INFORMATION HANDOUT

For Contract No. 03-1E7604
At 03-Yub-20, 70-0.5/0.9, 14.3/14.4

Identified by
Project ID 0300000273

MATERIALS INFORMATION

Site Investigation Report

Supplemental Site Investigation Report

SITE INVESTIGATION REPORT

Marysville Highway Improvement Project
State Route 70 between 4th and 5th Streets
State Route 20 between H and F Streets
Yuba County, California

PREPARED FOR:

CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 3
ENVIRONMENTAL ENGINEERING OFFICE
703 B STREET
MARYSVILLE, CALIFORNIA 95901

PREPARED BY:

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GEOCON PROJECT NO. S9805-01-23
TASK ORDER NO. 23, EA 03-1E7601

APRIL 2014

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S9805-01-23
April 16, 2014

Mr. Mark Melani
California Department of Transportation - District 3
Environmental Engineering Office
703 B Street
Marysville, California 95901

Subject: SITE INVESTIGATION REPORT
MARYSVILLE HIGHWAY IMPROVEMENT PROJECT
STATE ROUTE 70 BETWEEN 4TH AND 5TH STREETS
STATE ROUTE 20 BETWEEN H AND F STREETS
MARYSVILLE, YUBA COUNTY, CALIFORNIA
CONTRACT NO. 03A2132, TASK ORDER NO. 23, EA 03-1E7601

Dear Mr. Melani:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A2132 and Task Order Number (TO) No. 23, Expense Authorization (EA) 03-1E7601, Geocon Consultants, Inc. has performed environmental engineering services for the proposed Marysville Highway Improvement Project located along State Routes 70 and 20 in the City of Marysville, Yuba County, California. The accompanying report summarizes the services performed including the advancement of 17 direct-push borings for soil and groundwater sample collection, the performance of a limited geophysical survey at suspected underground storage tank locations, and analytical laboratory testing.

The contents of this report reflect the views of the author, who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

Please contact us if there are any questions concerning the contents of this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

John E. Juhrend, PE, CEG
Project Manager

Josh Ewert, PG
Project Geologist

PROFESSIONAL GEOLOGIST
JOSH EWERT
NO. 9096
STATE OF CALIFORNIA

(5 + 3 CD) Addressee

TABLE OF CONTENTS

SITE INVESTIGATION REPORT PAGE

FIGURES

PHOTOGRAPHS (1 through 19)

TABLES

TABLE OF CONTENTS (continued)

APPENDICES

SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Site Investigation (SI) Report for the Marysville Highway Improvement Project, located along State Routes 70 (SR-70) and 20 (SR-20) in the City of Marysville, Yuba County, California, was prepared by Geocon Consultants, Inc. under California Department of Transportation (Caltrans) Contract No. 03A2132, Task Order (TO) No. 23 and Expense Authorization (EA) 03-1E7601.

1.1 Project Description and Proposed Improvements

The project limits consist of north-south SR-70 (E Street) between 4th and 5th Streets and east-west SR-20 (10th Street) between H and F Streets. The SI was performed within the existing Caltrans SR-70 and SR-20 right-of-way (ROW) in the commercial downtown Marysville area. SR-70 and SR-20 within the project limits are four lanes, with paved center median, signalized intersections and turning lanes. Sidewalks are present along both sides of the highways. The approximate project location is depicted on the Vicinity Map (Figure 1) and Site Plans (Figures 2-1 and 2-2).

Planned traffic operational improvements include removal of median islands, installation of turning lane pockets, relocation of street lighting from medians to sidewalks, and revised intersection signalization, ADA ramps and sidewalk rehabilitation. Planned excavations for sidewalk reconstruction may extend 2 feet into subgrade soil. Deeper excavations to a maximum depth of approximately 12 feet may be required for signal and light pole foundations.

Partial parcel ROW takes and temporary construction easements (TCEs) may be required for 19 parcels located at the intersection corners within the project boundaries to facilitate construction of the planned improvements. The triangular-shaped ROW takes generally extend from 5 to 9 feet along the adjacent highway and street ROW. Photographs of the triangular-shaped ROW takes are included in this report.

1.2 General Objectives

The objective of this investigation was to determine the potential presence of soil impacts and shallow groundwater (if encountered) impacts resulting from historical and current adjacent facility operations including underground storage tank (UST) releases. Caltrans will use the investigative results for preliminary project scoping and ROW acquisition evaluations and to inform the construction contractor(s) if impacted soil and groundwater is present within the project boundaries for health, safety, management and disposal evaluation purposes. The fieldwork, sampling, laboratory analysis, and related tasks were performed in general accordance with Contract 03A2132 requirements.

2.0 BACKGROUND

The following background information was obtained from historical documents and publicly available regulatory records.

2.1 Site Geology and Hydrogeology

The relatively flat project area is located within the central portion of the Great Valley geomorphic province at an elevation of approximately 60 feet above mean sea level. The nearest surface water bodies are Ellis Lake adjacent and north of SR-70/SR-20 (9th Street) between B and D Streets, the Yuba River approximately 1/4 mile to the south, and the Feather River approximately 1/2 mile to the west.

Local geology consists of a thick sequence of unconsolidated and interbedded alluvial sediments. Review of boring logs prepared for adjacent UST release facilities indicates that subsurface soil conditions generally consist of interbedded silt, clay and sand layers with some gravel to the maximum depth of explored of 60 feet.

Depth to groundwater within the project boundaries generally varies from 20 to 25 feet. The regional groundwater flow direction is generally northwesterly to northeasterly with local variations.

2.2 Historical and Regulatory Document Review

1871 Birds Eye View of the City of Marysville

We reviewed the 1871 Birds Eye View of the City of Marysville that covers the majority the project boundaries. The project area was generally occupied by residential structures, schools and churches. A northeast-southwest trending slough area (pre-Ellis Lake) is depicted in undeveloped areas near the project area that crossed E Street (SR-70) between 8th and 9th Streets. According to information provided by Caltrans' Project Archaeologist, the slough was used in the 1800s for refuse disposal prior to filling and creation of Ellis Lake in the early 1900s. Caltrans has designated the debris-filled slough as an area of archaeological interest.

