pumped.					
1957-09-28	222.00				
Note: The site was being pumped.					
1957-09-21	222.00				
Note: The site was being pumped.					
1957-09-14	214.00				
Note: The site was being pumped.					
1957-09-07	212.00				
Note: The site was being pumped.					
1957-08-24	202.00				
Note: The site was being pumped.					
1957-08-17	198.00				
Note: The site was being pumped.					
1957-08-10	194.00				
Note: The site was being pumped.					
1957-08-03	190.00				
Note: The site was being pumped.					
1957-07-27	190.00				
Note: The site was being pumped.					
1957-07-20	187.00				
Note: The site was being pumped.					
1957-07-13	184.00				
Note: The site was being pumped.					
1957-07-06	176.00				
Note: The site was being pumped.					
1957-06-29	167.00		1957-06-22	132.00	
1957-06-15	182.00		1957-06-08	177.00	
1957-06-01	170.00		1957-05-25	164.00	
1957-05-18	156.00		1957-05-11	112.00	
1957-05-04	107.00		1957-04-27	165.00	
1957-04-20	159.00		1957-04-13	155.00	
1957-04-06	149.00		1957-03-30	17.20	
1957-03-23	19.00		1957-03-16	18.50	
1957-03-09	20.30		1957-03-02	24.50	
1957-02-23	30.00		1957-02-16	35.00	
1957-02-02	74.00		1957-01-26	87.00	
1957-01-19	95.00		1957-01-12	118.00	
1957-01-05	127.00		1956-12-29	189.00	
1956-12-22	190.00		1956-12-17	190.00	
1956-12-08	188.00		1956-12-01	187.00	
1956-11-24	187.00		1956-11-17	186.00	
1956-11-10	140.00		1956-11-03	140.00	
1956-10-27	140.00		1956-10-20	138.00	
1956-10-06	137.00		1956-09-29	137.00	
1956-09-22	140.00		1956-09-15	136.00	
1956-09-08	135.00		1956-09-01	135.00	
1956-08-25	138.00		1956-08-18	137.00	
1956-08-11	134.00		1956-08-04	134.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1956-07-28	131.90		1956-07-21	133.00	
1956-07-14	131.00		1956-07-07	130.00	
1956-06-30	125.00		1956-06-23	123.00	
1956-06-16	120.00		1956-06-09	165.00	
1956-06-02	157.00		1956-05-05	117.00	
1956-04-07	101.00		1956-03-03	16.00	
1956-02-04	57.00		1956-01-07	56.60	
1955-12-03	63.90		1955-11-05	122.00	
1955-10-01	160.00		1955-09-03	158.00	
1955-08-06	116.00				
Note: The site was being pumped.					
1955-07-02	149.00		1955-06-04	117.00	
1955-04-30	121.50		1955-04-02	107.00	
1955-03-05	5.50		1955-01-01	114.00	
1954-12-04	17.50		1954-10-30	139.00	
1954-10-02	133.00				
Note: The site was being pumped.					
1954-09-04	131.00		1954-07-31	92.00	
1954-07-10	92.00		1954-06-26	127.00	
1954-05-29	117.00		1954-04-24	67.00	
1954-03-27	5.00		1954-02-27	6.50	
1954-01-30	13.60		1953-12-26	102.70	
1953-11-28	28.00		1953-10-31	106.00	
1953-09-26	105.00		1953-08-29	104.60	
1953-07-25	105.70				

**AH148
SSE
1/2 - 1 Mile
Higher**

FED USGS USGS40000140366

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340343117164301		
Monloc name:	001S004W27A006S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0619579
Longitude:	-117.2794867	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1015.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	532
Construction date:	19110101	Wellholeddepth:	532
Welldepth units:	ft		
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

AK149
WNW
1/2 - 1 Mile
Lower

CA WELLS CADW60000003251

Objectid:	3251
Latitude:	34.0774
Longitude:	-117.2961
Site code:	340774N1172961W003
State well numbe:	01S04W22D005S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino
Basin code:	'8-2.06'
Basin desc:	Bunker Hill
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000003251

AK150
WNW
1/2 - 1 Mile
Lower

CA WELLS CADW60000003250

Objectid:	3250
Latitude:	34.0774
Longitude:	-117.2961
Site code:	340774N1172961W001
State well numbe:	01S04W22D002S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino
Basin code:	'8-2.06'
Basin desc:	Bunker Hill
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000003250

AK151
WNW
1/2 - 1 Mile
Lower

CA WELLS CADW60000017127

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid: 17127
Latitude: 34.0774
Longitude: -117.2961
Site code: 340774N1172961W002
State well numbe: 01S04W22D004S
Local well name: "
Well use id: 6
Well use descrip: Unknown
County id: 36
County name: San Bernardino
Basin code: '8-2.06'
Basin desc: Bunker Hill
Dwr region id: 80238
Dwr region: Southern Region Office
Site id: CADW60000017127

AK152
WNW
1/2 - 1 Mile
Lower

CA WELLS CADW60000034366

Objectid: 34366
Latitude: 34.0774
Longitude: -117.2961
Site code: 340774N1172961W005
State well numbe: 01S04W22D007S
Local well name: "
Well use id: 6
Well use descrip: Unknown
County id: 36
County name: San Bernardino
Basin code: '8-2.06'
Basin desc: Bunker Hill
Dwr region id: 80238
Dwr region: Southern Region Office
Site id: CADW60000034366

AK153
WNW
1/2 - 1 Mile
Lower

CA WELLS CADW60000017128

Objectid: 17128
Latitude: 34.0774
Longitude: -117.2961
Site code: 340774N1172961W004
State well numbe: 01S04W22D006S
Local well name: "
Well use id: 6
Well use descrip: Unknown
County id: 36
County name: San Bernardino

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000017128

AH154
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000140365

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340343117164101		
Monloc name:	001S004W27A002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0619579
Longitude:	-117.2789312	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1017.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19020101	Welldepth:	440
Welldepth units:	ft	Wellholedepth:	440
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

155
East
1/2 - 1 Mile
Higher

CA WELLS 924

Water System Information:

Prime Station Code:	01S/04W-22G18 S	User ID:	WAT
FRDS Number:	3310031108	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT
Water Type:	Well/Groundwater	Well Status:	Agricultural/Irrigation Well
Source Lat/Long:	340422.9 1171601.2	Precision:	10 Feet (1/10 Second)
Source Name:	THORNE 06 - AGRICULTURAL		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET		
	RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AL156
West
1/2 - 1 Mile
Lower

FED USGS USGS40000140629

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340431117174601		
Monloc name:	001S004W21A001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0752905
Longitude:	-117.2969874	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	970.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19280101	Welldepth:	245
Welldepth units:	ft	Wellholedepth:	292
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 191

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1972-07-24	128.68		1972-06-22	135.79	
1972-05-22	144.77		1972-04-25	144.77	
1972-03-23	112.59		1972-02-23	148.20	
1972-01-26	146.43		1971-12-30	149.94	
1971-11-18	150.24		1971-10-21	147.92	
1971-09-02	168.77		1971-03-10	146.60	
1970-12-11	160.70		1970-10-06	165.20	
1970-08-17	126.00		1970-07-01	137.50	
1970-05-15	118.30		1970-03-23	113.50	
1969-11-21	174.30		1969-11-13	175.30	
1969-09-25	179.40		1969-04-27	176.70	
1969-04-24	170.50		1969-01-09	228.30	
1969-01-06	226.60		1968-12-11	230.00	
1968-05-23	196.90		1968-04-18	175.80	
1968-03-21	177.00		1967-11-30	214.90	
1967-04-27	161.00				
1966-12-13					
Note: The site was dry (no water level recorded).					
1966-09-27					
Note: The site was dry (no water level recorded).					
1966-07-13					
Note: The site was dry (no water level recorded).					
1966-04-13	180.50		1966-02-10	183.00	
1965-08-27					
Note: The site was dry (no water level recorded).					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1965-05-06	180.50		1965-04-07	186.00	
1965-02-12	185.00		1964-11-24	192.00	
1964-08-13	189.50		1964-04-08	144.00	
1964-02-27	158.00		1963-12-13	142.70	
1963-11-29	153.80				
1963-11-22	163.90				
Note: A nearby site that taps the same aquifer was being pumped.					
1963-11-02	154.40		1963-10-11	180.50	
1963-09-13	179.50				
Note: A nearby site that taps the same aquifer was being pumped.					
1963-08-02	171.60				
1963-06-13	144.90				
Note: A nearby site that taps the same aquifer was being pumped.					
1963-03-21	121.00		1963-02-28	153.80	
1963-01-04	155.30		1962-12-04	147.10	
1962-11-02	147.50		1962-10-11	147.40	
1962-06-15	126.20				
Note: The site was being pumped.					
1962-03-16	83.20				
1962-03-13	86.00				
Note: The site was being pumped.					
1961-12-14	131.50				
Note: The site was being pumped.					
1961-09-21	135.00				
Note: The site was being pumped.					
1961-06-15	136.00				
Note: The site was being pumped.					
1961-03-06	129.00				
Note: The site was being pumped.					
1960-12-09	120.50				
Note: The site was being pumped.					
1960-09-28	125.60				
Note: The site was being pumped.					
1960-06-17	83.00		1960-01-07	92.10	
1959-12-13	110.80		1959-09-10	137.60	
1959-06-12	121.00		1959-04-09	94.20	
1958-10-21	129.30		1958-07-23	103.20	
1958-05-16	37.50				
Note: The site was being pumped.					
1958-03-26	15.00		1958-01-28	83.00	
1957-11-06	101.00		1957-10-21	115.00	
1957-09-12	139.80				
1957-09-11	143.80				
Note: The site was being pumped.					
1957-07-18	112.80				
Note: The site was being pumped.					
1957-03-13	25.70		1957-01-24	80.20	
1956-12-21	112.80		1956-10-26	137.80	
1956-09-27	136.00				
Note: The site was being pumped.					
1956-08-15	127.00				
Note: The site was being pumped.					
1956-07-26	117.20		1956-06-12	90.60	
1956-04-19	25.70		1956-03-09	17.20	
1956-01-13	90.70		1955-12-15	74.20	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1955-11-16	123.20		1955-09-23	128.00	
1955-07-22	101.00		1955-06-30	90.20	
1955-05-13	45.70		1955-03-30	13.50	
1954-04-29	11.20		1954-03-18	4.70	
1954-02-05	6.80		1953-12-22	34.00	
1953-11-12	32.40		1953-10-06	34.90	
1953-07-09	23.40		1953-05-22	7.20	
1953-01-27	4.70		1952-05-09	8.10	
1952-03-20	10.40		1952-01-22	5.80	
1951-12-01	19.20		1951-10-01	7.00	
1951-05-11	2.50		1951-03-10	2.50	
1951-01-11	3.00		1950-11-07	13.90	
1950-09-26	13.20		1950-04-25	2.40	
1950-02-22	10.40		1949-12-13	3.50	
1949-04-26	2.10		1949-02-09	8.10	
1948-11-12	1.20		1948-08-25	1.20	
1948-06-29	1.20		1948-04-09	5.40	
1948-01-07	8.10		1947-09-12	1.40	
1947-06-12	1.20		1947-03-26	14.10	
1946-12-13	14.90		1946-10-30	9.00	
1946-05-29	13.30		1946-03-25	12.60	
1946-01-16	19.00		1945-10-19	14.30	
1945-08-13	7.80		1945-06-12	15.50	
1945-04-11	20.10		1945-01-30	17.80	
1944-11-22	19.00		1944-10-04	14.90	
1944-08-10	9.30		1944-06-28	14.90	
1944-05-05	16.60		1944-03-13	20.10	
1944-01-06	19.00		1943-11-11	14.30	
1943-09-20	10.50		1943-08-10	11.80	
1943-06-09	8.20		1943-04-29	16.10	
1943-03-22	17.20		1943-02-11	18.40	
1942-12-23	13.80		1942-10-26	10.90	
1942-08-12	13.20		1942-07-06	12.00	
1942-05-08	13.80		1942-04-06	17.20	
1942-03-04	17.20		1942-01-28	20.10	
1941-12-17	19.00		1941-11-19	20.10	
1941-09-02	14.90		1941-07-18	12.00	
1941-04-22	17.80		1941-03-11	19.50	
1941-01-30	16.10		1940-12-20	16.10	
1940-10-23	13.80		1940-08-29	7.10	
1940-07-29	7.70		1940-07-03	11.50	
1940-06-04	13.80		1940-05-01	15.50	
1940-03-29	16.10		1940-03-01	18.40	
1940-01-31	16.70		1939-11-30	13.20	
1939-10-03	12.60		1939-09-01	8.90	
1939-08-03	13.80		1939-07-10	14.30	
1939-05-31	15.50		1939-05-02	13.80	
1939-03-30	16.70		1939-02-27	18.40	

AH157
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000140362

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340342117164201		
Monloc name:	001S004W27A009S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0616801
Longitude:	-117.2792089	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1017.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19410101	Welldepth:	579
Welldepth units:	ft	Wellholedepth:	600
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

AI158
South
1/2 - 1 Mile
Higher

FED USGS

USGS40000140356

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340341117165001		
Monloc name:	001S004W27A021S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0614023
Longitude:	-117.2814312	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1010.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19520101	Welldepth:	416
Welldepth units:	ft	Wellholedepth:	436
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

159
NE
1/2 - 1 Mile
Higher

FED USGS USGS40000140741

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340454117161301		
Monloc name:	001S004W14P00AS		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0816794
Longitude:	-117.2711532	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1028.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19500101	Welldepth:	120
Welldepth units:	ft	Wellholedepth:	120
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1950-09-14	37.50	

AJ160
WNW
1/2 - 1 Mile
Lower

CA WELLS CADW60000030856

Objectid:	30856
Latitude:	34.0795
Longitude:	-117.2957
Site code:	340795N1172957W001
State well numbe:	01S04W15N005S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino
Basin code:	'8-2.06'
Basin desc:	Bunker Hill
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000030856

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

161
SSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140374

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340344117171601		
Monloc name:	001S004W27C004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0622356
Longitude:	-117.2886537	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	990.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19530101	Welldepth:	108
Welldepth units:	ft	Wellholedepth:	152
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

AM162
SSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140395

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340346117172101		
Monloc name:	001S004W27C006S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0627911
Longitude:	-117.2900427	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	985.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	112
Construction date:	19570101	Wellholeddepth:	130
Welldepth units:	ft		
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

AN163
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000140355

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340341117164101		
Monloc name:	001S004W27A003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0614023
Longitude:	-117.2789311	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1017.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19030101	Welldepth:	438
Welldepth units:	ft	Wellholeddepth:	438
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

AO164
NW
1/2 - 1 Mile
Lower

FED USGS USGS40000140738

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340453117173701		
Monloc name:	001S004W15M002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0814014
Longitude:	-117.2944874	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	985.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	572
Construction date:	19310101	Wellholedepth:	603
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 503