Sanborn Fire Insurance Maps

We reviewed EDR Sanborn Fire Insurance Maps of Marysville provided by Caltrans for years 1885, 1890, 1895, 1909, 1921 and 1948. Review of the maps indicates that the SR-70 (E Street) portion of the project area was generally occupied by residential, commercial and church properties. Properties along 10th Street (SR-20) within the project boundaries generally include residential properties. Properties west of F Street are identified in the early maps as "Submerged Land." The width of E Street (SR-70) and 10th Street (SR-20) is shown as 100 feet.

Potential historical facilities of interest identified on the Sanborn Maps include:

- Storm drainage collection was accomplished by a system of drainage pipes and cisterns (cistern located at intersection of E and 4th Streets).
- Dunning Brothers Garage (1921) at the southwestern corner of E and 4th Streets.
- Oil & Gas Station (1921 & 1948 maps) at the southeastern corner of E and 4th Streets.
- Gas & Oil (1948 map) at garage (current McDonalds) south of southwestern corner of E and 4th Streets.
- Gas & Oil Station (1948 map) at the northeastern corner of E and 4th Streets.
- Oil & Gas Station (1921 & 1948) at the southwestern corner of E and 5th Streets.
- Gas & Oil Stations (1948 map) at the northwestern and northeastern corners of E and 5th Streets.

The 1921 and 1948 Sanborn Maps depicting the former service station and automobile garage locations along E Street (SR-70) are on Figures 3-1 and 3-2.

GeoTracker and EnviroStor Databases

We reviewed regulatory database records for permitted UST facilities, leaking UST (LUST) facilities, and other identified contamination assessment/remediation properties located adjacent to the project boundaries on the State Water Resources Control Board (SWRCB) GeoTracker website (http://geotracker.waterboards.ca.gov/) and the California Department of Toxic Substances Control (DTSC) EnviroStor website (http://www.envirostor.dtsc.ca.gov/public/). The information obtained for the identified facilities along with their map identification numbers (Map IDs) are summarized below and in Table 1. The approximate facility locations by Map ID number are presented on the Site Plans, Figures 2-1 and 2-1. Copies of site plans depicting former and existing UST locations, extent of associated impacts and groundwater monitoring wells are in Appendix A.

- **Sierra Central Credit Union (Former Texaco Station), 422 4th Street, Map ID #2, Photo 2**. This facility is an Open LUST Cleanup Site regulated by the Central Valley Regional Water Quality Control Board (CVRWQCB). A former Texaco service station facility reportedly operated at the southeast corner of SR-70 and 4th Streets between 1955 and 1979 (also identified as a gasoline station on 1921 and 1948 Sanborn Maps). The fuel USTs were removed from this facility by 1979. Site investigations performed at this facility since 1992 included the installation of seven onsite wells and two offsite wells within SR-70. Petroleum hydrocarbon soil and groundwater impacts have been identified at this facility. Vacuum extraction was performed at this facility in January 2013 including the removal of 740 gallons of treated groundwater. Depth to groundwater in September 2013 ranged from 19 to 22.54 feet with flow direction toward the northeast. The CVRWQCB has directed that this facility and the adjacent LUST case to the north perform coordinated groundwater monitoring and include data from both facilities showing combined groundwater impacts. An April 2013 report for this facility identified the current McDonalds property across SR-70 as being a former "gas & oil" station (former Twin Cities Garage). **Petroleum hydrocarbon-impacted soil and groundwater may exist within the planned 422 4th Street ROW parcel and TCE acquisitions in addition to the adjacent SR-70 ROW.**

- **Marysville Plaza (Former Mobile Station, current Subway), 401 E Street, Map ID #3, Photo 3**. This facility is an Open LUST Cleanup Site regulated by the CVRWQCB. A former Mobile service station facility reportedly operated at this property located at the northeast corner of SR-70 and 4th Streets between 1953 and 1963 (also identified as a gasoline station on 1948 Sanborn Map). Four abandoned (sand-filled) USTs are currently located at the southwestern corner of this facility extending beneath the SR-70 sidewalk area. Site investigations performed at this facility since 1993 included the installation of three onsite wells and three offsite wells including one well within the center median area of SR-70. Petroleum hydrocarbon soil and groundwater impacts have been identified at this facility. Planned remedial action includes removing the abandoned USTs and associated contaminated soil including portions of the SR-70 sidewalk and highway ROW. Depth to groundwater in September 2013 ranged from 22 to 24 feet with flow direction toward the northeast. **Documented abandoned USTs and petroleum hydrocarbon-impacted soil and groundwater may exist within the planned 401 E Street ROW parcel and TCE acquisitions in addition to the adjacent SR-70 ROW.**

- **Shell Station, 501 5th Street, Map ID # 5, Photo 6**. This gasoline station facility, located at the northwest corner of SR-70 and 5th Street, received LUST case closure status from the CVRWQCB in January 2014. The facility was identified as a gasoline station on the 1948 Sanborn Map in a different configuration from the existing station. Fuel and waste oil USTs and associated contaminated soil were removed from this facility in 1986 and 1990. Site investigations performed at this facility since 1991 included the installation of nine onsite and seven offsite wells. Petroleum hydrocarbon soil and groundwater impacts have been identified at this facility. Groundwater extraction was performed at this facility between 2006 and 2009 including the removal of 418,505 gallons of treated groundwater. Depth to groundwater in July 2012 ranged from 20.15 to 25.49 feet with variable flow direction. The site monitoring wells were destroyed in 2013. **Petroleum hydrocarbon-impacted soil and groundwater may exist within the planned 501 5th Street ROW parcel and TCE acquisitions in addition to the adjacent SR-70 ROW.**

- **Former Jackpot Gasoline Station (Current Yuba Food & Liquor Mart), 605 10th Street, Map ID #10, Photo10**. This former gasoline station facility, located at the northwest corner of SR-20 and F Street, received LUST case closure status from the CVRWQCB in February 2011. The UST refueling system was removed in 1997 when gasoline-range petroleum hydrocarbon soil impacts were identified. Five onsite and five offsite monitoring wells were subsequently installed to monitor groundwater impacts. Active remediation at this facility included operation of a soil vapor/groundwater extraction system. Depth to groundwater in May 2010 was approximately 18 feet with flow direction toward the west-southwest. The site monitoring wells were destroyed in 2011. **Petroleum hydrocarbon-impacted soil and groundwater may exist within the planned 605 10th Street ROW parcel and TCE acquisitions in addition to the adjacent SR-20 ROW.**

- **Econo Gas (Former Beacon Station), 704 10th Street, Map ID #13, Photo 13**. This existing gasoline station facility, located at the southwest corner of SR-20 and G Street is an Open LUST Cleanup Site regulated by the CVRWQCB. Leaks associated with the onsite fuel USTs were identified in 1988 and 1990. Site investigations performed at this facility since 1991 included the installation of four onsite and eleven offsite monitoring wells, and several remediation wells to address petroleum hydrocarbon soil and groundwater impacts. Free-product was previously removed using bailing and a skimmer. Soil and groundwater treatment systems including pump and treat, soil vapor extraction and air sparge, operated between 1985 and 2010. As of January 14, 2014, the facility is eligible for closure and the wells have been approved for destruction by

the CVRWQCB. Depth to groundwater in June 2013 ranged from 19.58 to 21.30 feet with flow direction toward the northwest. **Petroleum hydrocarbon-impacted soil and groundwater may exist within the planned 704 10th Street ROW parcel and TCE acquisitions in addition to the adjacent SR-20 ROW.**

2.3 Hazardous Waste Determination Criteria

Regulatory criteria to classify a waste as "California hazardous" for handling and disposal purposes are contained in the California Code of Regulations (CCR), Title 22, Division 4.5, Chapter 11, Article 3, § 66261.24. Criteria to classify a waste as "Resource, Conservation, and Recovery Act (RCRA) hazardous" are contained in Chapter 40 of the Code of Federal Regulations (40 CFR), Section 261.

For waste containing metal, the waste is classified as California hazardous when: 1) the representative total content equals or exceeds the respective Total Threshold Limit Concentration (TTLC); or 2) the representative soluble content equals or exceeds the respective Soluble Threshold Limit Concentration (STLC) based on the standard Waste Extraction Test (WET). A waste may have the potential of exceeding the STLC when the waste's total content is greater than or equal to ten times the respective STLC value, since the WET uses a 1:10 dilution ratio. Hence, when an analyte is detected at a concentration greater than or equal to ten times the respective STLC, and assuming that 100 percent of the analyte is soluble, soluble analysis is required. A material is classified as RCRA hazardous, or Federal hazardous, when the representative soluble content equals or exceeds the Federal regulatory level based on the Toxicity Characteristic Leaching Procedure (TCLP). The TTLC value for lead is 1,000 milligrams per kilogram (mg/kg). The STLC and TCLP values for lead are both 5.0 milligrams per liter (mg/l).

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability and corrosivity; however, for the purposes of this investigation, toxicity (i.e., representative lead concentrations) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or corrosivity. Waste that is classified as either California hazardous or RCRA hazardous requires management as a hazardous waste.

The DTSC regulates and interprets hazardous waste laws in California. DTSC generally considers excavated or transported materials that exhibit 'hazardous waste' characteristics to be a 'waste' requiring proper management, treatment and disposal. Soil that contains contaminants above hazardous waste thresholds and is left in-place would not be necessarily classified by DTSC as a 'waste.' The DTSC has provided site-specific determinations that "movement of wastes within an area of contamination does not constitute 'land disposal' and, thus, does not trigger hazardous waste disposal requirements." Therefore, impacted soil that is scarified in-place, moisture-conditioned, and recompacted during roadway improvement activities might not be considered a 'waste.' DTSC should be consulted to confirm waste classification. It is noted that in addition to DTSC regulations, health and safety requirements and other local agency requirements may also apply to the handling and disposal of metal and/or pesticide-impacted soil.

2.4 Risk-based Screening Criteria

The California Environmental Protection Agency (Cal/EPA) has prepared technical reports entitled *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* (Cal/EPA, January 2005) and *Revised California Human Health Screening Levels for Beryllium* (Cal/EPA, March 2009) and *Lead* (Cal/EPA, September 2009), which present CHHSLs for soil, shallow soil gas, and indoor air to assist in evaluating sites impacted by releases of hazardous chemicals.

The CHHSLs are concentrations of 54 hazardous chemicals including Title 22 metals that Cal/EPA considers to be below thresholds of concern for risks to human health. The CHHSLs were developed by the Office of Environmental Health Hazard Assessment (OEHHA) on behalf of Cal/EPA. The thresholds of concern used to develop the CHHSLs are an excess lifetime cancer risk of one in a million and a hazard quotient or 1.0 for noncancer effects. Under most circumstances, the presence of a chemical at concentrations below its respective CHHSL can be assumed to not pose a significant risk. The presence of a chemical at concentrations above a CHHSL does not indicate that adverse impacts to human health are occurring or will occur but suggests that further evaluation is warranted (Cal/EPA, January 2005).

2.5 Environmental Screening Levels

The San Francisco Bay Regional Water Quality Control Board (SFRWQCB) has prepared a technical report titled *User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), Interim Final* (December 2013), which presents ESLs for soil, groundwater, soil gas, and surface water, to assist in evaluating sites impacted by releases of hazardous chemicals. The ESLs are conservative values for more than 100 commonly detected contaminants, which may be used to compare with environmental data collected at a site. ESLs are strictly risk assessment tools and "not regulatory cleanup standards." The presence of a chemical at concentrations in excess of an ESL does not necessarily indicate that adverse impacts to human health or the environment are occurring; this simply indicates that a potential for adverse risk may exist and that additional evaluation is warranted (SFRWQCB, 2013).

2.6 Waste Determination Criteria – Petroleum Hydrocarbons

Currently, regulatory criteria for the classification of wastes based solely on the concentrations of gasoline-range organics (GRO), diesel-range organics (DRO), and motor oil-range organics (ORO) and volatile organic compounds (VOCs), have not yet been promulgated. Disposal of petroleum hydrocarbon and VOC-impacted soil and groundwater is generally regulated by disposal facility permit and acceptance criteria.

3.0 SCOPE OF SERVICES

We performed the following scope of services as requested by Caltrans in TO No. 23 and by the Caltrans TO Manager, Mr. Mark Melani.