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-03-28	74.20		1970-03-23	75.00	
1969-11-13	96.20		1969-04-24	98.40	
1969-04-19	100.20		1968-12-28	126.20	
1968-04-06	108.20		1967-12-02	112.20	
1967-11-29	118.80		1967-09-30	111.70	
1967-09-09	111.70		1967-06-17	99.20	
1967-05-27	100.70		1967-04-29	97.70	
1967-04-27	97.80		1967-04-08	102.70	
1967-03-11	105.20		1967-02-04	104.70	
1967-01-07	107.20		1966-12-17	96.70	
1966-12-13	113.40		1966-11-19	117.70	
1966-10-22	123.70		1966-04-13	90.70	
1966-02-10	98.20		1965-11-18	118.70	
1965-06-12	149.70				
Note: The site was being pumped.					
1965-05-06	92.00		1965-05-01	92.70	
1965-04-17	90.20		1965-04-07	95.50	
1965-04-03	97.70		1965-03-20	100.70	
1965-03-06	104.70		1965-02-13	149.70	
1965-01-09	100.70		1964-12-19	149.70	
1964-11-28	100.70		1964-11-24	103.10	
1964-11-14	102.70		1964-10-24	159.70	
1964-08-08	73.80		1964-07-11	154.70	
1964-05-16	79.70		1964-05-02	82.70	
1964-04-18	147.70				
Note: The site was being pumped.					
1964-04-01	75.70		1964-03-14	79.70	
1964-03-07	82.70		1964-01-18	89.70	
1964-01-04	84.70				
1963-12-14	144.70				
Note: The site was being pumped.					
1963-12-07	89.70		1963-11-29	78.20	
1963-11-16	99.70		1963-11-02	99.70	
1963-10-19	99.70				
1963-10-11	91.80				
Note: A nearby site that taps the same aquifer was being pumped.					
1963-10-05	144.70				
Note: The site was being pumped.					
1963-09-21	89.70				
1963-09-07	149.70				
Note: The site was being pumped.					
1963-08-24	149.70				
Note: The site was being pumped.					
1963-08-03	149.70				
Note: The site was being pumped.					
1963-07-20	149.70				
Note: The site was being pumped.					
1963-07-06	149.70				
Note: The site was being pumped.					
1963-06-15	147.90				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1963-06-01	144.90				
Note: The site was being pumped.					
1963-05-18	143.90				
Note: The site was being pumped.					
1963-05-04	138.90				
Note: The site was being pumped.					
1963-04-20	64.90		1963-03-30	65.90	
1963-03-21	72.50				
1963-03-16	138.90				
Note: The site was being pumped.					
1963-03-02	133.90				
Note: The site was being pumped.					
1963-02-16	76.90				
1963-02-02	148.90				
Note: The site was being pumped.					
1963-01-19	147.90				
Note: The site was being pumped.					
1962-12-29	143.90				
Note: The site was being pumped.					
1962-12-01	146.90				
Note: The site was being pumped.					
1962-11-17	145.90				
Note: The site was being pumped.					
1962-11-03	144.90				
Note: The site was being pumped.					
1962-10-20	143.90				
Note: The site was being pumped.					
1962-09-29	143.90		1962-09-15	142.90	
1962-09-01	142.90				
1962-08-18	139.90				
Note: The site was being pumped.					
1962-08-04	138.90				
Note: The site was being pumped.					
1962-07-14	134.90				
Note: The site was being pumped.					
1962-06-09	125.90				
Note: The site was being pumped.					
1962-05-26	56.90				
1962-05-12	121.90				
Note: The site was being pumped.					
1962-04-28	38.90		1962-04-07	33.90	
1962-03-31	33.40		1962-03-17	27.40	
1962-03-13	28.00		1962-03-03	30.90	
1962-02-17	46.90		1962-01-27	55.90	
1962-01-13	71.90		1961-12-30	67.90	
1961-12-24	67.50		1961-12-16	71.90	
1961-12-02	73.90				
1961-11-18	144.90				
Note: The site was being pumped.					
1961-11-04	144.90				
Note: The site was being pumped.					
1961-09-30	143.90				
Note: The site was being pumped.					
1961-09-02	135.90				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1961-08-26	137.90				
Note: The site was being pumped.					
1961-08-12	138.90				
Note: The site was being pumped.					
1961-07-29	142.90				
Note: The site was being pumped.					
1961-07-15	143.90				
Note: The site was being pumped.					
1961-07-01	138.90				
Note: The site was being pumped.					
1961-06-17	62.90		1961-06-15	44.40	
1961-06-03	61.90		1961-05-13	60.90	
1961-05-06	58.90		1961-04-15	53.90	
1961-04-01	43.90		1961-03-18	48.90	
1961-03-07	39.20		1961-03-04	43.90	
1961-02-18	48.90		1961-02-04	49.90	
1961-01-14	50.40		1961-01-07	49.99	
1960-12-17	48.90		1960-12-09	36.40	
1960-12-03	45.90		1960-11-19	57.90	
1960-11-05	61.90		1960-10-15	53.90	
1960-10-01	134.90		1960-09-17	133.90	
1960-09-03	53.90		1960-08-13	48.90	
1960-08-06	48.90		1960-07-16	45.90	
1960-07-02	45.90				
1960-06-18	106.90				
Note: The site was being pumped.					
1960-06-04	35.90		1960-05-21	25.90	
1960-05-07	24.90		1960-04-16	30.90	
1960-04-02	29.90				
1960-03-19	83.90				
Note: The site was being pumped.					
1960-03-15	13.50		1960-03-05	14.90	
1960-02-20	17.90		1960-02-06	20.90	
1960-01-16	32.90		1960-01-02	41.90	
1959-12-19	53.90		1959-12-17	38.00	
1959-12-05	53.90				
1959-11-14	133.90				
Note: The site was being pumped.					
1959-11-07	58.90				
1959-10-17	128.90				
Note: The site was being pumped.					
1959-10-03	132.90				
Note: The site was being pumped.					
1959-09-19	145.90				
Note: The site was being pumped.					
1959-09-05	145.90				
Note: The site was being pumped.					
1959-08-15	143.90				
Note: The site was being pumped.					
1959-08-01	143.90				
Note: The site was being pumped.					
1959-07-18	140.90				
Note: The site was being pumped.					
1959-07-04	135.90				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-06-20	133.90				
Note: The site was being pumped.					
1959-06-06	133.90				
Note: The site was being pumped.					
1959-05-30	138.90				
Note: The site was being pumped.					
1959-05-23	133.90				
Note: The site was being pumped.					
1959-05-09	105.90				
1959-05-02	145.90				
Note: The site was being pumped.					
1959-04-25	145.90				
Note: The site was being pumped.					
1959-04-18	145.90				
Note: The site was being pumped.					
1959-04-11	143.90				
Note: The site was being pumped.					
1959-04-04	141.90				
Note: The site was being pumped.					
1959-03-28	140.90				
Note: The site was being pumped.					
1959-03-21	140.90				
Note: The site was being pumped.					
1959-03-14	125.90				
Note: The site was being pumped.					
1959-03-07	126.90				
Note: The site was being pumped.					
1959-02-28	31.90		1959-02-21	31.90	
1959-02-14	44.90				
1959-02-07	140.90				
Note: The site was being pumped.					
1959-01-31	134.90				
Note: The site was being pumped.					
1959-01-24	117.90				
Note: The site was being pumped.					
1959-01-17	42.90				
Note: The site was being pumped.					
1959-01-16	30.80		1959-01-10	40.90	
1959-01-03	138.90				
Note: The site was being pumped.					
1958-12-27	106.90				
Note: The site was being pumped.					
1958-12-20	140.90				
Note: The site was being pumped.					
1958-12-13	140.90				
Note: The site was being pumped.					
1958-12-06	140.90				
Note: The site was being pumped.					
1958-11-29	140.90				
Note: The site was being pumped.					
1958-11-22	130.90				
Note: The site was being pumped.					
1958-11-15	130.90				
Note: The site was being pumped.					
1958-11-08	134.90				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-11-01	140.90				
Note: The site was being pumped.					
1958-10-25	137.90				
Note: The site was being pumped.					
1958-10-04	123.90				
Note: The site was being pumped.					
1958-09-27	120.90				
Note: The site was being pumped.					
1958-09-20	121.90				
Note: The site was being pumped.					
1958-09-13	120.90				
Note: The site was being pumped.					
1958-09-06	120.90				
Note: The site was being pumped.					
1958-08-30	123.90				
Note: The site was being pumped.					
1958-08-23	120.90				
Note: The site was being pumped.					
1958-08-16	122.90				
Note: The site was being pumped.					
1958-08-09	123.90				
Note: The site was being pumped.					
1958-08-02	122.90				
Note: The site was being pumped.					
1958-07-26	121.90				
Note: The site was being pumped.					
1958-07-19	120.90				
Note: The site was being pumped.					
1958-07-12	117.90				
Note: The site was being pumped.					
1958-07-05	114.90				
Note: The site was being pumped.					
1958-06-28	113.90				
1958-06-21	110.90				
Note: The site was being pumped.					
1958-06-14	106.90				
Note: The site was being pumped.					
1958-06-07	103.90				
Note: The site was being pumped.					
1958-05-31	27.90		1958-05-24	25.90	
1958-05-17	15.90		1958-05-16	16.70	
1958-05-10	22.90		1958-05-03	17.90	
1958-04-26	8.90		1958-04-19	8.40	
1958-04-12	8.90		1958-04-05	8.90	
1958-03-29	9.90		1958-03-22	10.90	
1958-03-15	12.90		1958-03-14	12.50	
1958-03-08	13.90		1958-03-01	14.90	
1958-02-22	17.90		1958-02-15	20.90	
1958-02-08	22.90		1958-02-01	28.90	
1958-01-25	119.90				
Note: The site was being pumped.					
1958-01-18	116.90				
Note: The site was being pumped.					
1958-01-11	103.90				
Note: The site was being pumped.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-01-04	98.90				
	Note: The site was being pumped.				
1957-12-28	103.90				
	Note: The site was being pumped.				
1957-12-21	36.90				
1957-12-14	125.90				
	Note: The site was being pumped.				
1957-12-07	118.90				
	Note: The site was being pumped.				
1957-11-23	125.90				
	Note: The site was being pumped.				
1957-11-16	120.90				
	Note: The site was being pumped.				
1957-11-09	47.90				
1957-11-02	123.90				
	Note: The site was being pumped.				
1957-10-26	126.90				
	Note: The site was being pumped.				
1957-10-19	131.90				
	Note: The site was being pumped.				
1957-10-12	135.90				
	Note: The site was being pumped.				
1957-10-05	137.90				
	Note: The site was being pumped.				
1957-09-28	140.90				
	Note: The site was being pumped.				
1957-09-21	140.90				
	Note: The site was being pumped.				
1957-09-14	139.90				
	Note: The site was being pumped.				
1957-09-07	137.90				
	Note: The site was being pumped.				
1957-08-24	134.90				
	Note: The site was being pumped.				
1957-08-17	132.90				
	Note: The site was being pumped.				
1957-08-10	128.90				
	Note: The site was being pumped.				
1957-08-03	126.90				
	Note: The site was being pumped.				
1957-07-27	128.40				
	Note: The site was being pumped.				
1957-07-20	127.90				
	Note: The site was being pumped.				
1957-07-13	123.90				
	Note: The site was being pumped.				
1957-07-06	44.90		1957-06-29	45.90	
1957-06-22	119.90		1957-06-15	118.90	
1957-06-08	127.90		1957-06-01	125.90	
1957-05-25	30.90		1957-05-18	102.90	
1957-05-11	99.90		1957-05-04	100.90	
1957-04-27	82.90		1957-04-20	103.90	
1957-04-13	100.90		1957-04-06	94.90	
1957-03-30	9.40		1957-03-23	9.90	
1957-03-16	9.90		1957-03-14	10.30	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1957-03-09	10.60		1957-03-02	11.90	
1957-02-23	13.90		1957-02-16	14.90	
1957-02-09	16.50		1957-02-02	18.00	
1957-01-26	21.00		1957-01-19	27.90	
1957-01-12	35.90		1957-01-05	35.90	
1956-12-29	124.90		1956-12-22	129.90	
1956-12-15	128.90		1956-12-08	128.90	
1956-12-01	126.90		1956-11-24	127.90	
1956-11-17	126.90		1956-11-10	123.90	
1956-11-03	123.90		1956-10-27	123.90	
1956-10-20	123.90		1956-10-06	122.90	
1956-09-29	123.90		1956-09-22	123.00	
1956-09-15	122.90		1956-09-08	120.90	
1956-09-01	119.90		1956-08-25	117.90	
1956-08-18	116.90		1956-08-11	115.90	
1956-08-04	115.50		1956-07-28	114.90	
1956-07-21	115.50		1956-07-14	113.60	
1956-07-07	112.30		1956-06-30	110.20	
1956-06-23	108.60		1956-06-16	106.90	
1956-06-09	112.50		1956-06-02	108.90	
1956-05-05	39.60		1956-04-19	17.90	
1956-04-07	96.30		1956-03-06	9.90	
1956-03-03	11.00		1956-02-04	21.60	
1956-01-07	93.30		1955-12-03	35.30	
1955-11-16	37.10		1955-11-05	115.50	
1955-10-01	118.30		1955-09-03	117.60	
1955-08-06	108.90				
Note: The site was being pumped.					
1955-07-02	111.60				
Note: The site was being pumped.					
1955-06-04	96.10				
Note: The site was being pumped.					
1955-04-30	93.20				
Note: The site was being pumped.					
1955-04-02	18.10		1955-03-30	17.40	
1955-03-05	6.30		1955-01-31	6.20	
1955-01-01	18.30		1954-12-17	10.30	
1954-12-04	13.90		1954-10-30	128.90	
1954-10-02	126.90		1954-09-04	126.40	
1954-07-31	126.90		1954-07-03	126.90	
1954-06-26	126.70		1954-05-29	23.20	
1954-04-29	12.80		1954-04-24	11.60	
1954-03-27	4.90		1954-03-18	7.80	
1954-02-27	5.80		1954-02-04	8.60	
1954-01-30	8.90		1953-12-26	127.80	
1953-11-28	17.00				
Note: The site was being pumped.					
1953-10-31	126.80		1953-09-26	127.80	
1953-08-29	131.80		1953-07-25	130.80	
1953-04-10	9.70		1953-01-27	4.90	
1952-07-07	15.00		1952-05-09	5.30	
1952-03-20	3.20		1952-01-22	4.10	
1951-10-01	38.40				
Note: The site was being pumped.					
1951-05-11	8.10		1951-03-10	5.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1951-01-11	6.70				
1950-09-29	86.63				
Note: The site was being pumped.					
1950-04-25	6.20		1950-02-22	2.10	
1949-12-13	4.40		1949-10-28	6.70	
1949-04-26	5.10		1949-02-09	1.90	
1948-04-08	3.70		1947-12-20	1.90	
1947-09-15	6.40		1947-06-12	5.20	
1947-03-26	3.60		1946-12-13	1.60	
1946-08-29	5.80		1946-05-29	3.60	
1946-01-17	1.40		1945-10-19	3.80	
1945-08-13	6.00		1945-06-12	3.20	
1945-04-11	0.70		1945-01-30	1.80	
1944-11-22	1.00		1944-10-04	3.90	
1944-08-10	4.70		1944-06-28	3.50	
1944-05-05	2.00		1944-01-06	0.60	
1943-11-11	3.30		1943-09-20	5.20	
1943-08-10	4.20		1943-04-29	1.00	
1943-03-15	0.20		1943-02-11	0.80	
1942-12-23	2.90		1942-10-26	3.80	
1942-08-12	4.30		1942-07-06	4.00	
1942-05-08	3.00		1942-04-06	2.50	
1942-03-04	2.30		1942-01-28	0.40	
1941-12-17	0.90		1941-11-19	0.70	
1941-09-02	3.50		1941-07-18	3.60	
1941-04-22	0.90		1941-03-11	0.60	
1941-01-30	1.00		1940-12-20	1.40	
1940-10-21	4.60		1940-08-29	6.70	
1940-07-29	6.30		1940-07-03	5.80	
1940-06-10	3.80		1940-05-03	3.60	
1940-03-29	2.40		1940-03-01	0.60	
1940-01-31	0.70		1940-01-04	2.20	
1939-11-30	3.40		1939-10-03	4.00	
1939-09-01	5.40		1939-08-03	4.70	
1939-07-10	4.30		1939-06-01	3.70	
1939-05-02	3.70		1939-03-30	2.30	
1939-02-21	1.60		1939-02-01	1.60	
1939-01-03	1.90		1938-12-30	2.10	
1938-12-06	3.60		1938-11-07	3.00	
1938-10-28	2.80		1938-09-30	3.30	
1938-09-01	3.40		1938-07-29	3.20	
1938-06-04	2.70		1938-05-03	7.70	
1938-03-31	0.80		1938-01-28	4.10	
1937-12-31	3.70		1937-11-29	7.60	
1937-06-04	6.00		1937-05-06	5.20	
1937-04-06	2.50		1937-03-10	3.00	
1937-02-05	3.90		1937-01-07	4.10	
1936-12-10	7.10		1936-11-05	6.70	
1936-10-05	3.60		1936-09-30	6.10	
1936-09-01	4.50		1936-08-04	4.90	
1936-08-03	5.10		1936-07-17	5.00	
1936-07-11	4.60		1936-06-17	5.00	
1936-06-06	2.60		1936-06-01	2.50	
1936-02-07	4.10		1936-01-07	5.00	
1935-12-06	7.10		1935-11-15	10.10	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1935-06-06	7.60		1935-05-10	6.30	
1935-04-11	2.70		1935-03-19	2.30	
1935-02-13	2.40		1935-01-18	3.10	
1934-11-07	7.30		1934-06-25	7.50	
1934-06-18	7.50		1934-06-11	8.00	
1934-06-04	8.80		1934-05-11	6.60	
1934-04-10	5.70		1934-03-07	1.40	
1934-02-09	2.60		1934-01-05	1.50	
1933-11-09	6.70		1933-10-06	7.50	
1933-08-31	8.90		1933-08-12	8.50	
1933-07-08	7.20		1933-06-14	6.60	

**AP165
ESE
1/2 - 1 Mile
Higher**

CA WELLS 936

Water System Information:

Prime Station Code:	01S/04W-23K01 S	User ID:	WAT
FRDS Number:	3310031029	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340413.7 1171600.3	Precision:	10 Feet (1/10 Second)
Source Name:	GAGE WELL 27-2		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		
Sample Collected:	12-AUG-11	Findings:	35. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-AUG-11	Findings:	7. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	28-SEP-11	Findings:	10.2 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	28-SEP-11	Findings:	2.94 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	28-SEP-11	Findings:	13. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	28-SEP-11	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-SEP-11	Findings:	6.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	02-NOV-11	Findings:	9.21 PCI/L
Chemical:	GROSS ALPHA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02-NOV-11	Findings:	2.85 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02-NOV-11	Findings:	12. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	02-NOV-11	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-NOV-11	Findings:	6.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	16-FEB-12	Findings:	5.86 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	16-FEB-12	Findings:	1.92 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	16-FEB-12	Findings:	10. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	16-FEB-12	Findings:	37. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-FEB-12	Findings:	6.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	08-MAR-12	Findings:	8.94 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	08-MAR-12	Findings:	1.98 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08-MAR-12	Findings:	10. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	08-MAR-12	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-MAR-12	Findings:	6.3 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	11-MAY-12	Findings:	8.89 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11-MAY-12	Findings:	2.29 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11-MAY-12	Findings:	8.2 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	11-MAY-12	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-MAY-12	Findings:	7.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-DEC-12	Findings:	7.49 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06-DEC-12	Findings:	2.16 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-DEC-12	Findings:	4. UG/L
Chemical:	CHROMIUM, HEXAVALENT		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06-DEC-12	Findings:	9.2 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	06-DEC-12	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-DEC-12	Findings:	7.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	20-JUN-13	Findings:	4.68 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	20-JUN-13	Findings:	1.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	20-JUN-13	Findings:	870. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	20-JUN-13	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	20-JUN-13	Findings:	250. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	20-JUN-13	Findings:	310. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	20-JUN-13	Findings:	320. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	20-JUN-13	Findings:	90. MG/L
Chemical:	CALCIUM		
Sample Collected:	20-JUN-13	Findings:	23. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	20-JUN-13	Findings:	69. MG/L
Chemical:	SODIUM		
Sample Collected:	20-JUN-13	Findings:	3.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	20-JUN-13	Findings:	40. MG/L
Chemical:	CHLORIDE		
Sample Collected:	20-JUN-13	Findings:	95. MG/L
Chemical:	SULFATE		
Sample Collected:	20-JUN-13	Findings:	0.64 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	20-JUN-13	Findings:	4.4 UG/L
Chemical:	VANADIUM		
Sample Collected:	20-JUN-13	Findings:	6.9 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	20-JUN-13	Findings:	550. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	20-JUN-13	Findings:	1.3
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	20-JUN-13	Findings:	37. MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	20-JUN-13	Findings:	7600. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	20-JUN-13	Findings:	0.12 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	20-JUN-13	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	20-JUN-13	Findings:	8400. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	20-JUN-13	Findings:	7.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	28-FEB-14	Findings:	5.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	28-FEB-14	Findings:	0.31 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	28-FEB-14	Findings:	8.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	28-FEB-14	Findings:	37. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-FEB-14	Findings:	1.6 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	28-FEB-14	Findings:	6.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	28-FEB-14	Findings:	0.35 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	23-MAY-14	Findings:	4.1 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	23-MAY-14	Findings:	0.27 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	23-MAY-14	Findings:	6.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	23-MAY-14	Findings:	37. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-MAY-14	Findings:	7.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	23-MAY-14	Findings:	0.35 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	11-JUL-14	Findings:	5.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11-JUL-14	Findings:	0.33 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11-JUL-14	Findings:	8. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	11-JUL-14	Findings:	35. MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11-JUL-14	Findings:	7.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	11-JUL-14	Findings:	0.3 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-AUG-14	Findings:	4.4 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	15-AUG-14	Findings:	0.29 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	15-AUG-14	Findings:	8.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	15-AUG-14	Findings:	35. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-AUG-14	Findings:	7.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	15-AUG-14	Findings:	0.33 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	18-SEP-14	Findings:	4.5 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	18-SEP-14	Findings:	0.29 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	18-SEP-14	Findings:	9.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	18-SEP-14	Findings:	0.52 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	18-SEP-14	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-SEP-14	Findings:	7.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	18-SEP-14	Findings:	0.32 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	29-JAN-15	Findings:	11. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	29-JAN-15	Findings:	0.29 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	29-JAN-15	Findings:	8.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	29-JAN-15	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	29-JAN-15	Findings:	8. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	29-JAN-15	Findings:	1.2 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-MAR-15	Findings:	6.5 PCI/L
Chemical:	GROSS ALPHA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	13-MAR-15	Findings:	0.25 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	13-MAR-15	Findings:	8.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	13-MAR-15	Findings:	37. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-MAR-15	Findings:	8.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	13-MAR-15	Findings:	1.4 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	02-APR-15	Findings:	12. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	02-APR-15	Findings:	0.28 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02-APR-15	Findings:	9.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	02-APR-15	Findings:	36. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-APR-15	Findings:	7.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	02-APR-15	Findings:	1.8 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	29-MAY-15	Findings:	11. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	29-MAY-15	Findings:	0.29 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	29-MAY-15	Findings:	11. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	29-MAY-15	Findings:	37. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	29-MAY-15	Findings:	8. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	29-MAY-15	Findings:	1.3 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	23-JUN-15	Findings:	15. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	23-JUN-15	Findings:	0.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	23-JUN-15	Findings:	11. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	23-JUN-15	Findings:	36. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-JUN-15	Findings:	7.3 UG/L
Chemical:	PERCHLORATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	23-JUN-15	Findings:	1.8 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-JUL-15	Findings:	12. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	15-JUL-15	Findings:	0.29 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	15-JUL-15	Findings:	9.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	15-JUL-15	Findings:	35. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-JUL-15	Findings:	7.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	15-JUL-15	Findings:	1.3 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-AUG-15	Findings:	11. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06-AUG-15	Findings:	0.29 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-AUG-15	Findings:	10. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	06-AUG-15	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-AUG-15	Findings:	7.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-AUG-15	Findings:	1.4 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	17-SEP-15	Findings:	13. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	17-SEP-15	Findings:	0.28 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	17-SEP-15	Findings:	10. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-SEP-15	Findings:	36. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-SEP-15	Findings:	7.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	17-SEP-15	Findings:	1.8 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	20-OCT-15	Findings:	12. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	20-OCT-15	Findings:	0.29 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	20-OCT-15	Findings:	11. PCI/L
Chemical:	URANIUM (PCI/L)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	20-OCT-15	Findings:	32. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-OCT-15	Findings:	7.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	20-OCT-15	Findings:	1.7 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	17-MAR-11	Findings:	9.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	17-MAR-11	Findings:	9.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-MAR-11	Findings:	38. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-MAR-11	Findings:	8. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-MAY-11	Findings:	11. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06-MAY-11	Findings:	4.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-MAY-11	Findings:	9.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	06-MAY-11	Findings:	38. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAY-11	Findings:	7.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-MAY-11	Findings:	4. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	08-JUN-11	Findings:	8.41 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	08-JUN-11	Findings:	1.95 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08-JUN-11	Findings:	5.63 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	08-JUN-11	Findings:	1.21 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	08-JUN-11	Findings:	9.8 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	08-JUN-11	Findings:	36. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-JUN-11	Findings:	7.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-JUL-11	Findings:	3.62 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	14-JUL-11	Findings:	1.76 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	14-JUL-11	Findings:	3.2 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	14-JUL-11	Findings:	57. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUL-11	Findings:	12. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	12-AUG-11	Findings:	8.66 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12-AUG-11	Findings:	1.65 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-AUG-11	Findings:	13. PCI/L
Chemical:	URANIUM (PCI/L)		

AM166
SSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140396

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340346117172301		
Monloc name:	001S004W27C005S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0627911
Longitude:	-117.2905982	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	984.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19560101	Welldepth:	197
Welldepth units:	ft	Wellholedepth:	197
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

AP167
ESE
1/2 - 1 Mile
Higher

FED USGS USGS40000140544

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340416117155901		
Monloc name:	001S004W23G003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0711243
Longitude:	-117.2672641	Sourcemap scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	808
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AQ168
SSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140345

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340340117170701		
Monloc name:	001S004W27B002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0611245
Longitude:	-117.2861536	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	998.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19130101	Welldepth:	555
Welldepth units:	ft	Wellholedepth:	555
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

AR169
SW
1/2 - 1 Mile
Lower

FED USGS USGS40000140426

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340353117173401		
Monloc name:	001S004W22N001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0647354
Longitude:	-117.2936539	Sourcemap scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure: 1	Horiz Acc measure units: seconds
Horiz Collection method: Interpolated from map	
Horiz coord refsys: NAD83	Vert measure val: 979.00
Vert measure units: feet	Vertacc measure val: 10
Vert accmeasure units: feet	
Vertcollection method: Interpolated from topographic map	
Vert coord refsys: NGVD29	Countrycode: US
Aquifername: California Coastal Basin aquifers	
Formation type: Not Reported	
Aquifer type: Not Reported	
Construction date: 19560101	Welldepth: 147
Welldepth units: ft	Wellholedepth: 200
Wellholedepth units: ft	

Ground-water levels, Number of Measurements: 53

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-03-23	34.70		1967-07-26	10.80	
1967-06-01	8.70				
1965-08-24	84.00				
Note: The site was being pumped.					
1965-07-19	84.30				
1965-05-28	87.30				
Note: The site was being pumped.					
1965-05-02	80.20				
Note: The site was being pumped.					
1965-03-22	82.10				
Note: The site was being pumped.					
1963-12-13	70.80		1963-11-22	72.50	
1963-10-25	73.60		1963-10-04	75.30	
1963-09-13	76.30		1963-08-29	76.20	
1963-07-18	76.20		1963-06-13	76.30	
1963-05-04	77.10		1963-02-28	79.40	
1963-01-04	79.50		1962-12-04	78.80	
1962-11-02	78.10		1962-10-06	77.50	
1961-12-18	85.60		1961-11-28	85.60	
1961-09-29	85.60		1961-08-10	85.40	
1961-07-24	85.20		1961-06-16	83.70	
1961-05-24	82.20		1961-04-14	81.40	
1961-02-17					
Note: An obstruction was encountered in the well above the water surface (no water level recorded).					
1961-01-27					
Note: An obstruction was encountered in the well above the water surface (no water level recorded).					
1961-01-05	81.40		1960-11-28	78.60	
1960-10-07	78.10				
1960-07-01	84.10				
Note: The site was being pumped.					
1960-03-22	75.60		1960-02-23	79.60	
1959-12-02	82.30		1959-09-15	72.90	
1959-08-05	73.90		1959-07-15	71.90	
1959-06-11	68.90		1959-05-13	68.30	
1959-04-16	67.10		1959-03-13	64.80	
1959-01-28	65.60		1958-12-19	61.30	
1958-11-14	59.70		1958-10-08	62.20	
1958-09-08	61.30		1958-07-12	57.90	
1956-03-02	57.00				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AS170
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140468

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340405117174401		
Monloc name:	001S004W21J005S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0680686
Longitude:	-117.2964318	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	969.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19630101	Welldepth:	125
Welldepth units:	ft	Wellholedepth:	125
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 49

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-03-30	13.20		1969-11-21	11.40	
1969-04-27	9.50		1969-01-02	42.10	
1968-05-23	33.40		1967-11-30	37.20	
1967-09-16	36.20		1967-08-05	34.30	
1967-07-08	30.60		1967-06-10	27.70	
1967-05-13	23.20		1967-04-15	23.30	
1967-03-18	22.70		1967-02-11	22.00	
1967-01-07	23.30		1966-12-10	29.90	
1966-11-12	39.90		1966-10-08	39.90	
1966-09-10	38.40		1966-08-06	38.00	
1966-07-16	34.70		1966-06-04	29.50	
1966-05-07	25.90		1966-04-16	25.10	
1966-03-05	21.00		1966-02-12	20.70	
1966-01-08	21.30		1965-12-11	27.00	
1965-11-06	43.80		1965-10-09	43.80	
1965-09-04	43.60		1965-08-07	43.40	
1965-07-10	42.80		1965-06-19	42.20	
1965-05-08	40.70		1965-04-17	42.40	
1965-03-20	43.90		1965-02-12	43.50	
1965-01-09	43.00		1964-01-07	41.93	
1963-12-13	39.90		1963-11-08	40.70	
1963-10-25	40.70		1963-10-04	41.20	
1963-09-13	43.30		1963-08-29	43.60	
1963-07-18	43.40		1963-07-06	43.60	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1963-06-13	43.60				

AL171
West
1/2 - 1 Mile
Lower

CA WELLS CADW60000017113

Objectid: 17113
 Latitude: 34.0753
 Longitude: -117.2979
 Site code: 340753N1172979W001
 State well numbe: 01S04W21A001S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000017113