3.1 Pre-field Activities

- Mr. John Juhrend with Geocon and Mr. Mark Melani with Caltrans attended a site meeting on March 7, 2014, to identify the project boundaries and existing site conditions. Proposed boring locations were marked in white paint for subsequent utility clearance.
- Prepared a *Health and Safety Plan*, dated March 2014 to provide guidelines on the use of personal protective equipment and the health and safety procedures implemented during the field activities.
- Provided 48-hour notice to Underground Service Alert (USA Ticket Nos. 88798, 88821, 88858, 88877, and 88882) prior to job site mobilization.
- Retained the services of Advanced Geological Services (AGS) to provide utility clearance services at each boring location and a subsequent geophysical survey at two suspected UST locations.
- Retained the services of Advanced Technology Laboratories (ATL), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of soil samples.
- Coordinated archaeological monitoring services provided by Pacific Legacy under direct contract with Caltrans.

3.2 Field Activities

The field sampling activities consisted of the advancement of 17 direct-push borings for the collection of soil samples and one groundwater sample. We advanced the direct-push soil borings to a maximum depth of 12 feet using our truck-mounted direct-push rig. Soil samples were generally collected at 4-foot intervals. Groundwater was only encountered and sampled in one boring.

4.0 INVESTIGATIVE METHODS

4.1 Boring Location Rationale

Caltrans requested the performance of one soil boring at each proposed partial parcel ROW acquisition adjacent to SR-70 and SR-20. Where a private property access agreement was not available, we performed a boring within the adjacent SR-70 sidewalk area. The proposed boring location at the northeastern corner of SR-70 and 4th Street was not performed due to the presence of USTs beneath the parcel boundary and adjacent SR-70 sidewalk areas. A summary of the parcel information and boring locations is on Table 1.

The boring locations were documented by Geocon using differential global positioning systems (GPS). The GPS was utilized to locate the horizontal position of each boring with an error of no more than 3.3 feet. The latitude and longitude of each boring are summarized on Table 2. The approximate soil boring locations are depicted on Figures 2-1 and 2-2 and in photographs 1, 2, 4 and 6 through 19.

4.2 Utility Surveys

Responding USA subscribers cleared the proposed boring locations prior to the start of the fieldwork. On March 12, 2014, AGS performed utility surveys using electrical locating equipment and visual observations to assist in clearing the boring locations. Several boring locations were adjusted to avoid potential utility conflicts with USA markings or unknown utilities identified by AGS.

4.3 Site Safety and Traffic Control

A project safety meeting was held prior to starting the field sampling activities conducted between March 12 and 14, 2014. Present at the meeting were the Geocon Project Manager and sampling personnel, the Caltrans TO Manager, an AGS utility locator and a Pacific Legacy archaeologist. We provided shoulder closure traffic control during the field sampling activities using advance warning signs and cones.

4.4 Direct-push Sampling Activities

We performed 17 borings between March 12 and 14, 2014, to a maximum sampling depth of 12 feet. Continuous core soil samples obtained from the direct-push borings were collected in 4-foot-long, 1.75-inch-diameter, cellulose thermoplastic (acetate) sample liners. The bottom 6 inches of each sample tube was fitted with Teflon™ sheets, capped, labeled and placed in an ice chest, pending delivery to ATL under chain-of-custody (COC) documentation. The remaining sample cores were spilt in half for observation and sampling by the Pacific Legacy archaeologist. The archaeologist used a trowel to examine the soil materials for logging purposes.

Following completed archeological monitoring, the remaining soil cores were logged by a Geocon Professional Geologist using the Unified Soil Classification System. Selected intervals of soil remaining in the acetate liners were transferred to re-sealable Ziploc® plastic bags and evaluated for odor and soil discoloration. The sample bags were field-screened using a photo-ionization detector (PID) as a qualitative indicator of potential volatile organic compounds. Soil sample intervals, soil description and PID readings are presented on the boring logs in Appendix B.

Groundwater was encountered in one boring (70/4-SE, Map ID #2) at a depth of approximately 7 feet. A polyvinyl-chloride (PVC) temporary casing with a slotted screen section was inserted into the boring and we then collected a groundwater grab sample using dedicated tubing tipped with a check valve lowered through the interior of the PVC casing. The groundwater grab sample was decanted into three laboratory-provided, hydrochloric acid-preserved, 40-milliliter volatile organic analysis vials and two one-liter amber glass containers. The sample containers were labeled and placed on ice in a cooler for transportation to the laboratory. En route to ATL, one of the one-liter amber glass containers broke.

An unidentified UST was encountered at a depth of approximately 4.5 feet while drilling boring 70/5-SW (Map ID #4). No soil was recovered from the boring shallower than 4.5 feet and upon encountering the UST, the drilling rods dropped from 4.5 to 7.2 feet. Approximately 2.5 feet of fluid with a strong gasoline odor was measured in the boring using a tape measure. We backfilled the boring with bentonite chips and capped it at the surface with concrete.

QA/QC procedures were performed during the field sampling activities. These procedures included decontamination of sampling equipment before each boring was advanced and providing COC documentation for each soil sample submitted to the laboratory. The soil sampling equipment was cleansed between each boring by washing the equipment with an Alconox™ solution followed by a double rinse with deionized water. The field sampling activities were performed under the supervision of Geocon's TO Manager. The direct-push borings were backfilled with bentonite chips and capped with an approximate 3-inch-thick layer of cold-patch asphalt, concrete or native soil, whichever matched the surrounding ground surface.

4.5 Geophysical Survey

On March 18, 2014, AGS performed a geophysical survey in two locations adjacent to 420 E Street (Map ID #4) based on observations made by Geocon and AGS staff during the utility markout and drilling activities. AGS surveyed one location along the southwest corner of SR-70 and 5th Street (Photo 4) where a potential UST was encountered during the direct-push sampling activities. AGS also surveyed a second location beneath the sidewalk along the eastern boundary of 420 E Street, approximately 120 feet south of the first survey location. Potential fill and vent pipes (Photo 5) were identified as well as a placard inscribed with the words “Associated Flying A Gasoline” during the utility markout for this location. AGS performed the survey using a Geonics EM61 electromagnetic metal-detector, a Fisher M-Scope metal detector, and a GSSI SIR-3000 ground penetrating radar (GPR) system. A copy of the geophysical survey report is in Appendix C.