AT172
NNE
1/2 - 1 Mile
Higher

CA WELLS CADW60000032711

Objectid: 32711
 Latitude: 34.085
 Longitude: -117.2746
 Site code: 340850N1172746W001
 State well numbe: 01S04W14L001S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000032711

AU173
NNE
1/2 - 1 Mile
Higher

FED USGS USGS40000140802

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340508117163302
 Monloc name: 001S004W14E009S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: Not Reported
 Drainagearea Units: Not Reported
 Contrib drainagearea units: Not Reported
 Longitude: -117.2758333
 Horiz Acc measure: 1
 Horiz Collection method: Global positioning system (GPS), uncorrected
 Horiz coord refsys: NAD83
 Vert measure units: feet
 Vert accmeasure units: feet
 Vertcollection method: Interpolated from topographic map
 Vert coord refsys: NGVD29
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Not Reported
 Construction date: 20030303
 Welldepth units: ft
 Wellholedepth units: ft

Drainagearea value: Not Reported
 Contrib drainagearea: Not Reported
 Latitude: 34.0855556
 Sourcemap scale: 24000
 Horiz Acc measure units: seconds
 Vert measure val: 1020
 Vertacc measure val: 10
 Countrycode: US
 Welldepth: 810
 Wellholedepth: 818

Ground-water levels, Number of Measurements: 18

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-01-27	101.52		2005-01-06	113.29	
2004-11-22	115.01		2004-10-23	113.77	
2004-09-15	142.97		2004-08-11	149.23	
2004-07-16	148.70		2004-06-16	139.81	
2004-05-12	135.33		2004-04-22	98.50	
2004-04-08	107.27		2004-03-23	121.06	
2004-03-03	83.01		2004-02-20	103.61	
2004-02-05	101.16		2004-01-22	100.99	
2003-12-16	106.33		2003-11-18	107.39	

**AU174
NNE
1/2 - 1 Mile
Higher**

FED USGS USGS40000140801

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340508117163301
 Monloc name: 001S004W14E008S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: Not Reported
 Drainagearea Units: Not Reported
 Contrib drainagearea units: Not Reported
 Longitude: -117.2758333
 Horiz Acc measure: 1
 Horiz Collection method: Global positioning system (GPS), uncorrected
 Horiz coord refsys: NAD83
 Vert measure units: feet
 Vert accmeasure units: feet
 Vertcollection method: Interpolated from topographic map
 Vert coord refsys: NGVD29
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported

Drainagearea value: Not Reported
 Contrib drainagearea: Not Reported
 Latitude: 34.0855556
 Sourcemap scale: 24000
 Horiz Acc measure units: seconds
 Vert measure val: 1020
 Vertacc measure val: 10
 Countrycode: US

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported
 Construction date: 20030210 Welldepth: 1165
 Welldepth units: ft Wellholedepth: 1506
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 18

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-01-27	108.24		2005-01-06	115.78	
2004-11-22	130.53		2004-10-23	123.58	
2004-09-15	168.26		2004-08-11	167.06	
2004-07-16	166.62		2004-06-16	156.94	
2004-05-12	152.74		2004-04-22	116.81	
2004-04-08	124.58		2004-03-23	127.06	
2004-03-03	94.30		2004-02-20	114.59	
2004-02-05	110.04		2004-01-22	111.59	
2003-12-16	120.75		2003-11-18	127.08	

AU175
NNE
1/2 - 1 Mile
Higher

FED USGS USGS40000140803

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340508117163303
 Monloc name: 001S004W14E010S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: Not Reported Drainagearea value: Not Reported
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported
 Contrib drainagearea units: Not Reported Latitude: 34.0855556
 Longitude: -117.2758333 Sourcemap scale: 24000
 Horiz Acc measure: 1 Horiz Acc measure units: seconds
 Horiz Collection method: Global positioning system (GPS), uncorrected
 Horiz coord refsys: NAD83 Vert measure val: 1020
 Vert measure units: feet Vertacc measure val: 10
 Vert accmeasure units: feet
 Vertcollection method: Interpolated from topographic map
 Vert coord refsys: NGVD29 Countrycode: US
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Not Reported
 Construction date: 20030303 Welldepth: 480
 Welldepth units: ft Wellholedepth: 818
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 18

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-01-27	89.93		2005-01-06	96.56	
2004-11-22	99.42		2004-10-23	98.68	
2004-09-15	115.53		2004-08-11	117.60	
2004-07-16	116.95		2004-06-16	110.13	
2004-05-12	106.52		2004-04-22	84.99	
2004-04-08	87.92		2004-03-23	95.99	
2004-03-03	74.56		2004-02-20	87.99	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-02-05	86.78		2004-01-22	85.40	
2003-12-16	89.93		2003-11-18	89.43	

AU176
NNE
1/2 - 1 Mile
Higher

FED USGS

USGS40000140806

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340508117163306		
Monloc name:	001S004W14E013S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported		
Drainagearea Units:	Not Reported	Drainagearea value:	Not Reported
Contrib drainagearea units:	Not Reported	Contrib drainagearea:	Not Reported
Longitude:	-117.2758333	Latitude:	34.0855556
Horiz Acc measure:	1	Sourcemap scale:	24000
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Horiz Acc measure units:	seconds
Vert measure units:	feet	Vert measure val:	1020
Vert accmeasure units:	feet	Vertacc measure val:	10
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20030303	Welldepth:	55
Welldepth units:	ft	Wellholedepth:	818
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 18

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-01-27	46.25		2005-01-06	46.26	
2004-11-22	46.23		2004-10-23	46.22	
2004-09-15	46.20		2004-08-11	46.17	
2004-07-16	46.15		2004-06-16	46.15	
2004-05-12	46.13		2004-04-22	46.27	
2004-04-08	46.25		2004-03-23	46.22	
2004-03-03	46.24		2004-02-20	46.19	
2004-02-05	46.13		2004-01-22	46.20	
2003-12-16	46.19				
2003-11-18					

Note: The site was dry (no water level recorded).

AU177
NNE
1/2 - 1 Mile
Higher

FED USGS

USGS40000140805

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340508117163305		
Monloc name:	001S004W14E012S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0855556
Longitude:	-117.2758333	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	1020
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20030303	Welldepth:	100
Welldepth units:	ft	Wellholedepth:	818
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 19

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-01-27	80.77		2005-01-06	81.54	
2004-12-09	81.67		2004-11-22	81.44	
2004-10-23	80.87		2004-09-15	78.85	
2004-08-11	76.42		2004-07-16	74.62	
2004-06-16	72.70		2004-05-12	70.87	
2004-04-22	69.64		2004-04-08	69.51	
2004-03-23	69.34		2004-03-03	68.86	
2004-02-20	69.39		2004-02-05	69.78	
2004-01-22	69.97		2003-12-16	70.38	
2003-11-18	70.28				

AU178
NNE
1/2 - 1 Mile
Higher

FED USGS USGS40000140804

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340508117163304		
Monloc name:	001S004W14E011S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0855556
Longitude:	-117.2758333	Sourcemap scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	1020
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20030303	Welldepth:	250
Welldepth units:	ft	Wellholedepth:	818
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 18

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-01-27	81.69		2005-01-06	83.41	
2004-11-22	84.95		2004-10-23	84.95	
2004-09-15	86.36		2004-08-11	84.32	
2004-07-16	82.59		2004-06-16	79.52	
2004-05-12	76.33		2004-04-22	72.83	
2004-04-08	72.46		2004-03-23	73.42	
2004-03-03	69.93		2004-02-20	72.14	
2004-02-05	72.47		2004-01-22	72.63	
2003-12-16	73.79		2003-11-18	73.96	

AR179
SW
1/2 - 1 Mile
Lower

FED USGS USGS40000140427

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340353117173501		
Monloc name:	001S004W22N003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0647354
Longitude:	-117.2939317	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	976.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19630101	Welldepth:	125
Welldepth units:	ft	Wellholedepth:	125
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AV180
West
1/2 - 1 Mile
Lower

FED USGS USGS40000140566

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340421117175001		
Monloc name:	001S004W21H008S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0725129
Longitude:	-117.2980986	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	970.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19550101	Welldepth:	136
Welldepth units:	ft	Wellholedepth:	200
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
-----			-----		
1955-08-23	90.00		1952-10-06	24.00	

AS181
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140486

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340407117174601		
Monloc name:	001S004W21J003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0686241
Longitude:	-117.2969874	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	961.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	213
Construction date:	19530101	Wellholedepth:	213
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1955-08	22.00		1953-02-10	4.00	

AU182
NNE
1/2 - 1 Mile
Higher

CA WELLS CADW60000001614

Objectid:	1614
Latitude:	34.0856
Longitude:	-117.2758
Site code:	340856N1172758W004
State well numbe:	01S04W14E011S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino
Basin code:	'8-2.06'
Basin desc:	Bunker Hill
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000001614

AU183
NNE
1/2 - 1 Mile
Higher

CA WELLS CADW60000001471

Objectid:	1471
Latitude:	34.0856
Longitude:	-117.2758
Site code:	340856N1172758W002
State well numbe:	01S04W14E009S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino
Basin code:	'8-2.06'
Basin desc:	Bunker Hill
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000001471

AU184
NNE
1/2 - 1 Mile
Higher

CA WELLS CADW60000001470

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid: 1470
 Latitude: 34.0856
 Longitude: -117.2758
 Site code: 340856N1172758W001
 State well numbe: 01S04W14E008S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000001470

AU185
NNE
1/2 - 1 Mile
Higher

CA WELLS CADW60000015632

Objectid: 15632
 Latitude: 34.0856
 Longitude: -117.2758
 Site code: 340856N1172758W005
 State well numbe: 01S04W14E012S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000015632

AU186
NNE
1/2 - 1 Mile
Higher

CA WELLS CADW60000015631

Objectid: 15631
 Latitude: 34.0856
 Longitude: -117.2758
 Site code: 340856N1172758W003
 State well numbe: 01S04W14E010S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000015631

AU187
NNE
1/2 - 1 Mile
Higher

CA WELLS CADW6000001615

Objectid: 1615
 Latitude: 34.0856
 Longitude: -117.2758
 Site code: 340856N1172758W006
 State well numbe: 01S04W14E013S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW6000001615

AN188
SSE
1/2 - 1 Mile
Higher

CA WELLS 954

Water System Information:

Prime Station Code: 01S/04W-27A09 S	User ID: WAT
FRDS Number: 3310031052	County: Riverside
District Number: 14	Station Type: WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type: Well/Groundwater	Well Status: Active Raw
Source Lat/Long: 340339.0 1171640.9	Precision: 10 Feet (1/10 Second)
Source Name: HUNT WELL 10	
System Number: 3310031	
System Name: Riverside, City of	
Organization That Operates System: 3900 MAIN STREET RIVERSIDE, CA 92522	
Pop Served: 245000	Connections: 58586
Area Served: RIVERSIDE	
Sample Collected: 29-OCT-15	Findings: 4.7 MG/L
Chemical: NITRATE (AS N)	
Sample Collected: 29-OCT-15	Findings: 21. MG/L
Chemical: NITRATE (AS NO3)	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	29-OCT-15	Findings:	4.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-APR-16	Findings:	6. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	14-APR-16	Findings:	4.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	12-MAY-16	Findings:	6. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-MAY-16	Findings:	5.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	30-JAN-13	Findings:	147. PCI/L
Chemical:	TRITIUM COUNTING ERROR		
Sample Collected:	30-JAN-13	Findings:	0.217 PCI/L
Chemical:	STRONTIUM-90 COUNTING ERROR		
Sample Collected:	30-JAN-14	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	30-JAN-14	Findings:	420. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	30-JAN-14	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	30-JAN-14	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	30-JAN-14	Findings:	150. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	30-JAN-14	Findings:	82. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	30-JAN-14	Findings:	26. MG/L
Chemical:	CALCIUM		
Sample Collected:	30-JAN-14	Findings:	4.1 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	30-JAN-14	Findings:	56. MG/L
Chemical:	SODIUM		
Sample Collected:	30-JAN-14	Findings:	1.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	30-JAN-14	Findings:	26. MG/L
Chemical:	CHLORIDE		
Sample Collected:	30-JAN-14	Findings:	34. MG/L
Chemical:	SULFATE		
Sample Collected:	30-JAN-14	Findings:	1.3 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	30-JAN-14	Findings:	4.9 UG/L
Chemical:	ARSENIC		
Sample Collected:	30-JAN-14	Findings:	330. UG/L
Chemical:	BORON		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	30-JAN-14	Findings:	3.1 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	30-JAN-14	Findings:	13. UG/L
Chemical:	VANADIUM		
Sample Collected:	30-JAN-14	Findings:	2.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	30-JAN-14	Findings:	1.3 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	30-JAN-14	Findings:	250. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	30-JAN-14	Findings:	0.75
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	30-JAN-14	Findings:	3. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	30-JAN-14	Findings:	0.4 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	30-JAN-14	Findings:	21. PCI/L
Chemical:	RADON 222 COUNTING ERROR		
Sample Collected:	30-JAN-14	Findings:	770. PCI/L
Chemical:	RADON 222		
Sample Collected:	30-JAN-14	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	30-JAN-14	Findings:	690. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	30-JAN-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-MAY-14	Findings:	460. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	21-MAY-14	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	21-MAY-14	Findings:	120. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	21-MAY-14	Findings:	150. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	21-MAY-14	Findings:	24. MG/L
Chemical:	CHLORIDE		
Sample Collected:	21-MAY-14	Findings:	42. MG/L
Chemical:	SULFATE		
Sample Collected:	21-MAY-14	Findings:	1.1 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	21-MAY-14	Findings:	4. UG/L
Chemical:	ARSENIC		
Sample Collected:	21-MAY-14	Findings:	3.3 UG/L
Chemical:	CHROMIUM, HEXAVALENT		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	21-MAY-14	Findings:	12. UG/L
Chemical:	VANADIUM		
Sample Collected:	21-MAY-14	Findings:	290. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	21-MAY-14	Findings:	- 1.1
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	21-MAY-14	Findings:	5.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-MAY-14	Findings:	2500. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	21-MAY-14	Findings:	10.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	21-MAY-14	Findings:	1300. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	21-MAY-14	Findings:	0.59 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	21-MAY-14	Findings:	1.2 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	09-JUL-14	Findings:	8.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-OCT-14	Findings:	0.93 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	09-OCT-14	Findings:	3.5 UG/L
Chemical:	ARSENIC		
Sample Collected:	09-OCT-14	Findings:	220. UG/L
Chemical:	BORON		
Sample Collected:	08-JAN-15	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-15	Findings:	650. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09-APR-15	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	09-APR-15	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	09-APR-15	Findings:	210. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09-APR-15	Findings:	160. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	09-APR-15	Findings:	48. MG/L
Chemical:	CALCIUM		
Sample Collected:	09-APR-15	Findings:	9. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09-APR-15	Findings:	71. MG/L
Chemical:	SODIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09-APR-15	Findings:	2.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09-APR-15	Findings:	42. MG/L
Chemical:	CHLORIDE		
Sample Collected:	09-APR-15	Findings:	74. MG/L
Chemical:	SULFATE		
Sample Collected:	09-APR-15	Findings:	0.9 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	09-APR-15	Findings:	3.6 UG/L
Chemical:	ARSENIC		
Sample Collected:	09-APR-15	Findings:	230. UG/L
Chemical:	BORON		
Sample Collected:	09-APR-15	Findings:	11. UG/L
Chemical:	VANADIUM		
Sample Collected:	09-APR-15	Findings:	2.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-APR-15	Findings:	3.1 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-APR-15	Findings:	390. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09-APR-15	Findings:	1.
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	09-APR-15	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-15	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	09-APR-15	Findings:	3500. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	09-APR-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	16-JUL-15	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		

**AO189
NW
1/2 - 1 Mile
Lower**

CA WELLS CADW60000018162

Objectid:	18162
Latitude:	34.0814
Longitude:	-117.2954
Site code:	340814N1172954W001
State well numbe:	01S04W15M002S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000018162

AT190
NNE
1/2 - 1 Mile
Higher

CA WELLS CADW60000018157

Objectid: 18157
 Latitude: 34.085
 Longitude: -117.2737
 Site code: 340850N1172737W001
 State well numbe: 01S04W14F009S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000018157

AW191
East
1/2 - 1 Mile
Higher

CA WELLS 900

Water System Information:

Prime Station Code: 01S/04W-13N01 S	User ID: WAT
FRDS Number: 3310031031	County: Riverside
District Number: 14	Station Type: WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type: Well/Groundwater	Well Status: Active Raw
Source Lat/Long: 340417.9 1171556.0	Precision: 10 Feet (1/10 Second)
Source Name: GAGE WELL 29-2	
System Number: 3310031	
System Name: Riverside, City of	
Organization That Operates System: 3900 MAIN STREET RIVERSIDE, CA 92522	
Pop Served: 245000	Connections: 58586
Area Served: RIVERSIDE	
Sample Collected: 19-MAY-11	Findings: 420. MG/L
Chemical: TOTAL DISSOLVED SOLIDS	
Sample Collected: 19-MAY-11	Findings: 1.1
Chemical: LANGELIER INDEX @ 60 C	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	19-MAY-11	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-MAY-11	Findings:	5800. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	19-MAY-11	Findings:	0.12 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	19-MAY-11	Findings:	0.11 MG/L
Chemical:	BROMIDE		
Sample Collected:	19-MAY-11	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	19-MAY-11	Findings:	6200. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	19-MAY-11	Findings:	7.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	19-MAY-11	Findings:	25. UG/L
Chemical:	CHLORATE		
Sample Collected:	19-MAY-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-MAY-11	Findings:	0.6 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	19-MAY-11	Findings:	1.1 PCI/L
Chemical:	GROSS BETA MDA95		
Sample Collected:	14-JUN-11	Findings:	32. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	14-JUN-11	Findings:	4.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-JUN-11	Findings:	28. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	11-OCT-13	Findings:	12. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-OCT-13	Findings:	5.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	11-OCT-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	14-NOV-13	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	14-NOV-13	Findings:	660. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	14-NOV-13	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	14-NOV-13	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	14-NOV-13	Findings:	210. MG/L
Chemical:	BICARBONATE ALKALINITY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	14-NOV-13	Findings:	270. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	14-NOV-13	Findings:	86. MG/L
Chemical:	CALCIUM		
Sample Collected:	14-NOV-13	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	14-NOV-13	Findings:	28. MG/L
Chemical:	SODIUM		
Sample Collected:	14-NOV-13	Findings:	3.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	14-NOV-13	Findings:	25. MG/L
Chemical:	CHLORIDE		
Sample Collected:	14-NOV-13	Findings:	96. MG/L
Chemical:	SULFATE		
Sample Collected:	14-NOV-13	Findings:	0.64 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	14-NOV-13	Findings:	1.8 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	14-NOV-13	Findings:	2.9 UG/L
Chemical:	MOLYBDENUM		
Sample Collected:	14-NOV-13	Findings:	3.1 UG/L
Chemical:	VANADIUM		
Sample Collected:	14-NOV-13	Findings:	21. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	14-NOV-13	Findings:	4.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-NOV-13	Findings:	7.8 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	14-NOV-13	Findings:	1.5 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	10-DEC-14	Findings:	10. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-DEC-14	Findings:	9. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	10-DEC-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	09-JAN-15	Findings:	28. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-JAN-15	Findings:	4.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-JAN-15	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-JAN-15	Findings:	7.9 UG/L
Chemical:	TRICHLOROETHYLENE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09-JAN-15	Findings:	8.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-JUN-11	Findings:	14. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JUN-11	Findings:	5.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-JUN-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	14-JUL-11	Findings:	28. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	14-JUL-11	Findings:	4. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-JUL-11	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	14-JUL-11	Findings:	18. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-NOV-13	Findings:	0.12 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	14-NOV-13	Findings:	29. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	14-NOV-13	Findings:	9.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-NOV-13	Findings:	380. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-NOV-13	Findings:	1.3
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	14-NOV-13	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-JAN-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-FEB-15	Findings:	0.127 PCI/L
Chemical:	STRONTIUM-90 COUNTING ERROR		
Sample Collected:	13-FEB-15	Findings:	310. PCI/L
Chemical:	TRITIUM COUNTING ERROR		
Sample Collected:	13-FEB-15	Findings:	317. PCI/L
Chemical:	TRITIUM MDA95		
Sample Collected:	13-FEB-15	Findings:	670. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	13-FEB-15	Findings:	7.7
Chemical:	PH, LABORATORY		
Sample Collected:	13-FEB-15	Findings:	190. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	13-FEB-15	Findings:	240. MG/L
Chemical:	BICARBONATE ALKALINITY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	13-FEB-15	Findings:	280. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	13-FEB-15	Findings:	89. MG/L
Chemical:	CALCIUM		
Sample Collected:	13-FEB-15	Findings:	15. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	13-FEB-15	Findings:	29. MG/L
Chemical:	SODIUM		
Sample Collected:	13-FEB-15	Findings:	3.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	13-FEB-15	Findings:	24. MG/L
Chemical:	CHLORIDE		
Sample Collected:	13-FEB-15	Findings:	99. MG/L
Chemical:	SULFATE		
Sample Collected:	13-FEB-15	Findings:	0.43 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	13-FEB-15	Findings:	1.8 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	13-FEB-15	Findings:	2.9 UG/L
Chemical:	MOLYBDENUM		
Sample Collected:	13-FEB-15	Findings:	3.2 UG/L
Chemical:	VANADIUM		
Sample Collected:	13-FEB-15	Findings:	13. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	13-FEB-15	Findings:	3.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	13-FEB-15	Findings:	9.6 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	13-FEB-15	Findings:	2.2 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	13-FEB-15	Findings:	0.13 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	13-FEB-15	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	13-FEB-15	Findings:	430. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	13-FEB-15	Findings:	1.
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	13-FEB-15	Findings:	24. MG/L
Chemical:	NITRATE (AS NO ₃)		
Sample Collected:	13-FEB-15	Findings:	7800. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	13-FEB-15	Findings:	2.e-003 UG/L
Chemical:	N-NITROSODIETHYLAMINE (NDEA)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	14-JUL-11	Findings:	5.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-JUL-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	25-AUG-11	Findings:	640. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	25-AUG-11	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	25-AUG-11	Findings:	190. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	25-AUG-11	Findings:	230. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	25-AUG-11	Findings:	270. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	25-AUG-11	Findings:	87. MG/L
Chemical:	CALCIUM		
Sample Collected:	25-AUG-11	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	25-AUG-11	Findings:	30. MG/L
Chemical:	SODIUM		
Sample Collected:	25-AUG-11	Findings:	3.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	25-AUG-11	Findings:	22. MG/L
Chemical:	CHLORIDE		
Sample Collected:	25-AUG-11	Findings:	88. MG/L
Chemical:	SULFATE		
Sample Collected:	25-AUG-11	Findings:	0.56 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	25-AUG-11	Findings:	1.8 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	25-AUG-11	Findings:	3.3 UG/L
Chemical:	MOLYBDENUM		
Sample Collected:	25-AUG-11	Findings:	30. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	25-AUG-11	Findings:	4.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	25-AUG-11	Findings:	8.5 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	25-AUG-11	Findings:	1.5 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	25-AUG-11	Findings:	0.59 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	25-AUG-11	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	14-NOV-13	Findings:	0.2 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	14-NOV-13	Findings:	0.11 MG/L
Chemical:	BROMIDE		
Sample Collected:	14-NOV-13	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	14-NOV-13	Findings:	5300. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	14-NOV-13	Findings:	25. UG/L
Chemical:	CHLORATE		
Sample Collected:	14-NOV-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	14-NOV-13	Findings:	0.3 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	14-NOV-13	Findings:	0.73 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	14-NOV-13	Findings:	1. PCI/L
Chemical:	GROSS BETA MDA95		
Sample Collected:	19-DEC-13	Findings:	28. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	19-DEC-13	Findings:	5.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-DEC-13	Findings:	25. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-DEC-13	Findings:	12. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-FEB-15	Findings:	0.11 MG/L
Chemical:	BROMIDE		
Sample Collected:	13-FEB-15	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	13-FEB-15	Findings:	5300. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	13-FEB-15	Findings:	5.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	13-FEB-15	Findings:	28. UG/L
Chemical:	CHLORATE		
Sample Collected:	13-FEB-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-FEB-15	Findings:	0.35 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	13-FEB-15	Findings:	0.8 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	13-FEB-15	Findings:	1.6 PCI/L
Chemical:	GROSS BETA MDA95		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	23-APR-15	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	23-APR-15	Findings:	1.5 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	23-APR-15	Findings:	11. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	23-APR-15	Findings:	3.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	23-APR-15	Findings:	26. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	25-AUG-11	Findings:	17. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	25-AUG-11	Findings:	430. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	25-AUG-11	Findings:	- 0.16
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	25-AUG-11	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-AUG-11	Findings:	6400. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	25-AUG-11	Findings:	0.1 MG/L
Chemical:	BROMIDE		
Sample Collected:	25-AUG-11	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	25-AUG-11	Findings:	6000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	25-AUG-11	Findings:	5.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	25-AUG-11	Findings:	26. UG/L
Chemical:	CHLORATE		
Sample Collected:	25-AUG-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	25-AUG-11	Findings:	0.73 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	25-AUG-11	Findings:	0.99 PCI/L
Chemical:	GROSS BETA MDA95		
Sample Collected:	28-SEP-11	Findings:	23. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	28-SEP-11	Findings:	3.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	28-SEP-11	Findings:	28. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-DEC-13	Findings:	6.4 UG/L
Chemical:	PERCHLORATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	19-DEC-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	15-JAN-14	Findings:	20. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	15-JAN-14	Findings:	5.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	15-JAN-14	Findings:	28. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	15-JAN-14	Findings:	13. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-JAN-14	Findings:	5.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	15-JAN-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-FEB-14	Findings:	127. PCI/L
Chemical:	TRITIUM COUNTING ERROR		
Sample Collected:	13-FEB-14	Findings:	0.278 PCI/L
Chemical:	STRONTIUM-90 COUNTING ERROR		
Sample Collected:	13-FEB-14	Findings:	660. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	13-FEB-14	Findings:	7.7
Chemical:	PH, LABORATORY		
Sample Collected:	13-FEB-14	Findings:	190. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	13-FEB-14	Findings:	230. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	13-FEB-14	Findings:	280. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	13-FEB-14	Findings:	88. MG/L
Chemical:	CALCIUM		
Sample Collected:	13-FEB-14	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	13-FEB-14	Findings:	28. MG/L
Chemical:	SODIUM		
Sample Collected:	13-FEB-14	Findings:	3.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	13-FEB-14	Findings:	24. MG/L
Chemical:	CHLORIDE		
Sample Collected:	13-FEB-14	Findings:	92. MG/L
Chemical:	SULFATE		
Sample Collected:	13-FEB-14	Findings:	0.55 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	23-APR-15	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	23-APR-15	Findings:	1.5 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	23-APR-15	Findings:	4.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	23-APR-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	30-JUN-15	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-JUL-15	Findings:	0.505 PCI/L
Chemical:	STRONTIUM-90 COUNTING ERROR		
Sample Collected:	09-JUL-15	Findings:	332. PCI/L
Chemical:	TRITIUM COUNTING ERROR		
Sample Collected:	09-JUL-15	Findings:	343. PCI/L
Chemical:	TRITIUM MDA95		
Sample Collected:	21-AUG-15	Findings:	0.311 PCI/L
Chemical:	STRONTIUM-90 COUNTING ERROR		
Sample Collected:	21-AUG-15	Findings:	319. PCI/L
Chemical:	TRITIUM COUNTING ERROR		
Sample Collected:	21-AUG-15	Findings:	340. PCI/L
Chemical:	TRITIUM MDA95		
Sample Collected:	21-AUG-15	Findings:	670. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	21-AUG-15	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	21-AUG-15	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	21-AUG-15	Findings:	220. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	21-AUG-15	Findings:	5.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	21-AUG-15	Findings:	270. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	21-AUG-15	Findings:	84. MG/L
Chemical:	CALCIUM		
Sample Collected:	21-AUG-15	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	21-AUG-15	Findings:	28. MG/L
Chemical:	SODIUM		
Sample Collected:	21-AUG-15	Findings:	3.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	21-AUG-15	Findings:	27. MG/L
Chemical:	CHLORIDE		
Sample Collected:	21-AUG-15	Findings:	100. MG/L
Chemical:	SULFATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	21-AUG-15	Findings:	0.6 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	21-AUG-15	Findings:	1.9 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	28-SEP-11	Findings:	17. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	28-SEP-11	Findings:	6.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	28-SEP-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	08-FEB-12	Findings:	640. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08-FEB-12	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	08-FEB-12	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	08-FEB-12	Findings:	220. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08-FEB-12	Findings:	270. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	08-FEB-12	Findings:	85. MG/L
Chemical:	CALCIUM		
Sample Collected:	08-FEB-12	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08-FEB-12	Findings:	29. MG/L
Chemical:	SODIUM		
Sample Collected:	08-FEB-12	Findings:	3.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08-FEB-12	Findings:	22. MG/L
Chemical:	CHLORIDE		
Sample Collected:	08-FEB-12	Findings:	83. MG/L
Chemical:	SULFATE		
Sample Collected:	08-FEB-12	Findings:	0.64 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	08-FEB-12	Findings:	1.9 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	08-FEB-12	Findings:	2.7 UG/L
Chemical:	MOLYBDENUM		
Sample Collected:	13-FEB-14	Findings:	1.8 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	13-FEB-14	Findings:	2.6 UG/L
Chemical:	MOLYBDENUM		
Sample Collected:	13-FEB-14	Findings:	18. PCI/L
Chemical:	GROSS ALPHA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	13-FEB-14	Findings:	4.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	13-FEB-14	Findings:	10. PCI/L
Chemical:	GROSS BETA		
Sample Collected:	13-FEB-14	Findings:	1.7 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	13-FEB-14	Findings:	0.16 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	13-FEB-14	Findings:	0.32 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	13-FEB-14	Findings:	26. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	13-FEB-14	Findings:	8.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-FEB-14	Findings:	410. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	13-FEB-14	Findings:	1.
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	13-FEB-14	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-15	Findings:	3.1 UG/L
Chemical:	MOLYDBENDUM		
Sample Collected:	21-AUG-15	Findings:	3.1 UG/L
Chemical:	VANADIUM		
Sample Collected:	21-AUG-15	Findings:	24. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	21-AUG-15	Findings:	0.37 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	21-AUG-15	Findings:	10. PCI/L
Chemical:	GROSS BETA		
Sample Collected:	21-AUG-15	Findings:	2. PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	21-AUG-15	Findings:	0.14 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	21-AUG-15	Findings:	0.32 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	21-AUG-15	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	21-AUG-15	Findings:	4.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-AUG-15	Findings:	450. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	21-AUG-15	Findings:	1.2
Chemical:	LANGELIER INDEX @ 60 C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	21-AUG-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-FEB-12	Findings:	22. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	08-FEB-12	Findings:	3.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08-FEB-12	Findings:	1.3 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	08-FEB-12	Findings:	0.14 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	08-FEB-12	Findings:	26. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	08-FEB-12	Findings:	27. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-FEB-12	Findings:	410. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08-FEB-12	Findings:	1.
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	08-FEB-12	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-FEB-14	Findings:	0.14 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	13-FEB-14	Findings:	0.1 MG/L
Chemical:	BROMIDE		
Sample Collected:	13-FEB-14	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	13-FEB-14	Findings:	5400. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	13-FEB-14	Findings:	6.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	13-FEB-14	Findings:	25. UG/L
Chemical:	CHLORATE		
Sample Collected:	13-FEB-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-FEB-14	Findings:	0.41 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	13-FEB-14	Findings:	0.61 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	13-FEB-14	Findings:	1.1 PCI/L
Chemical:	GROSS BETA MDA95		
Sample Collected:	06-MAR-14	Findings:	12. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06-MAR-14	Findings:	3.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06-MAR-14	Findings:	24. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	21-AUG-15	Findings:	0.11 MG/L
Chemical:	BROMIDE		
Sample Collected:	21-AUG-15	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	21-AUG-15	Findings:	5100. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	21-AUG-15	Findings:	4.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	21-AUG-15	Findings:	28. UG/L
Chemical:	CHLORATE		
Sample Collected:	21-AUG-15	Findings:	1.3 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-AUG-15	Findings:	0.32 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	21-AUG-15	Findings:	0.6 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	21-AUG-15	Findings:	1.5 PCI/L
Chemical:	GROSS BETA MDA95		
Sample Collected:	17-SEP-15	Findings:	29. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	17-SEP-15	Findings:	0.36 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	17-SEP-15	Findings:	26. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	08-FEB-12	Findings:	0.1 MG/L
Chemical:	BROMIDE		
Sample Collected:	08-FEB-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	08-FEB-12	Findings:	6700. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	08-FEB-12	Findings:	8.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	08-FEB-12	Findings:	24. UG/L
Chemical:	CHLORATE		
Sample Collected:	08-FEB-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	08-FEB-12	Findings:	0.32 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	08-FEB-12	Findings:	0.81 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	08-FEB-12	Findings:	1.2 PCI/L
Chemical:	GROSS BETA MDA95		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01-MAR-12	Findings:	30. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	01-MAR-12	Findings:	4.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01-MAR-12	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	01-MAR-12	Findings:	23. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-MAR-14	Findings:	6.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-MAR-14	Findings:	6.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-MAR-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	02-APR-14	Findings:	24. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	02-APR-14	Findings:	4.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02-APR-14	Findings:	28. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	02-APR-14	Findings:	4.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-APR-14	Findings:	7.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	02-APR-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	17-SEP-15	Findings:	4.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-SEP-15	Findings:	4.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	17-SEP-15	Findings:	1.5 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	22-OCT-15	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	22-OCT-15	Findings:	2.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-MAR-12	Findings:	7. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	01-MAR-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	05-APR-12	Findings:	630. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	05-APR-12	Findings:	7.7
Chemical:	PH, LABORATORY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05-APR-12	Findings:	190. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	05-APR-12	Findings:	230. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05-APR-12	Findings:	270. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	05-APR-12	Findings:	86. MG/L
Chemical:	CALCIUM		
Sample Collected:	05-APR-12	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05-APR-12	Findings:	30. MG/L
Chemical:	SODIUM		
Sample Collected:	05-APR-12	Findings:	3.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	05-APR-12	Findings:	21. MG/L
Chemical:	CHLORIDE		
Sample Collected:	05-APR-12	Findings:	83. MG/L
Chemical:	SULFATE		
Sample Collected:	05-APR-12	Findings:	0.6 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	05-APR-12	Findings:	4. UG/L
Chemical:	MOLYBDENUM		
Sample Collected:	05-APR-12	Findings:	3.3 UG/L
Chemical:	VANADIUM		
Sample Collected:	05-APR-12	Findings:	22. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	05-APR-12	Findings:	4. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05-APR-12	Findings:	29. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05-APR-12	Findings:	0.12 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	05-APR-12	Findings:	17. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-APR-12	Findings:	420. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05-APR-12	Findings:	0.99
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	05-JUN-14	Findings:	126. PCI/L
Chemical:	TRITIUM COUNTING ERROR		
Sample Collected:	05-JUN-14	Findings:	0.168 PCI/L
Chemical:	STRONTIUM-90 COUNTING ERROR		
Sample Collected:	05-JUN-14	Findings:	680. US
Chemical:	SPECIFIC CONDUCTANCE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05-JUN-14	Findings:	7.7
Chemical:	PH, LABORATORY		
Sample Collected:	05-JUN-14	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	05-JUN-14	Findings:	210. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05-JUN-14	Findings:	280. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	05-JUN-14	Findings:	89. MG/L
Chemical:	CALCIUM		
Sample Collected:	05-JUN-14	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05-JUN-14	Findings:	28. MG/L
Chemical:	SODIUM		
Sample Collected:	05-JUN-14	Findings:	3. MG/L
Chemical:	POTASSIUM		
Sample Collected:	05-JUN-14	Findings:	24. MG/L
Chemical:	CHLORIDE		
Sample Collected:	05-JUN-14	Findings:	94. MG/L
Chemical:	SULFATE		
Sample Collected:	05-JUN-14	Findings:	0.59 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	05-JUN-14	Findings:	1.7 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	05-JUN-14	Findings:	2.9 UG/L
Chemical:	MOLYBDENUM		
Sample Collected:	05-JUN-14	Findings:	3.2 UG/L
Chemical:	VANADIUM		
Sample Collected:	05-JUN-14	Findings:	32. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	05-JUN-14	Findings:	5. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05-JUN-14	Findings:	14. PCI/L
Chemical:	GROSS BETA		
Sample Collected:	05-JUN-14	Findings:	1.7 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	05-JUN-14	Findings:	0.2 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	05-JUN-14	Findings:	0.26 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	05-JUN-14	Findings:	29. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05-JUN-14	Findings:	9. UG/L
Chemical:	TRICHLOROETHYLENE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	23-OCT-15	Findings:	31. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	23-OCT-15	Findings:	0.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	23-OCT-15	Findings:	1.3 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	03-DEC-15	Findings:	296. PCI/L
Chemical:	TRITIUM COUNTING ERROR		
Sample Collected:	03-DEC-15	Findings:	311. PCI/L
Chemical:	TRITIUM MDA95		
Sample Collected:	03-DEC-15	Findings:	690. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03-DEC-15	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	03-DEC-15	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	03-DEC-15	Findings:	230. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03-DEC-15	Findings:	4.7 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	03-DEC-15	Findings:	0.16 UG/L
Chemical:	PHOSPHATE (AS PO4)		
Sample Collected:	03-DEC-15	Findings:	280. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	03-DEC-15	Findings:	89. MG/L
Chemical:	CALCIUM		
Sample Collected:	03-DEC-15	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03-DEC-15	Findings:	28. MG/L
Chemical:	SODIUM		
Sample Collected:	03-DEC-15	Findings:	3.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03-DEC-15	Findings:	27. MG/L
Chemical:	CHLORIDE		
Sample Collected:	03-DEC-15	Findings:	110. MG/L
Chemical:	SULFATE		
Sample Collected:	03-DEC-15	Findings:	0.6 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	03-DEC-15	Findings:	2. UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	03-DEC-15	Findings:	3.1 UG/L
Chemical:	MOLYBDENUM		
Sample Collected:	03-DEC-15	Findings:	34. PCI/L
Chemical:	GROSS ALPHA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-DEC-15	Findings:	0.42 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03-DEC-15	Findings:	8.8 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	03-DEC-15	Findings:	1.8 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	03-DEC-15	Findings:	0.13 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	03-DEC-15	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05-APR-12	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-APR-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	05-APR-12	Findings:	6000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	05-APR-12	Findings:	8.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	05-APR-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	07-JUN-12	Findings:	27. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07-JUN-12	Findings:	4.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07-JUN-12	Findings:	25. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	07-JUN-12	Findings:	16. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-JUN-14	Findings:	430. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05-JUN-14	Findings:	0.96
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	05-JUN-14	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JUN-14	Findings:	6900. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	05-JUN-14	Findings:	0.1 MG/L
Chemical:	BROMIDE		
Sample Collected:	05-JUN-14	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	05-JUN-14	Findings:	5700. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	05-JUN-14	Findings:	7.8 UG/L
Chemical:	PERCHLORATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05-JUN-14	Findings:	21. UG/L
Chemical:	CHLORATE		
Sample Collected:	05-JUN-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	05-JUN-14	Findings:	0.36 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	05-JUN-14	Findings:	0.5 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	05-JUN-14	Findings:	0.97 PCI/L
Chemical:	GROSS BETA MDA95		
Sample Collected:	10-JUL-14	Findings:	22. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10-JUL-14	Findings:	4. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-JUL-14	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	03-DEC-15	Findings:	2.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-DEC-15	Findings:	470. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-DEC-15	Findings:	1.2
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	03-DEC-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-DEC-15	Findings:	4700. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	03-DEC-15	Findings:	0.11 MG/L
Chemical:	BROMIDE		
Sample Collected:	03-DEC-15	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	07-JUN-12	Findings:	7.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	07-JUN-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	26-JUL-12	Findings:	23. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	26-JUL-12	Findings:	3.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	26-JUL-12	Findings:	28. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	26-JUL-12	Findings:	17. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	26-JUL-12	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	26-JUL-12	Findings:	6.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	26-JUL-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	27-SEP-12	Findings:	24. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	27-SEP-12	Findings:	3.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	27-SEP-12	Findings:	26. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-JUL-14	Findings:	8.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-JUL-14	Findings:	8.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	10-JUL-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	28-AUG-14	Findings:	132. PCI/L
Chemical:	TRITIUM COUNTING ERROR		
Sample Collected:	28-AUG-14	Findings:	0.137 PCI/L
Chemical:	STRONTIUM-90 COUNTING ERROR		
Sample Collected:	28-AUG-14	Findings:	680. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	28-AUG-14	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	28-AUG-14	Findings:	200. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	28-AUG-14	Findings:	240. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	28-AUG-14	Findings:	290. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	28-AUG-14	Findings:	92. MG/L
Chemical:	CALCIUM		
Sample Collected:	28-AUG-14	Findings:	15. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	28-AUG-14	Findings:	31. MG/L
Chemical:	SODIUM		
Sample Collected:	28-AUG-14	Findings:	3.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	28-AUG-14	Findings:	22. MG/L
Chemical:	CHLORIDE		
Sample Collected:	28-AUG-14	Findings:	93. MG/L
Chemical:	SULFATE		
Sample Collected:	28-AUG-14	Findings:	0.57 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	28-AUG-14	Findings:	1.7 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	28-AUG-14	Findings:	2.8 UG/L
Chemical:	MOLYDBENDUM		
Sample Collected:	28-AUG-14	Findings:	3.6 UG/L
Chemical:	VANADIUM		
Sample Collected:	28-AUG-14	Findings:	28. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	28-AUG-14	Findings:	4.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	28-AUG-14	Findings:	9.8 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	28-AUG-14	Findings:	1.5 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	03-DEC-15	Findings:	4700. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03-DEC-15	Findings:	28. UG/L
Chemical:	CHLORATE		
Sample Collected:	03-DEC-15	Findings:	1.3 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	03-DEC-15	Findings:	0.28 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	03-DEC-15	Findings:	0.77 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	03-DEC-15	Findings:	1.2 PCI/L
Chemical:	GROSS BETA MDA95		
Sample Collected:	07-JAN-16	Findings:	30. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07-JAN-16	Findings:	0.39 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07-JAN-16	Findings:	31. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	07-JAN-16	Findings:	1.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JAN-16	Findings:	1.7 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	24-FEB-16	Findings:	312. PCI/L
Chemical:	TRITIUM COUNTING ERROR		
Sample Collected:	24-FEB-16	Findings:	312. PCI/L
Chemical:	TRITIUM COUNTING ERROR		
Sample Collected:	24-FEB-16	Findings:	323. PCI/L
Chemical:	TRITIUM MDA95		
Sample Collected:	24-FEB-16	Findings:	323. PCI/L
Chemical:	TRITIUM MDA95		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	24-FEB-16	Findings:	690. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	24-FEB-16	Findings:	7.7
Chemical:	PH, LABORATORY		
Sample Collected:	24-FEB-16	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	24-FEB-16	Findings:	220. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	27-SEP-12	Findings:	20. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	27-SEP-12	Findings:	5.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	27-SEP-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	18-OCT-12	Findings:	11. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	18-OCT-12	Findings:	3.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	18-OCT-12	Findings:	25. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	18-OCT-12	Findings:	15. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-OCT-12	Findings:	26. MG/L
Chemical:	NITRATE (AS NO ₃)		
Sample Collected:	28-AUG-14	Findings:	0.13 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	28-AUG-14	Findings:	26. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	28-AUG-14	Findings:	1.9e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	28-AUG-14	Findings:	10. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	28-AUG-14	Findings:	450. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	28-AUG-14	Findings:	1.3
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	28-AUG-14	Findings:	26. MG/L
Chemical:	NITRATE (AS NO ₃)		
Sample Collected:	24-FEB-16	Findings:	4.8 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	24-FEB-16	Findings:	290. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	24-FEB-16	Findings:	92. MG/L
Chemical:	CALCIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	24-FEB-16	Findings:	15. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	24-FEB-16	Findings:	30. MG/L
Chemical:	SODIUM		
Sample Collected:	24-FEB-16	Findings:	3.4 MG/L
Chemical:	POTASSIUM		
Sample Collected:	24-FEB-16	Findings:	26. MG/L
Chemical:	CHLORIDE		
Sample Collected:	24-FEB-16	Findings:	110. MG/L
Chemical:	SULFATE		
Sample Collected:	24-FEB-16	Findings:	0.59 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	24-FEB-16	Findings:	2. UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	24-FEB-16	Findings:	2.9 UG/L
Chemical:	MOLYBDENUM		
Sample Collected:	24-FEB-16	Findings:	3.6 UG/L
Chemical:	VANADIUM		
Sample Collected:	24-FEB-16	Findings:	34. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	24-FEB-16	Findings:	0.41 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-FEB-16	Findings:	7.2 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	24-FEB-16	Findings:	1.8 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	24-FEB-16	Findings:	0.1 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	24-FEB-16	Findings:	26. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	24-FEB-16	Findings:	3.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-OCT-12	Findings:	7.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	18-OCT-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-DEC-12	Findings:	17. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	13-DEC-12	Findings:	3.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	13-DEC-12	Findings:	26. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	13-DEC-12	Findings:	13. UG/L
Chemical:	TRICHLOROETHYLENE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	13-DEC-12	Findings:	6.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	13-DEC-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	10-JAN-13	Findings:	16. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10-JAN-13	Findings:	3.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-JAN-13	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	28-AUG-14	Findings:	9.4e-002 MG/L
Chemical:	BROMIDE		
Sample Collected:	28-AUG-14	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	28-AUG-14	Findings:	6000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	28-AUG-14	Findings:	8.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	28-AUG-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	28-AUG-14	Findings:	0.34 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	28-AUG-14	Findings:	0.7 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	28-AUG-14	Findings:	1. PCI/L
Chemical:	GROSS BETA MDA95		
Sample Collected:	19-SEP-14	Findings:	22. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	19-SEP-14	Findings:	4. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-SEP-14	Findings:	26. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-SEP-14	Findings:	9. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	24-FEB-16	Findings:	450. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	24-FEB-16	Findings:	1.
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	24-FEB-16	Findings:	0.11 MG/L
Chemical:	BROMIDE		
Sample Collected:	24-FEB-16	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	24-FEB-16	Findings:	4.8 MG/L
Chemical:	NITRATE + NITRITE (AS N)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	24-FEB-16	Findings:	26. UG/L
Chemical:	CHLORATE		
Sample Collected:	24-FEB-16	Findings:	1.6 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	24-FEB-16	Findings:	0.25 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	24-FEB-16	Findings:	0.75 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	24-FEB-16	Findings:	1.1 PCI/L
Chemical:	GROSS BETA MDA95		
Sample Collected:	17-MAR-16	Findings:	12. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	17-MAR-16	Findings:	3.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	17-MAR-16	Findings:	28. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-JAN-13	Findings:	11. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-JAN-13	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JAN-13	Findings:	5.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	10-JAN-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	26-APR-13	Findings:	24. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	26-APR-13	Findings:	4. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	26-APR-13	Findings:	25. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	26-APR-13	Findings:	13. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	26-APR-13	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-SEP-14	Findings:	9.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	19-SEP-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	10-OCT-14	Findings:	27. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10-OCT-14	Findings:	4.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-OCT-14	Findings:	8.2 UG/L
Chemical:	TRICHLOROETHYLENE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-OCT-14	Findings:	9.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	10-OCT-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-NOV-14	Findings:	120. PCI/L
Chemical:	TRITIUM COUNTING ERROR		
Sample Collected:	19-NOV-14	Findings:	0.186 PCI/L
Chemical:	STRONTIUM-90 COUNTING ERROR		
Sample Collected:	19-NOV-14	Findings:	680. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	19-NOV-14	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	19-NOV-14	Findings:	200. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	19-NOV-14	Findings:	240. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	19-NOV-14	Findings:	290. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	19-NOV-14	Findings:	92. MG/L
Chemical:	CALCIUM		
Sample Collected:	19-NOV-14	Findings:	15. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	19-NOV-14	Findings:	28. MG/L
Chemical:	SODIUM		
Sample Collected:	19-NOV-14	Findings:	3.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	19-NOV-14	Findings:	23. MG/L
Chemical:	CHLORIDE		
Sample Collected:	19-NOV-14	Findings:	98. MG/L
Chemical:	SULFATE		
Sample Collected:	19-NOV-14	Findings:	0.52 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	17-MAR-16	Findings:	4. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-MAR-16	Findings:	4.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	17-MAR-16	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	26-APR-13	Findings:	7. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	26-APR-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	14-JUN-13	Findings:	25. PCI/L
Chemical:	GROSS ALPHA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	14-JUN-13	Findings:	4. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-JUN-13	Findings:	30. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	14-JUN-13	Findings:	13. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JUN-13	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUN-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	11-JUL-13	Findings:	18. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11-JUL-13	Findings:	3.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11-JUL-13	Findings:	26. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-NOV-14	Findings:	2.8 UG/L
Chemical:	MOLYDBENDUM		
Sample Collected:	19-NOV-14	Findings:	31. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	19-NOV-14	Findings:	5.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-NOV-14	Findings:	7.8 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	19-NOV-14	Findings:	1.7 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	19-NOV-14	Findings:	0.15 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	19-NOV-14	Findings:	25. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-NOV-14	Findings:	8.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-NOV-14	Findings:	430. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	19-NOV-14	Findings:	1.4
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	19-NOV-14	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-MAY-11	Findings:	127. PCI/L
Chemical:	TRITIUM COUNTING ERROR		
Sample Collected:	19-MAY-11	Findings:	0.351 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	19-MAY-11	Findings:	0.184 PCI/L
Chemical:	STRONTIUM-90 COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	19-MAY-11	Findings:	610. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	19-MAY-11	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	19-MAY-11	Findings:	190. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	19-MAY-11	Findings:	230. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11-JUL-13	Findings:	15. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-JUL-13	Findings:	7.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	11-JUL-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	12-SEP-13	Findings:	24. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12-SEP-13	Findings:	6.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-SEP-13	Findings:	26. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-SEP-13	Findings:	15. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-NOV-14	Findings:	3.e-003 UG/L
Chemical:	N-NITROSODI-N-BUTYLAMINE (NDBA)		
Sample Collected:	19-NOV-14	Findings:	9.5e-002 MG/L
Chemical:	BROMIDE		
Sample Collected:	19-NOV-14	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	19-NOV-14	Findings:	6000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	19-NOV-14	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	19-NOV-14	Findings:	21. UG/L
Chemical:	CHLORATE		
Sample Collected:	19-NOV-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-NOV-14	Findings:	0.25 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	19-NOV-14	Findings:	0.77 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	19-NOV-14	Findings:	1.1 PCI/L
Chemical:	GROSS BETA MDA95		
Sample Collected:	10-DEC-14	Findings:	19. PCI/L
Chemical:	GROSS ALPHA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-DEC-14	Findings:	4. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-DEC-14	Findings:	31. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-MAY-11	Findings:	8.5e-002 UG/L
Chemical:	PHOSPHATE (AS PO4)		
Sample Collected:	19-MAY-11	Findings:	280. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	19-MAY-11	Findings:	88. MG/L
Chemical:	CALCIUM		
Sample Collected:	19-MAY-11	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	19-MAY-11	Findings:	30. MG/L
Chemical:	SODIUM		
Sample Collected:	19-MAY-11	Findings:	3.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	19-MAY-11	Findings:	22. MG/L
Chemical:	CHLORIDE		
Sample Collected:	19-MAY-11	Findings:	89. MG/L
Chemical:	SULFATE		
Sample Collected:	19-MAY-11	Findings:	0.63 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	19-MAY-11	Findings:	1.9 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	19-MAY-11	Findings:	3.3 UG/L
Chemical:	MOLYBDENUM		
Sample Collected:	19-MAY-11	Findings:	3.2 UG/L
Chemical:	VANADIUM		
Sample Collected:	19-MAY-11	Findings:	21. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	19-MAY-11	Findings:	3.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-MAY-11	Findings:	13. PCI/L
Chemical:	GROSS BETA		
Sample Collected:	19-MAY-11	Findings:	1.5 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	19-MAY-11	Findings:	0.6 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	19-MAY-11	Findings:	29. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-MAY-11	Findings:	18. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-SEP-13	Findings:	6.5 UG/L
Chemical:	PERCHLORATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12-SEP-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	20-SEP-13	Findings:	26. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	20-SEP-13	Findings:	5.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	20-SEP-13	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	20-SEP-13	Findings:	14. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	20-SEP-13	Findings:	6.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	20-SEP-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	11-OCT-13	Findings:	29. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11-OCT-13	Findings:	6.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11-OCT-13	Findings:	29. PCI/L
Chemical:	URANIUM (PCI/L)		

**AT192
NNE
1/2 - 1 Mile
Higher**

FED USGS

USGS40000140791

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340506117162201		
Monloc name:	001S004W14L001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0850126
Longitude:	-117.2736534	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	1024.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19500101	Welldepth:	196
Welldepth units:	ft	Wellholedepth:	225
Wellholedepth units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1950-07-31	24.00	

**193
SE
1/2 - 1 Mile
Higher**

FED USGS USGS40000140434

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340357117160601		
Monloc name:	001S004W23Q001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0658467
Longitude:	-117.2692086	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1039.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	894
Welldepth units:	ft	Wellholedepth:	894
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

**AR194
SW
1/2 - 1 Mile
Lower**

CA WELLS CADW60000016085

Objectid:	16085
Latitude:	34.0647
Longitude:	-117.2946
Site code:	340647N1172946W001
State well numbe:	01S04W22N001S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino
Basin code:	'8-2.04'
Basin desc:	Rialto-Colton
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000016085

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AQ195
SSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140333

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340338117170901		
Monloc name:	001S004W27B001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.060569
Longitude:	-117.2867092	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	998.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19140101	Welldepth:	400
Welldepth units:	ft	Wellholedepth:	400
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

AS196
WSW
1/2 - 1 Mile
Lower

CA WELLS CADW60000003074

Objectid:	3074		
Latitude:	34.0681		
Longitude:	-117.2973		
Site code:	340681N1172973W001		
State well numbe:	01S04W21J005S		
Local well name:	"		
Well use id:	6		
Well use descrip:	Unknown		
County id:	36		
County name:	San Bernardino		
Basin code:	'8-2.04'		
Basin desc:	Rialto-Colton		
Dwr region id:	80238		
Dwr region:	Southern Region Office		
Site id:	CADW60000003074		

AX197
NNW
1/2 - 1 Mile
Lower

CA WELLS CADW60000001616

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid: 1616
Latitude: 34.0858
Longitude: -117.29
Site code: 340858N1172900W003
State well numbe: 01S04W15F008S
Local well name: "
Well use id: 6
Well use descrip: Unknown
County id: 36
County name: San Bernardino
Basin code: '8-2.06'
Basin desc: Bunker Hill
Dwr region id: 80238
Dwr region: Southern Region Office
Site id: CADW6000001616

AX198
NNW
1/2 - 1 Mile
Lower

CA WELLS CADW60000015633

Objectid: 15633
Latitude: 34.0858
Longitude: -117.29
Site code: 340858N1172900W002
State well numbe: 01S04W15F007S
Local well name: "
Well use id: 6
Well use descrip: Unknown
County id: 36
County name: San Bernardino
Basin code: '8-2.06'
Basin desc: Bunker Hill
Dwr region id: 80238
Dwr region: Southern Region Office
Site id: CADW60000015633

AX199
NNW
1/2 - 1 Mile
Lower

CA WELLS CADW60000016080

Objectid: 16080
Latitude: 34.0858
Longitude: -117.29
Site code: 340858N1172900W001
State well numbe: 01S04W15F006S
Local well name: "
Well use id: 6
Well use descrip: Unknown
County id: 36
County name: San Bernardino

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000016080

AW200
East
1/2 - 1 Mile
Higher

FED USGS USGS40000140554

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340418117155501		
Monloc name:	001S004W23G001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0716798
Longitude:	-117.266153	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1043.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19000101	Welldepth:	576
Welldepth units:	ft	Wellholedepth:	576
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

AY201
ESE
1/2 - 1 Mile
Higher

FED USGS USGS40000140461

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340404117160001		
Monloc name:	001S004W23K003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.067791
Longitude:	-117.2675419	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1044.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported
 Construction date: Not Reported
 Welldepth units: ft
 Wellholeddepth units: ft
 Welldepth: 640
 Wellholeddepth: 640

Ground-water levels, Number of Measurements: 0

AX202
NNW
1/2 - 1 Mile
Lower

FED USGS USGS40000140810

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340509117172401
 Monloc name: 001S004W15F006S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: Not Reported
 Drainagearea Units: Not Reported
 Contrib drainagearea units: Not Reported
 Longitude: -117.29
 Horiz Acc measure: 1
 Horiz Collection method: Global positioning system (GPS), uncorrected
 Horiz coord refsys: NAD83
 Vert measure units: feet
 Vert accmeasure units: feet
 Vertcollection method: Interpolated from topographic map
 Vert coord refsys: NGVD29
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Not Reported
 Construction date: 20021112
 Welldepth units: ft
 Wellholeddepth units: ft
 Drainagearea value: Not Reported
 Contrib drainagearea: Not Reported
 Latitude: 34.0858333
 Sourcemap scale: 24000
 Horiz Acc measure units: seconds
 Vert measure val: 990
 Vertacc measure val: 10
 Countrycode: US
 Welldepth: 225
 Wellholeddepth: 460

Ground-water levels, Number of Measurements: 19

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-01-27	48.28		2005-01-05	49.22	
2004-11-22	49.60		2004-10-23	49.17	
2004-09-15	49.36		2004-08-31	48.11	
2004-08-11	47.13		2004-07-15	45.18	
2004-06-16	43.10		2004-05-12	39.97	
2004-04-22	38.33		2004-04-08	38.03	
2004-03-23	37.94		2004-03-03	36.38	
2004-02-20	37.77		2004-01-30	37.55	
2004-01-22	37.66		2003-12-15	38.17	
2003-11-18	38.73				

AX203
NNW
1/2 - 1 Mile
Lower

FED USGS USGS40000140811

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340509117172402
 Monloc name: 001S004W15F007S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: Not Reported
 Drainagearea Units: Not Reported
 Contrib drainagearea units: Not Reported
 Longitude: -117.29
 Horiz Acc measure: 1
 Horiz Collection method: Global positioning system (GPS), uncorrected
 Horiz coord refsys: NAD83
 Vert measure units: feet
 Vert accmeasure units: feet
 Vertcollection method: Interpolated from topographic map
 Vert coord refsys: NGVD29
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Not Reported
 Construction date: 20021112
 Welldepth units: ft
 Wellholedepth units: ft

Drainagearea value: Not Reported
 Contrib drainagearea: Not Reported
 Latitude: 34.0858333
 Sourcemap scale: 24000
 Horiz Acc measure units: seconds
 Vert measure val: 990
 Vertacc measure val: 10
 Countrycode: US
 Welldepth: 130
 Wellholedepth: 460

Ground-water levels, Number of Measurements: 19

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-01-27	44.19		2005-01-05	44.83	
2004-11-22	44.19		2004-10-23	43.64	
2004-09-15	42.39		2004-08-11	40.07	
2004-07-16	38.58		2004-07-15	38.49	
2004-06-16	36.83		2004-05-12	35.02	
2004-04-22	34.18		2004-04-08	33.80	
2004-03-23	33.27		2004-03-03	33.02	
2004-02-20	33.71		2004-01-30	33.34	
2004-01-22	33.37		2003-12-15	33.43	
2003-11-18	33.61				

AX204
NNW
1/2 - 1 Mile
Lower

FED USGS USGS40000140812

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340509117172403
 Monloc name: 001S004W15F008S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: Not Reported
 Drainagearea Units: Not Reported
 Contrib drainagearea units: Not Reported
 Longitude: -117.29

Drainagearea value: Not Reported
 Contrib drainagearea: Not Reported
 Latitude: 34.0858333
 Sourcemap scale: 24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	990
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20021112	Welldepth:	60
Welldepth units:	ft	Wellholedepth:	460
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 18

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-01-27	41.19		2005-01-05	41.69	
2004-11-22	40.68		2004-10-23	39.81	
2004-09-15	39.13		2004-08-11	36.38	
2004-07-15	35.13		2004-06-16	33.57	
2004-05-12	32.52		2004-04-22	32.22	
2004-04-08	31.98		2004-03-23	31.75	
2004-03-03	31.57		2004-02-20	32.19	
2004-01-30	31.68		2004-01-22	31.60	
2003-12-15	31.32		2003-11-18	31.08	

**205
SSW
1/2 - 1 Mile
Lower**

FED USGS USGS40000140337

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340339117171501		
Monloc name:	001S004W27C007S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0608467
Longitude:	-117.2883759	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	990.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19630101	Welldepth:	145
Welldepth units:	ft	Wellholedepth:	145
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AP206
ESE
1/2 - 1 Mile
Higher

FED USGS USGS40000140514

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340412117155601		
Monloc name:	001S004W23K001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0700132
Longitude:	-117.2664308	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	418
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AZ207
East
1/2 - 1 Mile
Higher

CA WELLS 930

Water System Information:

Prime Station Code:	01S/04W-23A02 S	User ID:	WAT
FRDS Number:	3310031027	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340429.8 1171554.5	Precision:	10 Feet (1/10 Second)
Source Name:	GAGE WELL 26-1		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		
Sample Collected:	06-JAN-11	Findings:	45. PCI/L
Chemical:	GROSS ALPHA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06-JAN-11	Findings:	56. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	06-JAN-11	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-JAN-11	Findings:	3.8 UG/L
Chemical:	METHYL-TERT-BUTYL-ETHER (MTBE)		
Sample Collected:	06-JAN-11	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-JAN-11	Findings:	5. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	17-JAN-13	Findings:	940. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	17-JAN-13	Findings:	7.6
Chemical:	PH, LABORATORY		
Sample Collected:	17-JAN-13	Findings:	230. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	17-JAN-13	Findings:	280. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	17-JAN-13	Findings:	420. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	17-JAN-13	Findings:	130. MG/L
Chemical:	CALCIUM		
Sample Collected:	17-JAN-13	Findings:	22. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	17-JAN-13	Findings:	36. MG/L
Chemical:	SODIUM		
Sample Collected:	17-JAN-13	Findings:	3.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	17-JAN-13	Findings:	26. MG/L
Chemical:	CHLORIDE		
Sample Collected:	17-JAN-13	Findings:	210. MG/L
Chemical:	SULFATE		
Sample Collected:	17-JAN-13	Findings:	0.51 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	17-JAN-13	Findings:	3.5 UG/L
Chemical:	VANADIUM		
Sample Collected:	17-JAN-13	Findings:	44. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-JAN-13	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-JAN-13	Findings:	640. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	17-JAN-13	Findings:	1.2
Chemical:	LANGELIER INDEX @ 60 C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	17-JAN-13	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-FEB-11	Findings:	940. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	01-FEB-11	Findings:	7.6
Chemical:	PH, LABORATORY		
Sample Collected:	01-FEB-11	Findings:	250. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	01-FEB-11	Findings:	310. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	01-FEB-11	Findings:	430. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	01-FEB-11	Findings:	140. MG/L
Chemical:	CALCIUM		
Sample Collected:	01-FEB-11	Findings:	23. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	01-FEB-11	Findings:	40. MG/L
Chemical:	SODIUM		
Sample Collected:	01-FEB-11	Findings:	4.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	01-FEB-11	Findings:	31. MG/L
Chemical:	CHLORIDE		
Sample Collected:	01-FEB-11	Findings:	190. MG/L
Chemical:	SULFATE		
Sample Collected:	01-FEB-11	Findings:	0.59 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	01-FEB-11	Findings:	37. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	01-FEB-11	Findings:	52. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	01-FEB-11	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-FEB-11	Findings:	640. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	01-FEB-11	Findings:	1.2
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	01-FEB-11	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-FEB-11	Findings:	12000. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	01-FEB-11	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	17-JAN-13	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	17-JAN-13	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	17-JAN-13	Findings:	4000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	24-MAY-13	Findings:	27.1 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	24-MAY-13	Findings:	1.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-MAY-13	Findings:	920. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	24-MAY-13	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	24-MAY-13	Findings:	220. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	24-MAY-13	Findings:	260. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	24-MAY-13	Findings:	400. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	24-MAY-13	Findings:	120. MG/L
Chemical:	CALCIUM		
Sample Collected:	24-MAY-13	Findings:	22. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	24-MAY-13	Findings:	40. MG/L
Chemical:	SODIUM		
Sample Collected:	24-MAY-13	Findings:	3.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	24-MAY-13	Findings:	32. MG/L
Chemical:	CHLORIDE		
Sample Collected:	24-MAY-13	Findings:	200. MG/L
Chemical:	SULFATE		
Sample Collected:	24-MAY-13	Findings:	0.55 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	24-MAY-13	Findings:	99. UG/L
Chemical:	NICKEL		
Sample Collected:	24-MAY-13	Findings:	3.3 UG/L
Chemical:	VANADIUM		
Sample Collected:	24-MAY-13	Findings:	46. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	24-MAY-13	Findings:	0.78 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	24-MAY-13	Findings:	630. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	24-MAY-13	Findings:	1.4
Chemical:	LANGELIER INDEX @ 60 C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01-FEB-11	Findings:	5600. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	01-FEB-11	Findings:	5.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	03-MAR-11	Findings:	61. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03-MAR-11	Findings:	50. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	03-MAR-11	Findings:	0.98 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-MAR-11	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-MAR-11	Findings:	5.3 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	07-APR-11	Findings:	55. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07-APR-11	Findings:	5.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07-APR-11	Findings:	47. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	24-MAY-13	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-MAY-13	Findings:	0.14 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	24-MAY-13	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	24-MAY-13	Findings:	5100. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	24-MAY-13	Findings:	4.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	20-JUN-13	Findings:	23.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	20-JUN-13	Findings:	3.62 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	20-JUN-13	Findings:	39. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	20-JUN-13	Findings:	0.85 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	20-JUN-13	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-APR-11	Findings:	0.93 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-APR-11	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07-APR-11	Findings:	4.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	07-APR-11	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-MAY-11	Findings:	59. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06-MAY-11	Findings:	5.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-MAY-11	Findings:	49. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	06-MAY-11	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-MAY-11	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-JUL-13	Findings:	19. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12-JUL-13	Findings:	3.13 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-JUL-13	Findings:	42. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-JUL-13	Findings:	0.89 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-JUL-13	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-AUG-13	Findings:	34.9 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07-AUG-13	Findings:	4.69 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07-AUG-13	Findings:	42. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	07-AUG-13	Findings:	0.53 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	06-MAY-11	Findings:	5.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-MAY-11	Findings:	3.9 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	10-JUN-11	Findings:	30.1 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10-JUN-11	Findings:	3.55 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-JUN-11	Findings:	47. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-JUN-11	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-JUN-11	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUN-11	Findings:	5.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-JUL-11	Findings:	36.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	14-JUL-11	Findings:	2.89 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-JUL-11	Findings:	47. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	07-AUG-13	Findings:	0.91 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-AUG-13	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-SEP-13	Findings:	33.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06-SEP-13	Findings:	4.33 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-SEP-13	Findings:	40. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	06-SEP-13	Findings:	0.83 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	06-SEP-13	Findings:	0.86 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-SEP-13	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUL-11	Findings:	0.87 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JUL-11	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUL-11	Findings:	5.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	12-AUG-11	Findings:	33.7 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12-AUG-11	Findings:	2.48 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-AUG-11	Findings:	49. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-AUG-11	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-AUG-11	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-SEP-13	Findings:	4.1 UG/L
Chemical:	PERCHLORATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02-JUL-14	Findings:	950. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	02-JUL-14	Findings:	7.7
Chemical:	PH, LABORATORY		
Sample Collected:	02-JUL-14	Findings:	230. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	02-JUL-14	Findings:	280. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	02-JUL-14	Findings:	390. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	02-JUL-14	Findings:	120. MG/L
Chemical:	CALCIUM		
Sample Collected:	02-JUL-14	Findings:	22. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	02-JUL-14	Findings:	42. MG/L
Chemical:	SODIUM		
Sample Collected:	02-JUL-14	Findings:	4. MG/L
Chemical:	POTASSIUM		
Sample Collected:	02-JUL-14	Findings:	34. MG/L
Chemical:	CHLORIDE		
Sample Collected:	02-JUL-14	Findings:	190. MG/L
Chemical:	SULFATE		
Sample Collected:	02-JUL-14	Findings:	0.56 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	02-JUL-14	Findings:	3.3 UG/L
Chemical:	VANADIUM		
Sample Collected:	02-JUL-14	Findings:	30. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	02-JUL-14	Findings:	0.46 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02-JUL-14	Findings:	36. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	02-JUL-14	Findings:	0.76 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	02-JUL-14	Findings:	650. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02-JUL-14	Findings:	1.2
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	02-JUL-14	Findings:	26. MG/L
Chemical:	NITRATE (AS NO ₃)		
Sample Collected:	12-AUG-11	Findings:	5. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	28-SEP-11	Findings:	33.2 PCI/L
Chemical:	GROSS ALPHA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	28-SEP-11	Findings:	3.12 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	28-SEP-11	Findings:	49. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	28-SEP-11	Findings:	0.95 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	28-SEP-11	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-SEP-11	Findings:	5.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	20-OCT-11	Findings:	51. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	02-JUL-14	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	02-JUL-14	Findings:	5900. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	02-JUL-14	Findings:	5.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	02-JUL-14	Findings:	0.71 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-AUG-14	Findings:	27. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	21-AUG-14	Findings:	0.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	21-AUG-14	Findings:	40. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	21-AUG-14	Findings:	0.54 UG/L
Chemical:	CHLOROETHANE		
Sample Collected:	21-AUG-14	Findings:	0.92 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	21-AUG-14	Findings:	0.53 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-AUG-14	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-14	Findings:	4.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	20-OCT-11	Findings:	0.9 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	20-OCT-11	Findings:	0.83 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	20-OCT-11	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-OCT-11	Findings:	5. UG/L
Chemical:	PERCHLORATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	17-NOV-11	Findings:	36.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	17-NOV-11	Findings:	4.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	17-NOV-11	Findings:	46. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-NOV-11	Findings:	0.55 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	17-NOV-11	Findings:	0.93 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-NOV-11	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-14	Findings:	0.36 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	18-SEP-14	Findings:	20. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	18-SEP-14	Findings:	0.54 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	18-SEP-14	Findings:	38. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	18-SEP-14	Findings:	0.76 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	18-SEP-14	Findings:	0.64 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-SEP-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-SEP-14	Findings:	0.22 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	09-OCT-14	Findings:	30. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-OCT-14	Findings:	0.46 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-OCT-14	Findings:	49. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	08-DEC-11	Findings:	34.9 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	08-DEC-11	Findings:	4.38 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08-DEC-11	Findings:	42. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	08-DEC-11	Findings:	0.51 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	08-DEC-11	Findings:	0.81 UG/L
Chemical:	TRICHLOROETHYLENE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08-DEC-11	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-DEC-11	Findings:	4.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	11-JAN-12	Findings:	35. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-OCT-14	Findings:	0.63 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-OCT-14	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-OCT-14	Findings:	0.71 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	19-NOV-14	Findings:	29. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	19-NOV-14	Findings:	0.53 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	19-NOV-14	Findings:	26. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	19-NOV-14	Findings:	0.68 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	19-NOV-14	Findings:	0.51 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-NOV-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-JAN-12	Findings:	5.16 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11-JAN-12	Findings:	910. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11-JAN-12	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	11-JAN-12	Findings:	240. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	11-JAN-12	Findings:	290. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11-JAN-12	Findings:	410. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	11-JAN-12	Findings:	130. MG/L
Chemical:	CALCIUM		
Sample Collected:	11-JAN-12	Findings:	22. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11-JAN-12	Findings:	40. MG/L
Chemical:	SODIUM		
Sample Collected:	11-JAN-12	Findings:	3.9 MG/L
Chemical:	POTASSIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11-JAN-12	Findings:	34. MG/L
Chemical:	CHLORIDE		
Sample Collected:	11-JAN-12	Findings:	200. MG/L
Chemical:	SULFATE		
Sample Collected:	11-JAN-12	Findings:	0.59 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	11-JAN-12	Findings:	3.1 UG/L
Chemical:	VANADIUM		
Sample Collected:	11-JAN-12	Findings:	42. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	11-JAN-12	Findings:	0.65 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	11-JAN-12	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-JAN-12	Findings:	630. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11-JAN-12	Findings:	1.4
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	11-JAN-12	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-JAN-12	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	19-NOV-14	Findings:	0.7 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	03-JUN-15	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03-JUN-15	Findings:	7.7
Chemical:	PH, LABORATORY		
Sample Collected:	03-JUN-15	Findings:	230. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	03-JUN-15	Findings:	280. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03-JUN-15	Findings:	350. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	03-JUN-15	Findings:	110. MG/L
Chemical:	CALCIUM		
Sample Collected:	03-JUN-15	Findings:	18. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03-JUN-15	Findings:	42. MG/L
Chemical:	SODIUM		
Sample Collected:	03-JUN-15	Findings:	3.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03-JUN-15	Findings:	34. MG/L
Chemical:	CHLORIDE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-JUN-15	Findings:	140. MG/L
Chemical:	SULFATE		
Sample Collected:	03-JUN-15	Findings:	0.55 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	03-JUN-15	Findings:	3.4 UG/L
Chemical:	VANADIUM		
Sample Collected:	03-JUN-15	Findings:	28. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03-JUN-15	Findings:	0.39 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03-JUN-15	Findings:	30. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	03-JUN-15	Findings:	0.98 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	03-JUN-15	Findings:	550. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-JUN-15	Findings:	1.2
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	03-JUN-15	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-JAN-12	Findings:	5900. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	11-JAN-12	Findings:	4.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	02-FEB-12	Findings:	25.2 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	02-FEB-12	Findings:	1.09 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02-FEB-12	Findings:	40. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	02-FEB-12	Findings:	0.97 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	02-FEB-12	Findings:	0.82 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-FEB-12	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-FEB-12	Findings:	5.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	01-MAR-12	Findings:	24.5 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	01-MAR-12	Findings:	3.83 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01-MAR-12	Findings:	43. PCI/L
Chemical:	URANIUM (PCI/L)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01-MAR-12	Findings:	0.75 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	03-JUN-15	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	03-JUN-15	Findings:	6700. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03-JUN-15	Findings:	6.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	03-JUN-15	Findings:	1.4 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	10-JUL-15	Findings:	43. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10-JUL-15	Findings:	0.48 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-JUL-15	Findings:	47. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-JUL-15	Findings:	0.58 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-JUL-15	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-MAR-12	Findings:	0.94 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-MAR-12	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-MAR-12	Findings:	4.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	24-MAY-12	Findings:	19.4 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	24-MAY-12	Findings:	1.38 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-MAY-12	Findings:	30. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	24-MAY-12	Findings:	1.1 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	24-MAY-12	Findings:	0.76 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	24-MAY-12	Findings:	36. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-15	Findings:	1.3 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	09-SEP-15	Findings:	36. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-SEP-15	Findings:	0.44 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09-SEP-15	Findings:	30. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-SEP-15	Findings:	0.92 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	09-SEP-15	Findings:	28. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-SEP-15	Findings:	6.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-SEP-15	Findings:	1.4 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	01-OCT-15	Findings:	34. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	01-OCT-15	Findings:	0.43 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01-OCT-15	Findings:	44. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	24-MAY-12	Findings:	12. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	24-MAY-12	Findings:	8.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	25-MAY-12	Findings:	800. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	25-MAY-12	Findings:	8.2
Chemical:	PH, LABORATORY		
Sample Collected:	25-MAY-12	Findings:	230. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	25-MAY-12	Findings:	280. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	25-MAY-12	Findings:	3.1 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	25-MAY-12	Findings:	340. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	25-MAY-12	Findings:	110. MG/L
Chemical:	CALCIUM		
Sample Collected:	25-MAY-12	Findings:	18. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	25-MAY-12	Findings:	40. MG/L
Chemical:	SODIUM		
Sample Collected:	25-MAY-12	Findings:	3.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	25-MAY-12	Findings:	34. MG/L
Chemical:	CHLORIDE		
Sample Collected:	25-MAY-12	Findings:	120. MG/L
Chemical:	SULFATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	25-MAY-12	Findings:	0.65 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	25-MAY-12	Findings:	4. UG/L
Chemical:	VANADIUM		
Sample Collected:	25-MAY-12	Findings:	510. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	25-MAY-12	Findings:	1.7
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	25-MAY-12	Findings:	38. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-MAY-12	Findings:	0.12 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	25-MAY-12	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	25-MAY-12	Findings:	8600. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	21-JUN-12	Findings:	29.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	21-JUN-12	Findings:	2.44 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	21-JUN-12	Findings:	40. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	01-OCT-15	Findings:	0.62 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-OCT-15	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-OCT-15	Findings:	4.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	01-OCT-15	Findings:	1.5 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	17-DEC-15	Findings:	5.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	17-DEC-15	Findings:	35. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	17-DEC-15	Findings:	0.44 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	17-DEC-15	Findings:	35. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-DEC-15	Findings:	0.75 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	17-DEC-15	Findings:	0.65 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-DEC-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	21-JUN-12	Findings:	0.84 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-JUN-12	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-JUN-12	Findings:	4.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	26-JUL-12	Findings:	34.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	26-JUL-12	Findings:	2.33 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	26-JUL-12	Findings:	43. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	26-JUL-12	Findings:	0.85 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	26-JUL-12	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-DEC-15	Findings:	4.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	17-DEC-15	Findings:	1.5 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	12-FEB-16	Findings:	5.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-FEB-16	Findings:	45. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12-FEB-16	Findings:	0.48 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-FEB-16	Findings:	42. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-FEB-16	Findings:	0.56 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	23-AUG-12	Findings:	39. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	23-AUG-12	Findings:	4.58 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	23-AUG-12	Findings:	2.7 UG/L
Chemical:	CHROMIUM, HEXVALENT		
Sample Collected:	23-AUG-12	Findings:	43. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	23-AUG-12	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-SEP-12	Findings:	34.2 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	14-SEP-12	Findings:	1.25 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	14-SEP-12	Findings:	2.5 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	14-SEP-12	Findings:	42. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	14-SEP-12	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-SEP-12	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-SEP-12	Findings:	0.61 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	12-FEB-16	Findings:	4.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	12-FEB-16	Findings:	1.4 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-SEP-12	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-OCT-12	Findings:	40. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05-OCT-12	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-OCT-12	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		

208
WSW
1/2 - 1 Mile
Lower

CA WELLS CADW60000003073

Objectid: 3073
 Latitude: 34.0686
 Longitude: -117.2979
 Site code: 340686N1172979W001
 State well numbe: 01S04W21J003S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.04'
 Basin desc: Rialto-Colton
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000003073

AV209
West
1/2 - 1 Mile
Lower

CA WELLS CADW60000017114

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid: 17114
 Latitude: 34.0725
 Longitude: -117.299
 Site code: 340725N1172990W001
 State well numbe: 01S04W21H008S
 Local well name: "
 Well use id: 6
 Well use descrip: Unknown
 County id: 36
 County name: San Bernardino
 Basin code: '8-2.06'
 Basin desc: Bunker Hill
 Dwr region id: 80238
 Dwr region: Southern Region Office
 Site id: CADW60000017114

210
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40000140528

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340414117175201
 Monloc name: 001S004W21J004S
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: 18070203 Drainagearea value: Not Reported
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported
 Contrib drainagearea units: Not Reported Latitude: 34.0705685
 Longitude: -117.2986541 Sourcemap scale: Not Reported
 Horiz Acc measure: 1 Horiz Acc measure units: seconds
 Horiz Collection method: Interpolated from map
 Horiz coord refsys: NAD83 Vert measure val: 967.00
 Vert measure units: feet Vertacc measure val: .1
 Vert accmeasure units: feet
 Vertcollection method: Level or other surveying method
 Vert coord refsys: NGVD29 Countrycode: US
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Not Reported
 Construction date: 19630101 Welldepth: 82
 Welldepth units: ft Wellholedepth: 124
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 7

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-03-30	14.70		1969-11-21	13.00	
1969-04-27	11.10		1969-01-02	43.70	
1968-05-23	35.00		1967-11-30	38.80	
1964-01-07	33.69				

211
NE
1/2 - 1 Mile
Higher

FED USGS USGS40000140790

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340506117161901		
Monloc name:	001S004W14F009S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0850126
Longitude:	-117.27282	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1026.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19510101	Welldepth:	118
Welldepth units:	ft	Wellholedepth:	128
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1951-07-26	27.00	

AY212
ESE
1/2 - 1 Mile
Higher

FED USGS USGS40000140449

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340401117160101		
Monloc name:	001S004W23K002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0669577
Longitude:	-117.2678197	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1041.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported
 Construction date: 19290101 Welldepth: 303
 Welldepth units: ft Wellholedepth: 303
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 0

AX213
NNW
1/2 - 1 Mile
Lower

FED USGS USGS40000140816

Org. Identifier: USGS-CA
 Formal name: USGS California Water Science Center
 Monloc Identifier: USGS-340510117172001
 Monloc name: 001S004W15F00AS
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: 18070203 Drainagearea value: Not Reported
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported
 Contrib drainagearea units: Not Reported Latitude: 34.0861235
 Longitude: -117.289765 Sourcemap scale: Not Reported
 Horiz Acc measure: 1 Horiz Acc measure units: seconds
 Horiz Collection method: Interpolated from map
 Horiz coord refsys: NAD83 Vert measure val: 991.00
 Vert measure units: feet Vertacc measure val: .1
 Vert accmeasure units: feet
 Vertcollection method: Level or other surveying method
 Vert coord refsys: NGVD29 Countrycode: US
 Aquifername: California Coastal Basin aquifers
 Formation type: Not Reported
 Aquifer type: Not Reported
 Construction date: 19660101 Welldepth: 955
 Welldepth units: ft Wellholedepth: 975
 Wellholedepth units: ft

Ground-water levels, Number of Measurements: 32

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1972-07-24	72.71		1972-06-22	53.69	
1972-05-22	47.30		1972-05-03	47.99	
1972-04-24	50.58		1972-03-22	42.47	
1972-02-23	39.87		1972-01-26	29.62	
1972-01-05	45.09		1971-12-30	34.88	
1971-11-22	46.99		1971-11-18	47.24	
1971-10-21	45.78		1971-09-02	59.76	
1971-08-18	41.19		1971-06-15	49.29	
1971-06-01	49.00		1971-05-05	32.99	
1971-03-10	31.89		1971-02-03	32.29	
1970-10-05	74.49		1970-08-17	65.89	
1970-07-01	64.49		1970-05-15	67.29	
1970-03-23	30.79		1969-11-13	53.49	
1969-04-24	70.39		1969-01-09	70.79	
1968-03-21	58.79		1967-11-29	62.09	
1967-04-27	65.49		1966-12-13	63.79	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

214
NW
1/2 - 1 Mile
Lower

FED USGS USGS40000140754

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340457117174001		
Monloc name:	001S004W15M004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0825125
Longitude:	-117.2953208	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	980.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	90
Welldepth units:	ft	Wellholedepth:	90
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1963-08-29	34.00		1963-06-13	30.00	
1963-03-07	28.80		1962-12-13	30.60	

215
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000140331

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340337117163501		
Monloc name:	001S004W26D001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0602913
Longitude:	-117.2772644	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1025.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	554
Construction date:	Not Reported	Wellholeddepth:	554
Welldepth units:	ft		
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

216
WNW
1/2 - 1 Mile
Lower

FED USGS USGS40000140709

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340444117175001		
Monloc name:	001S004W16J002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0789015
Longitude:	-117.2980986	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	985.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	174
Welldepth units:	ft	Wellholeddepth:	175
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

AU217
NNE
1/2 - 1 Mile
Higher

CA WELLS CADW60000018156

Objectid:	18156
Latitude:	34.0864
Longitude:	-117.2751
Site code:	340864N1172751W001
State well numbe:	01S04W14F004S
Local well name:	"
Well use id:	6
Well use descrip:	Unknown
County id:	36
County name:	San Bernardino
Basin code:	'8-2.06'
Basin desc:	Bunker Hill
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000018156

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

AY218
ESE
1/2 - 1 Mile
Higher

CA WELLS 934

Water System Information:

Prime Station Code:	01S/04W-23G03 S	User ID:	WAT
FRDS Number:	3310031038	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340400.0 1171600.0	Precision:	Undefined
Source Name:	GAGE WELL 66-1		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		
Sample Collected:	04-APR-13	Findings:	9.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-APR-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	01-MAY-13	Findings:	5. UNITS
Chemical:	COLOR		
Sample Collected:	01-MAY-13	Findings:	670. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	01-MAY-13	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	01-MAY-13	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	01-MAY-13	Findings:	210. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	01-MAY-13	Findings:	240. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	01-MAY-13	Findings:	77. MG/L
Chemical:	CALCIUM		
Sample Collected:	01-MAY-13	Findings:	12. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	01-MAY-13	Findings:	41. MG/L
Chemical:	SODIUM		
Sample Collected:	01-MAY-13	Findings:	2.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	01-MAY-13	Findings:	40. MG/L
Chemical:	CHLORIDE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01-MAY-13	Findings:	63. MG/L
Chemical:	SULFATE		
Sample Collected:	01-MAY-13	Findings:	0.85 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	01-MAY-13	Findings:	6.1 UG/L
Chemical:	VANADIUM		
Sample Collected:	01-MAY-13	Findings:	3.9e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	01-MAY-13	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-MAY-13	Findings:	410. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	01-MAY-13	Findings:	1.2
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	07-AUG-15	Findings:	14. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	17-SEP-15	Findings:	5.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	17-SEP-15	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	17-SEP-15	Findings:	7.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	17-SEP-15	Findings:	4.9e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	17-SEP-15	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-SEP-15	Findings:	50. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-SEP-15	Findings:	13. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	17-SEP-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	22-OCT-15	Findings:	11. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	01-MAY-13	Findings:	48. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-MAY-13	Findings:	0.33 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	01-MAY-13	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	01-MAY-13	Findings:	11000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	01-MAY-13	Findings:	10. UG/L
Chemical:	PERCHLORATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07-JUN-13	Findings:	5. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07-JUN-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07-JUN-13	Findings:	7.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	07-JUN-13	Findings:	3.9e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	07-JUN-13	Findings:	0.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JUN-13	Findings:	45. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-OCT-15	Findings:	4.9e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	22-OCT-15	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-OCT-15	Findings:	49. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-OCT-15	Findings:	12. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	27-JAN-16	Findings:	11. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	27-JAN-16	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	27-JAN-16	Findings:	6.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	07-JUN-13	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	07-JUN-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	03-JUL-13	Findings:	3.8e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	03-JUL-13	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-JUL-13	Findings:	45. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JUL-13	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-AUG-13	Findings:	7.5 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06-AUG-13	Findings:	3.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06-AUG-13	Findings:	7.8 PCI/L
Chemical:	URANIUM (PCI/L)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	27-JAN-16	Findings:	5.3e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	27-JAN-16	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	27-JAN-16	Findings:	14. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	27-JAN-16	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	11-MAR-16	Findings:	11. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	11-MAR-16	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11-MAR-16	Findings:	7.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	11-MAR-16	Findings:	4.7e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	11-MAR-16	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-AUG-13	Findings:	3.9e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	06-AUG-13	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-AUG-13	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-AUG-13	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-AUG-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	05-SEP-13	Findings:	3.6e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	05-SEP-13	Findings:	0.92 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-SEP-13	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-MAR-16	Findings:	12. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	11-MAR-16	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	08-APR-16	Findings:	11. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	08-APR-16	Findings:	4.7e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	08-APR-16	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08-APR-16	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-MAY-16	Findings:	11. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	05-SEP-13	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	03-OCT-13	Findings:	4.1e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	03-OCT-13	Findings:	0.96 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-OCT-13	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-OCT-13	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-MAY-16	Findings:	5.1e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	06-MAY-16	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-MAY-16	Findings:	13. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	29-APR-11	Findings:	580. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	29-APR-11	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	29-APR-11	Findings:	160. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	29-APR-11	Findings:	190. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	29-APR-11	Findings:	230. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	29-APR-11	Findings:	72. MG/L
Chemical:	CALCIUM		
Sample Collected:	29-APR-11	Findings:	11. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	29-APR-11	Findings:	31. MG/L
Chemical:	SODIUM		
Sample Collected:	29-APR-11	Findings:	2.6 MG/L
Chemical:	POTASSIUM		
Sample Collected:	29-APR-11	Findings:	27. MG/L
Chemical:	CHLORIDE		
Sample Collected:	29-APR-11	Findings:	50. MG/L
Chemical:	SULFATE		
Sample Collected:	29-APR-11	Findings:	0.91 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	29-APR-11	Findings:	5.8 UG/L
Chemical:	VANADIUM		
Sample Collected:	29-APR-11	Findings:	58. UG/L
Chemical:	ALUMINUM		
Sample Collected:	29-APR-11	Findings:	4.4 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	29-APR-11	Findings:	2.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	29-APR-11	Findings:	6.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	29-APR-11	Findings:	3.9e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	29-APR-11	Findings:	0.79 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	29-APR-11	Findings:	360. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	29-APR-11	Findings:	1.1
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	29-APR-11	Findings:	44. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-NOV-13	Findings:	3.9e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	01-NOV-13	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-NOV-13	Findings:	47. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-NOV-13	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	07-MAR-14	Findings:	5.7 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07-MAR-14	Findings:	3.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07-MAR-14	Findings:	6.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	07-MAR-14	Findings:	3.7e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	07-MAR-14	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	29-APR-11	Findings:	3700. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	29-APR-11	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	29-APR-11	Findings:	10000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	29-APR-11	Findings:	12. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	29-APR-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	12-MAY-11	Findings:	540. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12-MAY-11	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	12-MAY-11	Findings:	140. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	12-MAY-11	Findings:	180. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12-MAY-11	Findings:	230. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	12-MAY-11	Findings:	73. MG/L
Chemical:	CALCIUM		
Sample Collected:	12-MAY-11	Findings:	12. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12-MAY-11	Findings:	33. MG/L
Chemical:	SODIUM		
Sample Collected:	12-MAY-11	Findings:	2.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12-MAY-11	Findings:	29. MG/L
Chemical:	CHLORIDE		
Sample Collected:	12-MAY-11	Findings:	51. MG/L
Chemical:	SULFATE		
Sample Collected:	12-MAY-11	Findings:	110. UG/L
Chemical:	ALUMINUM		
Sample Collected:	12-MAY-11	Findings:	0.82 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-MAY-11	Findings:	370. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12-MAY-11	Findings:	1.1
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	12-MAY-11	Findings:	45. MG/L
Chemical:	NITRATE (AS NO ₃)		
Sample Collected:	12-MAY-11	Findings:	2700. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	07-MAR-14	Findings:	12. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	07-MAR-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	04-APR-14	Findings:	3.7e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04-APR-14	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-APR-14	Findings:	12. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	12-MAY-11	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	12-MAY-11	Findings:	10000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	12-MAY-11	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	13-MAY-11	Findings:	4.4e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	08-JUN-11	Findings:	600. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08-JUN-11	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	08-JUN-11	Findings:	160. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	08-JUN-11	Findings:	200. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08-JUN-11	Findings:	230. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	08-JUN-11	Findings:	75. MG/L
Chemical:	CALCIUM		
Sample Collected:	08-JUN-11	Findings:	11. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08-JUN-11	Findings:	30. MG/L
Chemical:	SODIUM		
Sample Collected:	08-JUN-11	Findings:	2.4 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08-JUN-11	Findings:	30. MG/L
Chemical:	CHLORIDE		
Sample Collected:	08-JUN-11	Findings:	52. MG/L
Chemical:	SULFATE		
Sample Collected:	08-JUN-11	Findings:	170. UG/L
Chemical:	ALUMINUM		
Sample Collected:	08-JUN-11	Findings:	5.1e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	08-JUN-11	Findings:	2.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-JUN-11	Findings:	370. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08-JUN-11	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08-JUN-11	Findings:	4200. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	23-MAY-14	Findings:	3.6e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	23-MAY-14	Findings:	0.69 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	23-MAY-14	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-MAY-14	Findings:	9.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	29-MAY-14	Findings:	670. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	29-MAY-14	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	29-MAY-14	Findings:	160. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	29-MAY-14	Findings:	190. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	29-MAY-14	Findings:	240. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	29-MAY-14	Findings:	77. MG/L
Chemical:	CALCIUM		
Sample Collected:	29-MAY-14	Findings:	12. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	29-MAY-14	Findings:	42. MG/L
Chemical:	SODIUM		
Sample Collected:	29-MAY-14	Findings:	2.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	29-MAY-14	Findings:	39. MG/L
Chemical:	CHLORIDE		
Sample Collected:	29-MAY-14	Findings:	61. MG/L
Chemical:	SULFATE		
Sample Collected:	29-MAY-14	Findings:	0.9 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	29-MAY-14	Findings:	5.8 UG/L
Chemical:	VANADIUM		
Sample Collected:	29-MAY-14	Findings:	3.1e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	29-MAY-14	Findings:	420. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	29-MAY-14	Findings:	1.
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	29-MAY-14	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	29-MAY-14	Findings:	4900. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	29-MAY-14	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	08-JUN-11	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	08-JUN-11	Findings:	10000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	08-JUN-11	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-JUL-11	Findings:	4.6e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	14-JUL-11	Findings:	0.86 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JUL-11	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUL-11	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	05-AUG-11	Findings:	5.6 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	05-AUG-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05-AUG-11	Findings:	6. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	29-MAY-14	Findings:	10000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	02-JUL-14	Findings:	6. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	02-JUL-14	Findings:	3.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02-JUL-14	Findings:	7.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	02-JUL-14	Findings:	4.3e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	02-JUL-14	Findings:	0.73 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-JUL-14	Findings:	47. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JUL-14	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	02-JUL-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	05-AUG-11	Findings:	4.8e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05-AUG-11	Findings:	0.93 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-AUG-11	Findings:	48. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-AUG-11	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	05-AUG-11	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	14-JUN-12	Findings:	610. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	14-JUN-12	Findings:	8.2
Chemical:	PH, LABORATORY		
Sample Collected:	14-JUN-12	Findings:	150. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	14-JUN-12	Findings:	180. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	14-JUN-12	Findings:	230. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	14-JUN-12	Findings:	73. MG/L
Chemical:	CALCIUM		
Sample Collected:	14-JUN-12	Findings:	12. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	14-JUN-12	Findings:	36. MG/L
Chemical:	SODIUM		
Sample Collected:	14-JUN-12	Findings:	2.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	14-JUN-12	Findings:	33. MG/L
Chemical:	CHLORIDE		
Sample Collected:	14-JUN-12	Findings:	52. MG/L
Chemical:	SULFATE		
Sample Collected:	14-JUN-12	Findings:	0.92 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	14-JUN-12	Findings:	5.4 UG/L
Chemical:	VANADIUM		
Sample Collected:	14-JUN-12	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	14-JUN-12	Findings:	2.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-JUN-12	Findings:	6.1 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	15-AUG-14	Findings:	3.3e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	15-AUG-14	Findings:	0.82 UG/L
Chemical:	TRICHLOROETHYLENE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	15-AUG-14	Findings:	47. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-AUG-14	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	25-SEP-14	Findings:	5.2 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	25-SEP-14	Findings:	3.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	25-SEP-14	Findings:	7.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	25-SEP-14	Findings:	3.2e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	25-SEP-14	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	25-SEP-14	Findings:	47. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUN-12	Findings:	4.8e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	14-JUN-12	Findings:	380. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-JUN-12	Findings:	1.3
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	14-JUN-12	Findings:	45. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUN-12	Findings:	0.17 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	14-JUN-12	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	14-JUN-12	Findings:	10000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	14-JUN-12	Findings:	13. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-JUN-12	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	02-AUG-12	Findings:	6.58 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	02-AUG-12	Findings:	1.96 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02-AUG-12	Findings:	7.3 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	25-SEP-14	Findings:	12. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	25-SEP-14	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	22-OCT-14	Findings:	3.7e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	22-OCT-14	Findings:	0.99 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-OCT-14	Findings:	45. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-OCT-14	Findings:	12. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	02-AUG-12	Findings:	3.3e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	02-AUG-12	Findings:	0.56 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-AUG-12	Findings:	45. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-AUG-12	Findings:	12. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	13-SEP-12	Findings:	8.8 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	13-SEP-12	Findings:	4.e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	13-SEP-12	Findings:	0.71 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-SEP-12	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-NOV-14	Findings:	3.7e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	14-NOV-14	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-NOV-14	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-NOV-14	Findings:	12. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-DEC-14	Findings:	3.6e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	09-DEC-14	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-DEC-14	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-SEP-12	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	18-OCT-12	Findings:	3.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	18-OCT-12	Findings:	3.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	18-OCT-12	Findings:	7.8 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	18-OCT-12	Findings:	3.6e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	18-OCT-12	Findings:	0.85 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-OCT-12	Findings:	45. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-OCT-12	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	18-OCT-12	Findings:	3.1 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	09-DEC-14	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	08-JAN-15	Findings:	4.e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	08-JAN-15	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-JAN-15	Findings:	47. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-JAN-15	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	20-NOV-12	Findings:	3.7e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	20-NOV-12	Findings:	0.96 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	20-NOV-12	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-NOV-12	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	13-DEC-12	Findings:	4.1e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	13-DEC-12	Findings:	0.83 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-DEC-12	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-FEB-15	Findings:	4.2e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	06-FEB-15	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-FEB-15	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-FEB-15	Findings:	12. UG/L
Chemical:	PERCHLORATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04-MAR-15	Findings:	6.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	04-MAR-15	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04-MAR-15	Findings:	8.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	04-MAR-15	Findings:	3.6e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	04-MAR-15	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-MAR-15	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-DEC-12	Findings:	9.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	10-JAN-13	Findings:	3.7e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	10-JAN-13	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-JAN-13	Findings:	45. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JAN-13	Findings:	9.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-MAR-15	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-MAR-15	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	02-APR-15	Findings:	4.5e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	02-APR-15	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-APR-15	Findings:	47. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-APR-15	Findings:	12. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	01-FEB-13	Findings:	3.6e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	01-FEB-13	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-FEB-13	Findings:	44. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-FEB-13	Findings:	9.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-APR-13	Findings:	8.6 PCI/L
Chemical:	GROSS ALPHA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04-APR-13	Findings:	3.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04-APR-13	Findings:	7.1 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	04-APR-13	Findings:	3.6e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	04-APR-13	Findings:	0.86 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-APR-13	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-MAY-15	Findings:	4.7e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	07-MAY-15	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-MAY-15	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-MAY-15	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	07-AUG-15	Findings:	5.5e-002 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		
Sample Collected:	07-AUG-15	Findings:	0.82 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-AUG-15	Findings:	49. MG/L
Chemical:	NITRATE (AS NO3)		

**BA219
South
1/2 - 1 Mile
Higher**

FED USGS

USGS40000140321

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340334117165001		
Monloc name:	001S004W27A015S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0594579
Longitude:	-117.2814312	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1010.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	125
Construction date:	Not Reported	Wellholeddepth:	125
Welldepth units:	ft		
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

220
South
1/2 - 1 Mile
Higher

FED USGS USGS40000140322

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340334117165801		
Monloc name:	001S004W27B006S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0594579
Longitude:	-117.2836535	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1004.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	320
Welldepth units:	ft	Wellholeddepth:	320
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

BB221
East
1/2 - 1 Mile
Higher

FED USGS USGS40000140579

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340423117155201		
Monloc name:	001S004W23H001S		
Monloc type:	Well		
Monloc desc:	NAWQA DATA ENTRY COM + VER 06/21/2000 SNHAMLIN		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0732222
Longitude:	-117.2652917	Sourcemap scale:	24000
Horiz Acc measure:	.5	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	1045
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Cenozoic Erathem		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Unconfined single aquifer	Welldepth:	396
Construction date:	Not Reported	Wellholedepth:	Not Reported
Welldepth units:	ft		
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-04-27	102.6		2000-04-26	67	

BB222
East
1/2 - 1 Mile
Higher

CA WELLS 935

Water System Information:

Prime Station Code:	01S/04W-23H01 S	User ID:	WAT
FRDS Number:	3310031028	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340425.1 1171552.6	Precision:	10 Feet (1/10 Second)
Source Name:	GAGE WELL 27-1		
System Number:	3310031		
System Name:	Riverside, City of		
Organization That Operates System:	3900 MAIN STREET RIVERSIDE, CA 92522		
Pop Served:	245000	Connections:	58586
Area Served:	RIVERSIDE		
Sample Collected:	26-JUL-12	Findings:	1.2 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	26-JUL-12	Findings:	0.51 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	26-JUL-12	Findings:	28. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	26-JUL-12	Findings:	12. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	26-JUL-12	Findings:	6.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	23-AUG-12	Findings:	19.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	23-AUG-12	Findings:	3.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	23-AUG-12	Findings:	3.6 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	23-AUG-12	Findings:	30. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	23-AUG-12	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	23-AUG-12	Findings:	5.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-SEP-12	Findings:	22.5 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	14-SEP-12	Findings:	1.01 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-SEP-12	Findings:	3.4 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	14-SEP-12	Findings:	29. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	14-SEP-12	Findings:	1. UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	14-SEP-12	Findings:	0.59 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-SEP-12	Findings:	28. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-SEP-12	Findings:	14. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	14-SEP-12	Findings:	6. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	21-SEP-12	Findings:	1.5 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	21-SEP-12	Findings:	0.53 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-SEP-12	Findings:	13. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	05-OCT-12	Findings:	28. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05-OCT-12	Findings:	0.96 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	05-OCT-12	Findings:	0.57 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-OCT-12	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-OCT-12	Findings:	13. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	05-OCT-12	Findings:	5.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	10-JAN-13	Findings:	24.5 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10-JAN-13	Findings:	1.14 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-JAN-13	Findings:	34. PCI/L
Chemical:	URANIUM (PCI/L)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-JAN-13	Findings:	1.2 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	10-JAN-13	Findings:	0.72 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-JAN-13	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JAN-13	Findings:	12. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	10-JAN-13	Findings:	5.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	24-MAY-13	Findings:	16.1 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	24-MAY-13	Findings:	1.22 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-MAY-13	Findings:	950. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	24-MAY-13	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	24-MAY-13	Findings:	260. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	24-MAY-13	Findings:	320. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	24-MAY-13	Findings:	440. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	24-MAY-13	Findings:	130. MG/L
Chemical:	CALCIUM		
Sample Collected:	24-MAY-13	Findings:	28. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	24-MAY-13	Findings:	57. MG/L
Chemical:	SODIUM		
Sample Collected:	24-MAY-13	Findings:	4.4 MG/L
Chemical:	POTASSIUM		
Sample Collected:	24-MAY-13	Findings:	44. MG/L
Chemical:	CHLORIDE		
Sample Collected:	24-MAY-13	Findings:	160. MG/L
Chemical:	SULFATE		
Sample Collected:	24-MAY-13	Findings:	0.54 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	24-MAY-13	Findings:	3.5 UG/L
Chemical:	VANADIUM		
Sample Collected:	24-MAY-13	Findings:	30. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	24-MAY-13	Findings:	0.69 UG/L
Chemical:	1,1-DICHLOROETHYLENE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	24-MAY-13	Findings:	640. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	24-MAY-13	Findings:	1.5
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	24-MAY-13	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-MAY-13	Findings:	18. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	24-MAY-13	Findings:	0.16 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	24-MAY-13	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	24-MAY-13	Findings:	7600. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	24-MAY-13	Findings:	7. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	20-JUN-13	Findings:	19.8 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	20-JUN-13	Findings:	3.21 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	20-JUN-13	Findings:	26. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	20-JUN-13	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-JUN-13	Findings:	11. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	20-JUN-13	Findings:	6.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	18-JUL-13	Findings:	25.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	18-JUL-13	Findings:	3.67 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	18-JUL-13	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	18-JUL-13	Findings:	1.4 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	18-JUL-13	Findings:	0.52 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-JUL-13	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-JUL-13	Findings:	14. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	18-JUL-13	Findings:	6.3 UG/L
Chemical:	PERCHLORATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09-MAY-14	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	09-MAY-14	Findings:	920. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09-MAY-14	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	09-MAY-14	Findings:	240. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	09-MAY-14	Findings:	300. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09-MAY-14	Findings:	2.4 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	09-MAY-14	Findings:	340. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	09-MAY-14	Findings:	100. MG/L
Chemical:	CALCIUM		
Sample Collected:	09-MAY-14	Findings:	22. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09-MAY-14	Findings:	58. MG/L
Chemical:	SODIUM		
Sample Collected:	09-MAY-14	Findings:	3.6 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09-MAY-14	Findings:	43. MG/L
Chemical:	CHLORIDE		
Sample Collected:	09-MAY-14	Findings:	100. MG/L
Chemical:	SULFATE		
Sample Collected:	09-MAY-14	Findings:	0.61 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	09-MAY-14	Findings:	3.8 UG/L
Chemical:	VANADIUM		
Sample Collected:	09-MAY-14	Findings:	19. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-MAY-14	Findings:	0.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-MAY-14	Findings:	19. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-MAY-14	Findings:	2.5 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	09-MAY-14	Findings:	550. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09-MAY-14	Findings:	1.5
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	09-MAY-14	Findings:	39. MG/L
Chemical:	NITRATE (AS NO ₃)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09-MAY-14	Findings:	3900. UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	09-MAY-14	Findings:	17. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	09-MAY-14	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	09-MAY-14	Findings:	8800. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	09-MAY-14	Findings:	8.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-MAY-14	Findings:	0.32 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	10-JUL-14	Findings:	15. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10-JUL-14	Findings:	0.46 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-JUL-14	Findings:	25. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-JUL-14	Findings:	1.6 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	10-JUL-14	Findings:	32. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-14	Findings:	20. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	10-JUL-14	Findings:	7. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	10-JUL-14	Findings:	0.34 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-AUG-14	Findings:	15. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	21-AUG-14	Findings:	0.48 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	21-AUG-14	Findings:	27. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	21-AUG-14	Findings:	0.65 UG/L
Chemical:	CHLOROETHANE		
Sample Collected:	21-AUG-14	Findings:	1.8 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	21-AUG-14	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-14	Findings:	18. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	21-AUG-14	Findings:	6.7 UG/L
Chemical:	PERCHLORATE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	21-AUG-14	Findings:	0.22 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	18-SEP-14	Findings:	17. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	18-SEP-14	Findings:	0.49 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	18-SEP-14	Findings:	25. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	18-SEP-14	Findings:	2.2 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	18-SEP-14	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-SEP-14	Findings:	14. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	18-SEP-14	Findings:	6.3 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	18-SEP-14	Findings:	0.36 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	09-OCT-14	Findings:	18. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-OCT-14	Findings:	0.38 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-OCT-14	Findings:	25. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-OCT-14	Findings:	1.4 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	09-OCT-14	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-OCT-14	Findings:	12. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	09-OCT-14	Findings:	6. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-OCT-14	Findings:	0.68 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-NOV-14	Findings:	24. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	21-NOV-14	Findings:	0.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	21-NOV-14	Findings:	25. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	21-NOV-14	Findings:	1.9 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	21-NOV-14	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	21-NOV-14	Findings:	18. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	21-NOV-14	Findings:	6.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	21-NOV-14	Findings:	0.68 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	03-JUN-15	Findings:	800. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03-JUN-15	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	03-JUN-15	Findings:	230. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	03-JUN-15	Findings:	280. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03-JUN-15	Findings:	320. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	03-JUN-15	Findings:	95. MG/L
Chemical:	CALCIUM		
Sample Collected:	03-JUN-15	Findings:	20. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03-JUN-15	Findings:	50. MG/L
Chemical:	SODIUM		
Sample Collected:	03-JUN-15	Findings:	3.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03-JUN-15	Findings:	39. MG/L
Chemical:	CHLORIDE		
Sample Collected:	03-JUN-15	Findings:	97. MG/L
Chemical:	SULFATE		
Sample Collected:	03-JUN-15	Findings:	0.6 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	03-JUN-15	Findings:	3.9 UG/L
Chemical:	VANADIUM		
Sample Collected:	03-JUN-15	Findings:	20. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03-JUN-15	Findings:	0.35 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03-JUN-15	Findings:	17. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	03-JUN-15	Findings:	2.3 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	03-JUN-15	Findings:	500. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-JUN-15	Findings:	1.2
Chemical:	LANGELIER INDEX @ 60 C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-JUN-15	Findings:	38. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JUN-15	Findings:	30. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	03-JUN-15	Findings:	1.7 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	03-JUN-15	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	03-JUN-15	Findings:	8600. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03-JUN-15	Findings:	7.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	03-JUN-15	Findings:	1.3 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	10-JUL-15	Findings:	28. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10-JUL-15	Findings:	0.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-JUL-15	Findings:	29. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-JUL-15	Findings:	1.3 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	10-JUL-15	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-15	Findings:	14. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	10-JUL-15	Findings:	5.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	10-JUL-15	Findings:	1.4 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	09-SEP-15	Findings:	28. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-SEP-15	Findings:	0.36 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-SEP-15	Findings:	23. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	09-SEP-15	Findings:	1.8 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	09-SEP-15	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-SEP-15	Findings:	26. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	09-SEP-15	Findings:	1.1 UG/L
Chemical:	TOTAL TRIHALOMETHANES		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09-SEP-15	Findings:	7.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-SEP-15	Findings:	1.2 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	01-OCT-15	Findings:	29. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	01-OCT-15	Findings:	0.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01-OCT-15	Findings:	29. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	01-OCT-15	Findings:	1.3 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	01-OCT-15	Findings:	28. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-OCT-15	Findings:	20. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	01-OCT-15	Findings:	6.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	11-MAY-12	Findings:	19.4 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11-MAY-12	Findings:	3.16 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11-MAY-12	Findings:	890. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11-MAY-12	Findings:	8.2
Chemical:	PH, LABORATORY		
Sample Collected:	11-MAY-12	Findings:	260. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	11-MAY-12	Findings:	320. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11-MAY-12	Findings:	3. MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	11-MAY-12	Findings:	370. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	11-MAY-12	Findings:	110. MG/L
Chemical:	CALCIUM		
Sample Collected:	11-MAY-12	Findings:	24. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11-MAY-12	Findings:	53. MG/L
Chemical:	SODIUM		
Sample Collected:	11-MAY-12	Findings:	3.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	11-MAY-12	Findings:	45. MG/L
Chemical:	CHLORIDE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11-MAY-12	Findings:	130. MG/L
Chemical:	SULFATE		
Sample Collected:	11-MAY-12	Findings:	0.63 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	11-MAY-12	Findings:	4. UG/L
Chemical:	VANADIUM		
Sample Collected:	11-MAY-12	Findings:	21. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	11-MAY-12	Findings:	570. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11-MAY-12	Findings:	1.7
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	11-MAY-12	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-OCT-15	Findings:	1.3 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	03-MAR-16	Findings:	6.6 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	03-MAR-16	Findings:	20. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03-MAR-16	Findings:	0.36 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03-MAR-16	Findings:	25. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	03-MAR-16	Findings:	2.7 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	03-MAR-16	Findings:	22. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	03-MAR-16	Findings:	6.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	03-MAR-16	Findings:	1.4 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-APR-16	Findings:	29. PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	21-APR-16	Findings:	4.9 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	21-APR-16	Findings:	2.52 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-APR-16	Findings:	7.2 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	21-APR-16	Findings:	26. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	11-MAY-12	Findings:	17. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11-MAY-12	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	11-MAY-12	Findings:	8900. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	11-MAY-12	Findings:	7.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-JUN-12	Findings:	21.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	14-JUN-12	Findings:	3.63 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-JUN-12	Findings:	29. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	14-JUN-12	Findings:	1.1 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	14-JUN-12	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUN-12	Findings:	15. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	14-JUN-12	Findings:	6.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	26-JUL-12	Findings:	31. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	21-APR-16	Findings:	2.3 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	21-APR-16	Findings:	27. UG/L
Chemical:	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		
Sample Collected:	21-APR-16	Findings:	7.7 UG/L
Chemical:	PERCHLORATE		

BA223
South
1/2 - 1 Mile
Higher

FED USGS

USGS40000140320

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340334117164801		
Monloc name:	001S004W27A014S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0594579
Longitude:	-117.2808756	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1010.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	127
Construction date:	Not Reported	Wellholeddepth:	127
Welldepth units:	ft		
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

BA224
South
1/2 - 1 Mile
Higher

FED USGS

USGS40000140319

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340334117164601		
Monloc name:	001S004W27A020S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0594579
Longitude:	-117.28032	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1015.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	127
Welldepth units:	ft	Wellholeddepth:	127
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

225
NNE
1/2 - 1 Mile
Higher

FED USGS

USGS40000140821

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340511117162401		
Monloc name:	001S004W14F004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0864014
Longitude:	-117.2742089	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1025.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	80
Construction date:	Not Reported	Wellholedepth:	80
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----	-----	-----
1953	25.00	

AZ226
East
1/2 - 1 Mile
Higher

FED USGS USGS40000140606

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340426117155101		
Monloc name:	001S004W23A001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0739019
Longitude:	-117.2650419	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1043.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	602
Welldepth units:	ft	Wellholedepth:	602
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

227
South
1/2 - 1 Mile
Higher

FED USGS USGS40000140318

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340334117164201		
Monloc name:	001S004W27A013S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.059458
Longitude:	-117.2792089	Sourcemap scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1018.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19290101	Welldepth:	760
Welldepth units:	ft	Wellholedepth:	895
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

BA228
South
1/2 - 1 Mile
Higher

FED USGS USGS40000140304

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340333117165301		
Monloc name:	001S004W27A018S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0591802
Longitude:	-117.2822646	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1010.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19000101	Welldepth:	435
Welldepth units:	ft	Wellholedepth:	435
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for SAN BERNARDINO County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SAN BERNARDINO COUNTY, CA

Number of sites tested: 18

<u>Area</u>	<u>Average Activity</u>	<u>% <4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% >20 pCi/L</u>
Living Area - 1st Floor	0.678 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish & Game

Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

Oil and Gas well locations in the state.