4.6 Laboratory Analyses

Selected soil samples collected within the project boundaries were submitted to ATL for the following analyses under standard ten-day turn-around-time (TAT).

- Seventeen soil samples were analyzed for gasoline analysis package including gasoline-range organics (GRO) following EPA Test Method 8015B (modified) and benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tert-butyl ether (MTBE) following EPA Test Method 8260B.
- Twenty-five soil samples were analyzed for diesel- and oil-range organics (DRO and ORO) following EPA Test Method 8015B.
- Twenty-one soil samples were analyzed for Title 22 metals following EPA Test Methods 6010B and 7471A (mercury).

The remaining soil samples were held by the laboratory pending receipt of the initial data. Based on review of the initial data we assigned the following analyses:

- Two additional soil samples were analyzed for total lead following EPA Test Method 6010B under five-day TAT.
- Two soil samples were analyzed for WET soluble lead using EPA Test Method 6010B under five-day TAT.
- Two soil samples were analyzed for WET soluble chromium using EPA Test Method 6010B under five-day TAT.
- One soil sample was analyzed for TCLP soluble lead EPA Test Method 6010B under five-day TAT.

The groundwater sample obtained from boring 70/4-SE was analyzed for GRO, DRO and ORO following EPA Test Method 8015B (modified for GRO).

In accordance with Caltrans Contract 03A2132, ATL homogenized the soil samples prior to analysis for metals. QA/QC procedures were conducted for each method of analysis with specificity for each analyte listed in the test method's QA/QC. The laboratory QA/QC procedures included the following:

- One method blank for every ten samples, batch of samples or type of matrix, whichever is more frequent.
- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever is more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix, whichever is more frequent, with the spike made at ten times the detection limit or at the analyte level.

The COC documentation was reviewed for accuracy and completeness prior to submitting the soil samples to the laboratory. The laboratory was instructed to handle, analyze, and conduct QA/QC procedures in accordance with Caltrans Contract 03A2132. Copies of the laboratory analytical reports including QC summary and COC documentation are in Appendix D.

5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Soil and Hydrogeologic Conditions

Soils conditions encountered in the borings consisted of fill soils generally comprised of road base gravels and sands, topsoil, and undifferentiated fill containing trace amounts of debris fill materials overlying natural alluvial deposits. Fill materials were encountered as deep as 8 feet and consist of sandy gravel, gravelly sand, silty fine sand, fine to coarse sand, sandy silt, and sandy silty clay. The underlying alluvial deposits generally consist of fine-grained silt and clay deposits with intermittent layers of sand. In the absence of natural texture, rootlets, and mottling, the native materials appear to have been used in some locations as backfill making it difficult to distinguish the bottom depth of the fill deposits. Refusal conditions due to hard soil were encountered in nine borings at depths between 8 and 10 feet.

Trace amounts of debris consisting of brick, glass, and metal fragments were encountered in fill material in 4 of 17 borings (20/H-SW, 20/Lemon-NE, 70/4-SE, and 70/5-NE). The debris was generally limited in size (<0.5-inch long) with the exception of borings 70/5-NE (Map ID #6) and 70/4-SE (Map ID #2), where larger (>1-inch long) pieces of brick were observed at 2 and 3 feet deep, respectively. No indication of soil impacts (staining, odor, ash) were observed in conjunction with the debris. The Pacific Legacy archaeologist in the field examined the fill materials and stated in the field that none of the debris was of cultural significance.

Field indicators of petroleum hydrocarbon impacts (e.g. staining, odors, elevated PID readings) were identified at three locations within the project boundaries. Greenish gray silty clay with faint petroleum hydrocarbon odor was encountered at depths between 5 and 12 feet in boring 20/H-SE (Map ID #15). Olive grey layers of silty clay with faint petroleum hydrocarbon odor were encountered at depths between 4 and 12 feet in boring 70/5-NW (Map ID #5). A grayish brown layer of silty fine sand was encountered at depths between 5.25 and 6 feet in boring 70/5-NE (Map ID #6).

Groundwater was only encountered in boring 70/4-SE (Map ID #2) at a depth of 7 feet. Based on groundwater monitoring well data for adjacent LUST facility (Sierra Central Credit Union), depth to groundwater in the nearby vicinity of this boring varies from 15 to 26 feet. This suggests that the "groundwater" encountered in 70/4-SE is perched on top of the concrete encountered at 8 feet deep.

Boring logs depicting the soil conditions encountered, soil sample locations and PID readings are in Appendix B.

5.2 Geophysical Survey Results

Corner of SR-70 and 5th Street

AGS identified a 4.5-foot-wide by 7-foot-long anomaly centered around boring location 70/5-SW using their EM61. The definitive extent of the UST was not determined due to interference from numerous underground utilities and surficial metal objects. The UST did not register using GPR as the depth to the top of the UST (approximately 4.5 feet) is deeper than the penetration depth of the GPR signal (3 feet).

Eastern Boundary of 420 E Street

AGS identified a 5-foot-wide by 9-foot-long UST beneath the fill and vent pipes using their EM61. The UST did not register using GPR as the depth to the top of the UST is deeper than the penetration depth of the GPR signal (3 feet).

5.3 Soil Analytical Results – Petroleum Hydrocarbons

A summary of the petroleum hydrocarbon soil sample analytical results is on Table 3. The laboratory reports and chain-of-custody documentation are in Appendix D.

GRO, BTEX and MTBE were not detected at or exceeding the laboratory reporting limits (RLs) in each soil sample analyzed.

DRO and ORO were detected in each soil sample at relatively low concentrations ranging from 1.5 to 13 mg/kg. These levels are below the SFRWQCB's ESL for commercial soil of 110 and 500 mg/kg, respectively, and are likely associated with naturally occurring organics.

5.4 Soil Analytical Results – Title 22 Metals

A summary of the Title 22 metals soil sample analytical results is on Table 4. The laboratory reports and chain-of-custody documentation are in Appendix D.

The following Title 22 metals were detected exceeding RLs in the 23 soil samples analyzed:

Antimony – <2.0 mg/kg in 21 samples
Arsenic – 3.1 to 12 mg/kg in 21 samples
Barium – 77 to 150 mg/kg in 21 samples
Beryllium – <1.0 mg/kg in 21 samples
Cadmium – <1.0 mg/kg in 21 samples
Chromium – 25 to 60 mg/kg in 21 samples
Cobalt – 5.9 to 18 mg/kg in 21 samples
Copper – 25 to 44 mg/kg in 21 samples
Lead – 3.5 to 130 mg/kg in 23 samples
Molybdenum – <1.0 mg/kg in 21 samples
Nickel – 30 to 75 mg/kg in 21 samples
Selenium – 1.1 to 2.3 mg/kg in 18 of 21 samples
Silver – <1.0 mg/kg in 21 samples
Thallium – <1.0 mg/kg in 21 samples
Vanadium – 41 to 69 mg/kg in 21 samples
Zinc – 28 to 98 mg/kg in 21 samples
Mercury – 0.17 and 0.74 in 2 of 21 samples

Other than lead, the remaining Title 22 metal detections generally fall within the range of naturally occurring background levels. Arsenic was detected at concentrations above the commercial/industrial CHHSL though within the range of naturally occurring background.

Two soil samples contained total lead concentrations at or above 50 mg/kg, ten times the STLC value for lead of 5.0 mg/l. WET soluble lead was detected in the two soil samples analyzed at 3.5 and 17 mg/l, the latter exceeding the California STLC hazardous waste criteria for lead. TLCP soluble lead for the soil sample with the highest reported WET soluble lead concentration (70/4-SE-3.5) was detected at 0.24 mg/l, which is less than federal RCRA hazardous waste criteria of 5.0 mg/l.

Nine soil samples contained total chromium concentrations at or above 50 mg/kg, ten times the STLC value for chromium of 5.0 mg/l. WET soluble chromium was not detected in the two soil samples analyzed with the highest reported total chromium concentrations of 59 and 60 mg/kg. Therefore, chromium is not a potential contaminant of concern.

5.5 Groundwater Analytical Results – Petroleum Hydrocarbons

The groundwater analytical results are summarized on Table 5. Laboratory reports and chain-of-custody documentation are presented in Appendix D.

GRO, DRO, and ORO were not detected above laboratory RLs for the grab groundwater sample collected from boring 70/4-SE.

5.6 Laboratory Data Validation

Review of ATL's QA/QC reports indicate acceptable surrogate recoveries and non-detect results for the method blanks. Matrix spikes (MS) and/or matrix spike duplicates (MSD) for numerous samples were outside recovery criteria; however, the data were validated by the laboratory control sample (LCS). The relative percent difference (RPD) for MS/MSD samples was outside the RPD limit, stating "RPD value outside acceptance criteria. Calculation is based on raw values". RPD values for several duplicate samples were outside acceptance criteria due to possible matrix interference. The data show acceptable non-detect results for the method blanks and acceptable recoveries and RPDs for the rest of the matrix spikes and duplicates. Based on the laboratory QA/QC data, no additional qualification of the data presented herein is necessary, and the data are of sufficient quality for the purposes of this report.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Soil Impacts

Field indicators (i.e. staining and odors) of petroleum hydrocarbon soil impacts were only identified at three locations within the project boundaries. However, the lack of elevated PID readings and the faintness of the odor suggest that the soil impacts are from older degraded fuel releases. GRO and BTEX were not detected at concentrations at or exceeding their RLs for these or any of the soil samples analyzed. Low-level DRO and ORO concentrations were detected in each of the soil samples analyzed. Since DRO and ORO concentrations were consistently low and there was no significant increase in concentrations from samples collected from borings with field indicators of petroleum hydrocarbon impacts compared to those without, the diesel- and oil-range concentrations are likely attributable to naturally occurring organics.

The presence of petroleum hydrocarbons in soil (regardless of the source(s)) may restrict offsite disposal/reuse options. Excavated soil exhibiting obvious field indicators of petroleum hydrocarbon contamination should be stockpiled and sampled for laboratory analysis to determine acceptable offsite disposal/reuse options. Areas of undocumented apparent contamination identified during construction should be isolated from surrounding non-impacted areas and further evaluated for appropriate action.

Trace amounts of debris consisting of brick, glass, and metal fragments were identified in 4 of 17 borings. No indication of soil impacts (staining, odor, ash) were observed in conjunction with fill materials containing debris. Elevated lead levels above California hazardous waste criteria was identified in the fill material in boring 70/4-SE at a depth of 3.5 feet. We recommend that excavated soil from this location be analyzed for lead content to determine appropriate disposal options.

6.2 Groundwater Impacts

Groundwater in the project area has been impacted by adjacent refueling facility releases. Based on monitoring well data, current groundwater levels (20 to 25 feet) are deeper than the planned construction excavation depth of 12 feet. Therefore, the presence of petroleum impacted groundwater should not impact planned construction activities.

6.3 Underground Storage Tanks and ROW Parcel Acquisition

A total of at least seven abandoned USTs have been identified at three locations within the existing SR-70 ROW at the northeast corner of 4th Street (Map ID. 3) and southwest corner of 5th Street (Map ID 4). The legal responsibility for these USTs should be confirmed with the City of Marysville and adjacent parcel owners to determine who is financially responsible for removing the tanks and any identified contamination requiring remediation. It is anticipated that the tanks at the intersection corners will require removal prior to construction of planned improvements.

Undocumented USTs, dry wells, or other subsurface features not associated with active buried utilities that are identified during the construction activities should be properly removed/abandoned in-place in accordance with Yuba County permitting requirements where applicable.