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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**APPENDIX E
CREDENTIALS**

DAVID M. JAMISON

FIELD ENVIRONMENTAL SCIENTIST

PROFESSIONAL EXPERIENCE

Mr. Jamison is a Field Geologist in Terracon's Orange County, California Office. He has a bachelor's degree in geology and is currently a field geologist working on Phase I Environmental Site Assessments as well as Phase II Site Investigations. He also has experience with surface water resources and water quality monitoring.

PROJECT EXPERIENCE

Phase 1 Environmental Site Assessments (ESA)

Project lead, historical researcher and site inspector on multiple office buildings, retail stores, warehouses, industrial sites and telecommunications projects, mostly in the State of Utah with a growing background in California.

Phase II Limited Site Investigations (LSI)

As a field geologist Mr. Jamison has worked on projects ranging from small test pits on small sites to investigating underground storage tank (UST) and leaking underground storage tank (LUST) sites at facilities such as the Salt Lake City International Airport. While conducting limited site investigations Mr. Jamison is responsible for logging and describing soils and contaminants and properly collecting and transporting soil and groundwater samples.

EPA National River and Stream (NRS) assessments in the State of Utah

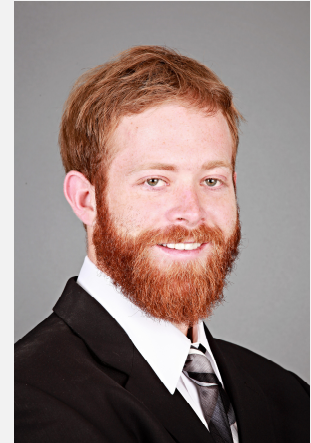
Responsible for properly and effectively logging stream ecosystem information including water quality data, stream geomorphology, plant and fish presence. As well as collecting water quality data and analytical samples in streams around the State of Utah as part of a standardized national survey of the quality of the nation's waterways.

Utah Comprehensive Analysis of Stream Ecosystems (UCASE): surveys and sampling.

Responsible for properly and effectively logging stream ecosystem information including water quality data, stream geomorphology, plant and fish presence in streams around the State of Utah in an attempt to catalog and analyze the health and quality of Utah waterways.

EPA National Lake Survey (NLS) Sampling

Responsible for collecting information and samples in accordance with the nationally standardized plan for surveying the nation's lakes in the State of Utah.



Education

*Bachelor of Science, Geology,
University of Utah, 2013*

Certifications

AHERA: Building Inspector

OSHA 40-hour HAZWOPER

*Visible Emissions Evaluator, State
of Utah, No. 429325*

*Soil and Groundwater Sampling
Cert, State of Utah, GS 1710*

Work History

*Terracon Consultants, Inc.
Field Geologist
2016 – Present*

*Terracon Consultants, Inc.
Field Environmental Scientist
2015 – 2016*

*State of Utah, Department of
Environmental Quality, Division of
Water Quality, Field sampling
technician, 2013-2014.*

ISLAM (SAMI) R. NOAMAN, E.I.T. ENVIRONMENTAL GROUP MANAGER

Professional Experience:

Mr. Noaman is an environmental group manager with track record in client management, management of phases of environmental site assessments (ESAs), business environmental risk reviews, site characterizations, regulatory compliance services, and remediation projects. Possess excellent analytical, problem solving, advisory, and team management skills. Seeking to leverage my management potentials in the environmental consulting services.

Environmental Site Assessments (ESA):

Performed and managed hundreds of ESAs in California for industrial, commercial, residential, and agricultural properties. Managed long-term national accounts for financial institutions (equity and loan portfolios), real estate investment trusts, developers and other real property owners. Understands facility operating systems; state and federal regulations; and fate and transport of chemicals through air, soil, vapor, surface water and groundwater. Is experienced in the performance of ESAs under the All Appropriate Inquiry rules (ASTM 1527-13), and meets the requirements of an Environmental Professional as defined by this rule.

Limited Subsurface Investigations (LSIs):

Performed and managed hundreds of LSIs in California, New Jersey, and New York. Investigated environmental conditions in soils and groundwater as a result of releases from a variety of sources, including service stations, dry cleaners, and a wide range of industrial and manufacturing operations. Specialized in collection and interpretation of data to pursue closure through state and federal programs including Los Angeles County Site Mitigation Unit, the regional water quality control board, and the department of toxic substances control voluntary cleanup programs (VCP).

Hazardous Materials Surveys:

Managed and/or provided quality assurance for numerous hazardous materials surveys in the state of California including, but not limited to, ACM, lead in paint, mold, PCBs, and mercury-containing equipment. ACM surveys were performed in accordance with AHERA and NESHAP guidelines on commercial, multi-family residential, and educational properties slated for renovation or demolition.

Stormwater Prevention and Pollution Control Plan (SWPPP):

Managed SWPPP for numerous industrial sites in Southern California. Scope of the work typically included client and agency coordination, implementation of guidelines required by the state of California Water Resources Board (SWRB), and preparation of documentations for submittals to the SWRB. In addition, I have managed several limited regulatory compliance projects (annual submittals and Level 1 ERA reporting) for industrial stormwater, to achieve compliance in accordance with the NPDES general permit requirements.



Education

Bachelor of Science, Chemistry/Environmental Chemistry, 2002, City University of New York, City College of New York

Pursuing Masters in Environmental Engineering (California State University Fullerton-expected graduation date Fall 2017)

Certifications

Certified Engineer In Training (CA) Certification No. EIT 171371

40-Hour OSHA Hazardous Waste Operations & Emergency Response Training Course (2017)

Work History

Terracon Consultants, Inc. (Irvine, CA), Environmental Group/Department Manager, June 2012 to Present

Smith Emery GeoServices (SEG), (Los Angeles, CA), Project Manager, August 2008 to June 2012

KLK Environmental Group LLC. (Kearny, NJ), Environmental Scientist August 2003 to June 2008

UniChem Inc. (Kearny, NJ), Staff Environmental Chemist August 2002 to June 2003

Major Department Store Commercial Retail Portfolio: Environmental team lead for evaluating environmental site conditions and due diligence review, including overseeing Phase I Environmental Site Assessments and Phase II Environmental Site Investigations for over thirty retail facilities with automotive maintenance across California. Findings from subsurface investigations were used to support regulatory closure of select facilities to facilitate a real estate transaction across the United States.

Industrial Facility – Land-use Change/Private School, Los Angeles, CA: Environmental consulting services including Phase I Environmental Site Assessments (ESA) due diligence support, subsurface investigation activities to evaluate environmental media including soil, soil gas and indoor / outdoor air. Services included a land-use change from an industrial facility to a private school. Prepared environmental investigation reports, regulatory interaction, corrective action design for indoor air mitigation, and work plan for management of environmental media.

Retail Shopping Center – Former Dry Cleaners Facility – DTSC, Fremont, CA: Conducted extensive site investigation activities to evaluate the magnitude and extent of chlorinated solvents identified in the vicinity of a former dry cleaners facility, including an evaluation of groundwater, soil, soil-gas and indoor vapors as a result of a chlorinated solvent plume. Project responsibilities consisted of direct support and interaction with client, client legal team and DTSC representatives to manage the closure process, including the preparation of work plans and environmental investigation reports, risk-based human health evaluation, and response actions.

Underground Storage Tank Assessment and Monitoring – West Los Angeles, CA: Assisted property owner with the regulatory closure of former underground storage tank (UST) site located in West Los Angeles, California. The project scope included historical research of past site use and site characterization, including soil, groundwater and soil gas assessments, followed by groundwater monitoring until closure was achieved.

Automated Fuel Dispensing Facilities – Camp Pendleton, California: Project scope included environmental and geotechnical investigations at six fueling existing/proposed facilities within Camp Pendleton, California. The project consisted of construction of new buildings, canopies, pavements, retaining walls, slopes, and installation of underground storage tanks (USTs), and other site facilities. Served as the environmental group leader.

Emerson College, Hollywood, California: Conducted comprehensive investigation and assisted the client through enrolling and interacting with the LAFD regarding USTs found during construction activities. Provided construction management oversight to manage impacted soils and assisted the client in waste disposition, permitting and regulatory compliance interaction. A total of 45,000 cubic yards of soil was removed from the site and disposed at an off-site facility, prior to the construction of a mid-rise school complex. Support services allowed for significant savings in construction, on an expedited timeline in concert with the construction schedule.

Los Angeles Unified School District (LAUSD Sites): Managed soil characterization for export/import soils for over nine Los Angeles Unified School District (LAUSD) sites. Prepared Sample Strategy Plans (SSP) for stockpiled and in-place soils, oversaw the sampling, and prepared soil certification reports under the supervision of a professional geologist for submittal to the LAUSD Office of Environmental Health.

Newton Plastics, Newton, NJ: Managed the removal of two 12,000-gallon (solvents & gasoline containing) USTs from a plastic products manufacturing facility as a part of transaction deal. Project tasks included, work plan preparation, regulatory officials interface, client contact/coordination, oversight of removal activities, and report preparation. No further action letter from NJDEP was obtained for the client. The property value was retained for the client with our consulting services.

Eagle Electric, Queens, NY: Responsibilities were to manage the cleanup of former Coal storage rooms in basement of a landmark building in Queens, NY. The cleanup activities included, hauling of approximately 425 tons of Class N-1 Hazardous materials, managed and ensured safety of eight to twelve crew, handling of waste manifests, and coordination for transportation / disposal and client interface.

AROL Chemicals, Newark, NJ: Managed Phase I and Phase II ESA of chemical manufacturing facility. Scope of Phase II ESA included, the removal of three 12,000-gallon USTs, excavation and disposal of impacted soils.

CARL A. PARTEN, P.G.

OFFICE MANAGER

PROFESSIONAL EXPERIENCE

Mr. Parten has over twenty-nine years of experience in environmental consulting in multiple regional regulatory districts throughout the United States. His professional experience includes comprehensive site investigations and remediation studies for Industrial and Hazardous Waste sites, municipal solid waste landfill sites and underground storage tank (UST) facilities.

He has successfully managed and obtained regulatory closure of over 30 Voluntary Cleanup Program (VCP) sites and leaking underground storage tank (LUST) facilities, and coordinated UST removal and closure for numerous facilities in multiple states throughout the United States. Mr. Parten continues to serve as a technical lead with Terracon and he possesses extensive experience in the installation of monitor wells, aquifer characterization, sensitive receptor surveys, risk-based assessments, vapor intrusion (VI) evaluations, and soil-gas assessments. Additionally, he has extensive experience in comprehensive soil and groundwater investigations on industrial facilities and municipal solid waste (MSW) landfill facilities, including evaluation of landfill gas/methane impacts. He has prepared and implemented corrective action work plans for remediation of chlorinated hydrocarbons at dry cleaner facilities and petroleum hydrocarbons at LUST facilities, MSW landfill facilities, and managed and implemented groundwater pump and treat, non-aqueous phase liquid (NAPL) recovery, and dual-phase vapor extraction systems for the recovery of petroleum hydrocarbons. Additionally, Mr. Parten developed work plans and implemented the remediation of heavy metals and poly-nuclear aromatic hydrocarbons (PAHs).

PROJECT EXPERIENCE

Industrial Facility – Union City, California

Subsurface investigation and delineation of heavy metals and polynuclear aromatic hydrocarbons (PAHs) in soil to facilitate the development of response actions and waste characterization/disposal of impacted environmental media at a large industrial facility with over sixty years of operations. Consulting services included preparation of investigation reports, response action work plans, and client/regulatory interaction.

Industrial Facility – Land-use Change/Private School, Los Angeles, CA

Environmental consulting services including Phase I Environmental Site Assessments (ESA) due diligence support, subsurface investigation activities to evaluate environmental media including soil, groundwater, soil gas and indoor / outdoor air. Services included a land-use change from an industrial facility to a private school. Prepared environmental investigation reports, regulatory interaction, corrective action design and work plan for management of environmental media.

USARC Facility – Mare Island, California

Environmental team leader for evaluation of an existing 32-acre military facility, Mare Island in California. The teaming effort included the preparation of a Technical Assessment report on the facility to provide USAR a decision making and programming tool to establish future

Education

Bachelor of Science, Geology, Sul Ross State University, Alpine, Texas, 1994

Additional Courses:

University of Houston TCEQ Texas Risk Reduction Program: Mod. I, II, and III

Roadmap to Remediation

CAPM Refresher Course, Texas A&M University

TNRCC Hazardous Waste Seminar

TNRCC PST Risk Assessments Seminar

TNRCC Pollution Prevention Training Workshop

API Risk/Exposure Assessment

Contaminant Fate and Transport Modeling in Risk Assessment

Environmental Hydrology / Soil Science

Certifications

Licensed Professional Geoscientist (P.G.), I.D. # 221, Texas Board of Professional Geoscientists 2003 (current)

Registered Professional Geologist (P.G.), I.D. # 004037; State of Tennessee, May 1996 (current)

TCEQ Corrective Action Project Manager, CAPM #01091 (current)

40 Hour OSHA Hazardous Waste Site & Waste Management Training

Affiliations

BDA/Orange County

CMAA

Groundwater Resource Assoc.

Geological Society of America

Work History

*Terracon Consultants, Inc. (Irvine),
Principal, Office Manager,
July 2010 to Present*

*Terracon Consultants, Inc. (Dallas),
Environmental Group Manager,
August 1998 to July 2010*

*ATC (formerly ATEC) Associates, Inc. -
Dallas, Texas, Senior Project Manager
April 1990 to August 1998*

*Terratech, Inc. - San Jose, California,
Environmental and Geotechnical
Technician
February 1989 to March 1990*

*Woodward-Clyde Consultants - San
Jose, California, Environmental and
Geotechnical Technician
March 1987 to February 1989*

restoration and replacement upgrades to the facility. The report included an evaluation of existing conditions of the site and facilities with respect to current mission and identified construction costs required to comply with USAR facility standards, Anti-Terrorism/Force Protection requirements, handicapped accessibility regulations, and current building codes. Conceptual costs for related improvements and environmental mitigation were presented.

Major Department Store Commercial Retail Portfolio

Environmental team lead for evaluating environmental site conditions and due diligence review, including overseeing Phase I Environmental Site Assessments and Phase II Environmental Site Investigations for over fifty retail facilities with automotive maintenance across California. Findings from subsurface investigations were used to support regulatory closure of select facilities to facilitate a real estate transaction across the United States.

Automated Fuel Dispensing Facilities – Camp Pendleton, California

Project scope included environmental and geotechnical investigations at six fueling existing/proposed facilities within Camp Pendleton, California. The project consisted of construction of new buildings, canopies, pavements, retaining walls, slopes, and installation of underground storage tanks (USTs), and other site facilities. Served as the primary client point of contact and environmental technical leader.

Mixed-Use High-rise Building, West Hollywood, California

Conducted comprehensive investigation and assisted the client through enrolling and interacting with the DTSC / VCP regarding chlorinated solvent and heavy metal-impacted soil and groundwater. Provided construction management oversight to manage impacted soils and assisted the client in waste disposition, permitting and regulatory compliance interaction. A total of 52,000 cubic yards of soil was removed from the site and disposed at an off-site facility, prior to the construction of a \$170M high-rise multi-use complex. Terracon's support services allowed for significant savings in construction, on an expedited timeline in concert with the construction schedule.

Underground Storage Tank and Soil Remediation – Regional Water Board, Squaw Valley, CA

Terracon assisted a private developer with the regulatory closure of an underground storage tank (UST) site located in Squaw Valley, California. The abandoned 10,000-gallon UST was responsible for a release of heavy waste oils to the ground surface and banks of a creek. Following disposal of the UST, approximately 70 cubic yards of petroleum-impacted soils were excavated and properly disposed. Interaction with the Regional Water Board and Public Notification resulted in the issuance of case closure.

Retail Shopping Center – Former Dry Cleaners Facility – DTSC, Fremont, CA

Conducted extensive site investigation activities to evaluate the magnitude and extent of chlorinated solvents identified in the vicinity of a former dry cleaners facility, including an evaluation of groundwater, soil, soil-gas and indoor vapors as a result of a chlorinated solvent plume. Mr. Parten provided direct support and interaction with client, client legal team and DTSC representatives to manage the closure process, including the preparation of work plans and environmental investigation reports, risk-based human health evaluation, and response actions.

Soil Remediation – Riverside County Regulatory Oversight, Telecommunications Site, Perris, CA

Terracon assessed the magnitude and extent of a surficial release of petroleum hydrocarbons, developed a work plan, approved by overseeing agency, and conducted remediation, removal and legal disposal of 80 cubic yards of non-hazardous soil.

Municipal Landfill – VCP Site

Successfully oversaw and managed the engineering design and construction quality assurance for the closure and restoration of a high-profile MSW landfill in accordance with regulatory standards, subsequent to significant investigation activities. The remedy consisted of removal and consolidation of wastes and construction of LFG recovery trenches to prevent migration of landfill gas. The remedy utilized engineering controls and removal of impacted media. Project management responsibilities included coordination with Local, State and Federal officials, public/neighborhood communications, and interaction with attorneys, and management of project budgets that exceeded \$4.5 million over seven years. Terracon continues to provide post closure care monitoring and O&M for the site.

Department of Transportation Contract

Successfully managed a two-year environmental services contract with the Texas Department of Transportation (TxDOT) and coordinated multiple Terracon offices to provide geographic coverage of environmental consulting service throughout Texas. Mr. Parten was the liaison to TxDOT for the performance of environmental consulting services, and provided senior technical review of environmental investigations, Phase I ESAs, removal of underground storage tanks, remediation of affected media and waste management, asbestos and lead-based paint investigations, and management of financial metrics and budgets in strict conformance with negotiated fees and procedures under a \$2,000,000 contract.

City-Operated LUST Facilities

Provided senior project management of 14 City operated LUST facilities through coordination of investigation, regulatory reporting and response actions in the pursuit of closure. Mr. Parten was responsible for managing all site activities, evaluation of data, reporting, communicating with local and state officials, and management of budget and schedule requirements.

Municipal Property

Provided senior project management and technical review of several properties, including the remediation of metals and PAH-impacted soils, using a combination of excavation and removal and in-place stabilization. Work was performed under the EPA Brownfields Program and the Voluntary Cleanup Program. The \$1.2 million dollar remediation project was part of a high-profile downtown parks and recreation redevelopment project that successfully established LEED Certified public parks in areas once occupied by commercial and industrial property. Mr. Parten was responsible for managing all site activities, evaluation of data, reporting, communicating with local and state officials, and management of budget and schedule requirements.

3.023-Acre Tract – VCP Site

Successfully managed a Phase I ESA and subsequent comprehensive site investigation to evaluate historical site activities and non-native fill material. Chemicals of concern included VOCs, TPH, metals and PAHs in on-site soil and groundwater. Subsequent to completion of a risk-based assessment, response actions including remediation of approximately 1,500 cubic yards of impacted soils was performed to obtain a voluntary cleanup program Certificate of Completion. Mr. Parten was responsible for managing all site activities, evaluation of data, reporting, and communication with state officials.

Retail Shopping Center – VCP Site

Conducted extensive site investigation activities to evaluate the magnitude and extent of chlorinated solvents identified in the vicinity of a former dry cleaners facility. The chlorinated solvent plume was defined to drinking water standards and was delineated to a creek channel nearly 1,200 feet from the source property. Based on site investigation results, assisted the property owner in entering the site into the VCP, and managed and implemented response actions and treatment of affected media utilizing a combination of source-removal/excavation (750 cubic yards) within the building interiors, hydrogen-releasing compound (HRC®) treatment of backfill, and HRC injection into the underlying soil and groundwater across the site. Treatment technology effectively remediated affected soils and significantly reduced contaminant levels within the on-site source areas. Additional response actions were conducted to reduce on-site groundwater contamination levels through HRC injection at over 250 locations. Monitored natural attenuation and groundwater monitoring was performed for a period of approximately four years. Mr. Parten assisted the client in the establishment of a deed restriction (Municipal Setting Designation) that restricted the use of groundwater on the site. Mr. Parten interacted with City and State officials and prepared and submitted multiple reports documenting site activities, and managed a project budget totaling \$1,200,000.

Additional Project Experience

Under the direction and senior technical review by Mr. Parten, final site closure has been obtained for over thirty VCP, Innocent Owner/Operator Program, LUST, and Industrial and Hazardous Waste facilities in multiple states across the United States. Additionally, Mr. Parten has coordinated and managed the removal of dozens of underground storage tank (UST) systems and remediation of contaminated soil and groundwater. Mr. Parten has provided expert testimony on multiple projects, and is a primary point of contact interacting with environmental attorneys and regulatory agencies.

APPENDIX F
DESCRIPTION OF TERMS AND ACRONYMS

Description of Selected General Terms and Acronyms

Term/Acronym	Description
ACM	<p>Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining).</p> <p>Regulatory agencies have generally defined ACM as a material containing greater than one (1) percent asbestos, however some states (e.g. California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable.</p> <p>Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM is likely to be disturbed or damaged during the demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply.</p>
AHERA	Asbestos Hazard Emergency Response Act
AST	Aboveground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
BGS	Below Ground Surface
Brownfields	State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CESQG	Conditionally Exempt Small Quantity Generators
CFR	Code of Federal Regulations

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Term/Acronym	Description
CREC	Controlled Recognized Environmental Condition is defined in ASTM E1527-13 as “a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority) , with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report.”
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment
FRP	Fiberglass Reinforced Plastic
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a “solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.”
HREC	Historical Recognized Environmental Condition is defined in ASTM E1527-13 as “a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition.”
IC/EC	A listing of sites with institutional and/or engineering controls in place. IC include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. EC include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.
ILP	Innocent Landowner/Operator Program
LQG	Large Quantity Generators
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.

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Term/Acronym	Description
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/L	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal ("cradle to grave"). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.
RCRA CORRACTS/TS Ds	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non-CORRACTS/TS Ds	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.

Description of Selected General Terms and Acronyms

Term/Acronym	Description
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.
REC	Recognized Environmental Conditions are defined by ASTM E1527-13 as “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment; 2) under conditions indicative of a release to the environment. <i>De minimis</i> conditions are not recognized environmental conditions.”
SCL	State “CERCLIS” List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State “CERCLIS” List.
SQG	Small Quantity Generator
SWF/LF	State and/or Tribal database of Solid Waste/Landfill facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
TPH	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-13, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
VOC	Volatile Organic Compound

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Term/Acronym	Description
Wetlands	<p>Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The <u>Corps of Engineers Wetlands Delineation Manual</u> (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present.</p> <p>The federal Clean Water Act which regulates “waters of the US,” also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U. S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.</p>