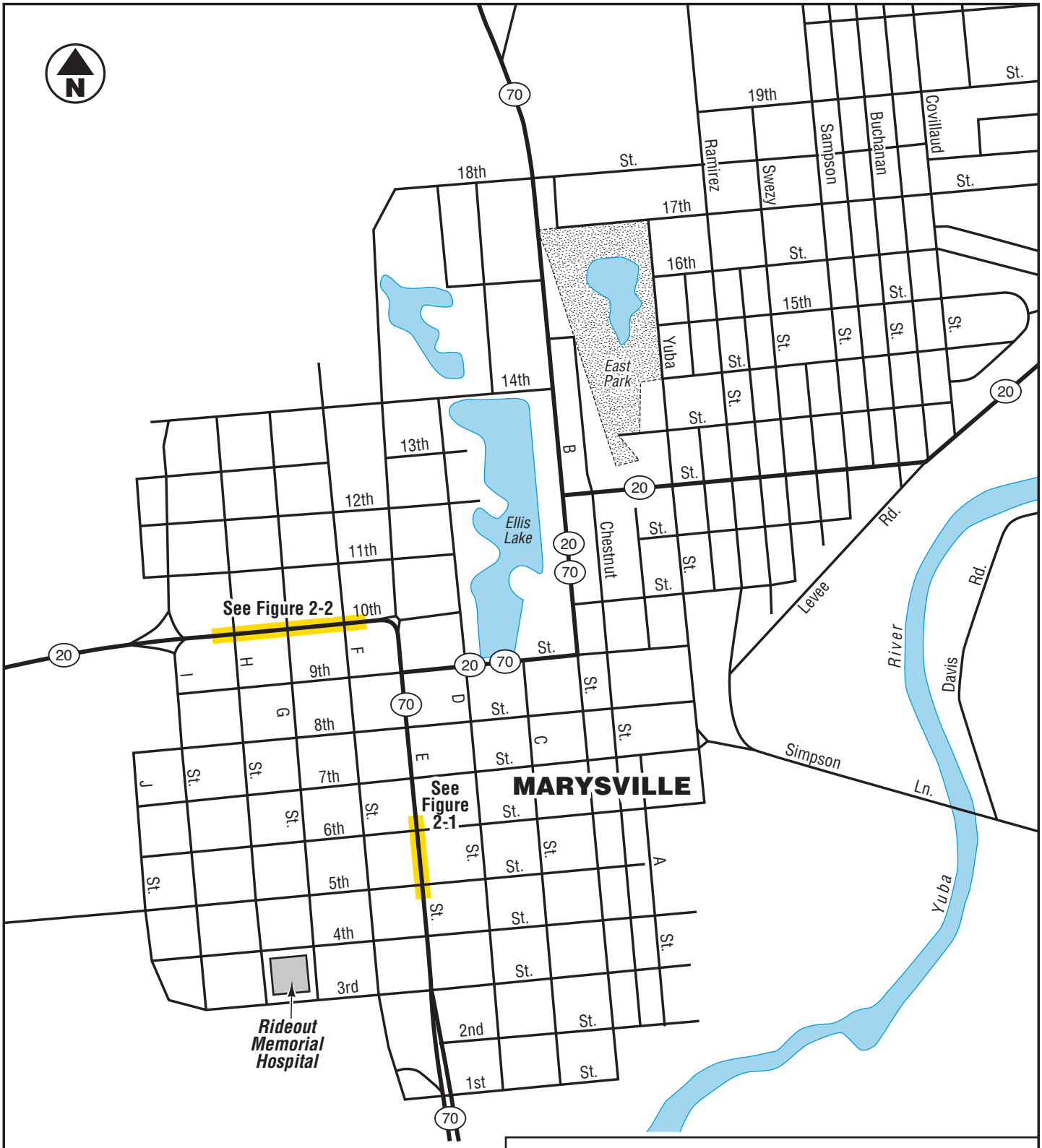
6.4 Worker Protection

Per Caltrans' requirements, the contractor(s) should prepare a project-specific health and safety plan to prevent or minimize worker exposure to petroleum hydrocarbons and lead in soil (Lead Compliance Plan). The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other health and safety protocols and procedures for handling of soil.

7.0 REPORT LIMITATIONS

This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to contaminant sources other than those specified herein. Therefore, this report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. We strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.



PROJECT LIMITS

0 1/4

Scale in Miles

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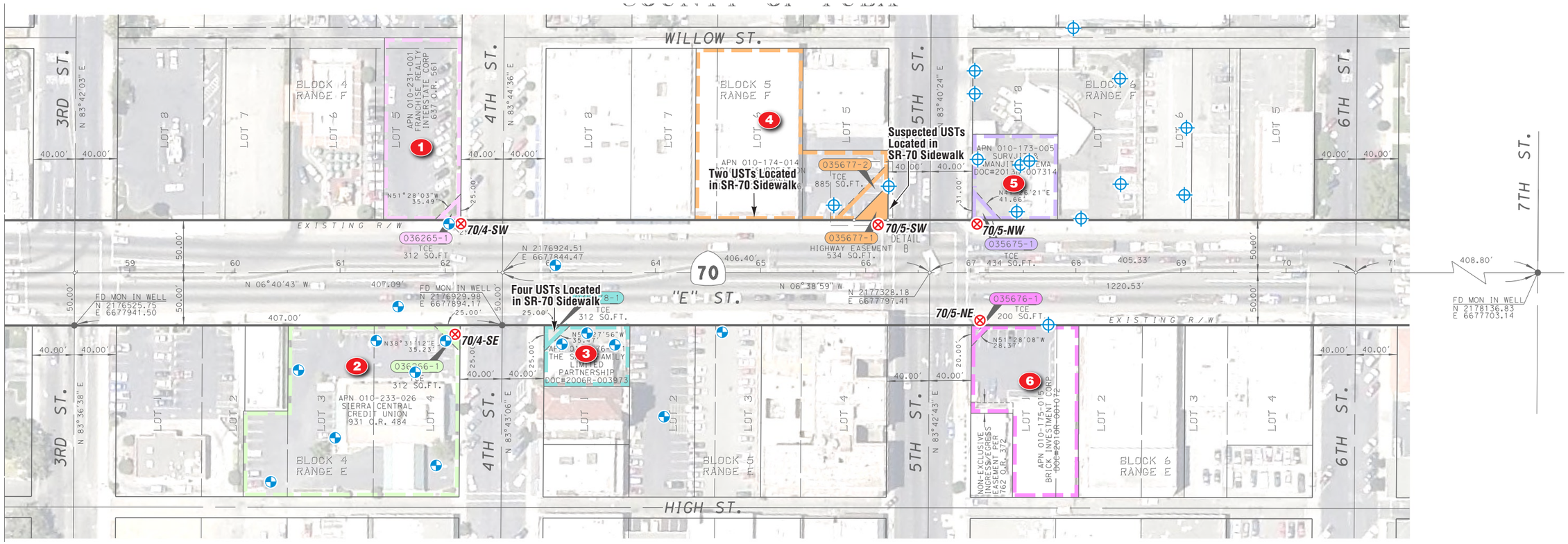
Marysville Highway Improvement

Yuba County, California

VICINITY MAP

GEOCON Proj. No. S9805-01-23

Task Order No. 23 | April 2014 | Figure 1



LEGEND:

- 70/4-SE ⊗ Approximate Boring Location
- Approximate Monitoring Well Location
- Former Monitoring Well Location

1. McDonalds Parking Lot – 504 4th Street
2. Sierra Central Credit Union – 422 4th Street
3. Subway – 401 E Street
4. Vacant Lot – 420 E Street
5. Shell Gas Station – 501 5th Street
6. D&D Motorsports – 431 5th Street

0 100
Scale in Feet

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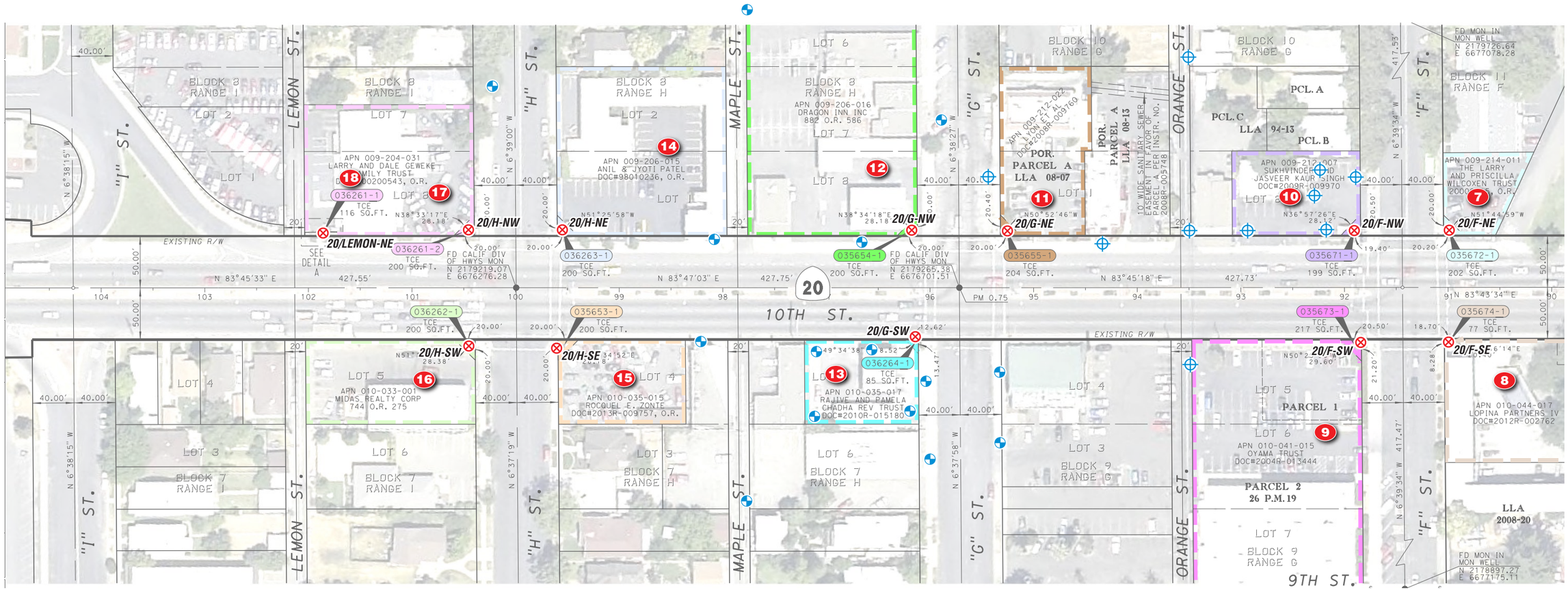
Marysville Highway Improvement Project

Yuba County, California	**SITE PLAN – SR-70 Between 4th and 5th Streets**	
GEOCON Proj. No. S9805-01-23		
Task Order No. 23	April 2014	Figure 2-1



LEGEND:

- 70/4-SE ⊗ Approximate Boring Location
- Approximate Monitoring Well Location
- Former Monitoring Well Location

7. Wilcoxen Auto Sales – 529 10th Street
8. Radio Shack – 908 E Street
9. Walgreens – 602 10th Street
10. Yuba Food & Liquor Mart – 603 10th Street
11. Taco Bell – 631 10th Street
12. Java Detour – 1014 G Street
13. Econo Gas – 704 10th Street
14. America's Best Value Inn – 721 10th Street
15. Automaxx Car Lot – 726 10th Street
16. Midas – 928 H Street
17. Former Car Dealership – 805 10th Street
18. Former Car Dealership – 815 10th Street

N

0 100

Scale in Feet

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Marysville Highway Improvement Project

Yuba County, California	**SITE PLAN – SR-20 Between H and F Streets**	
GEOCON Proj. No. S9805-01-23		
Task Order No. 23	April 2014	Figure 2-2

1921 SANBORN MAP

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Marysville Highway Improvement Project		
GEOCON Proj. No. S9805-01-23	Yuba County, California	
Task Order No. 23	April 2014	Figure 3-1

1948 SANBORN MAP

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GEOCON Proj. No. S9805-01-23	Yuba County, California	
Task Order No. 23	April 2014	Figure 3-2

Map ID No. 1 Boring 70/4-SW and groundwater monitoring well in front of McDonalds. View is towards the northwest.

Map ID No. 2 Boring 70/4-SE in front of Sierra Central Credit Union. View is towards the southwest.

Map ID No. 3 Southwest corner of 401 E St. in front of Subway. No borings were advanced on this parcel. View is towards the south-southeast

PHOTOS NO. 1 – 3

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Task Order No. 23	April 2014

Map ID No. 4 Boring 70/5-SW in front of vacant parking lot. View is towards the north. UST encountered at 4.5 feet deep.

Map ID No. 4 Fuel USTs beneath the sidewalk in front of 420 E Street. View is towards the west.

Map ID No. 5 Boring 70/5-NW in front of Shell Gas Station. View is towards the southeast.

PHOTOS NO. 4 – 6

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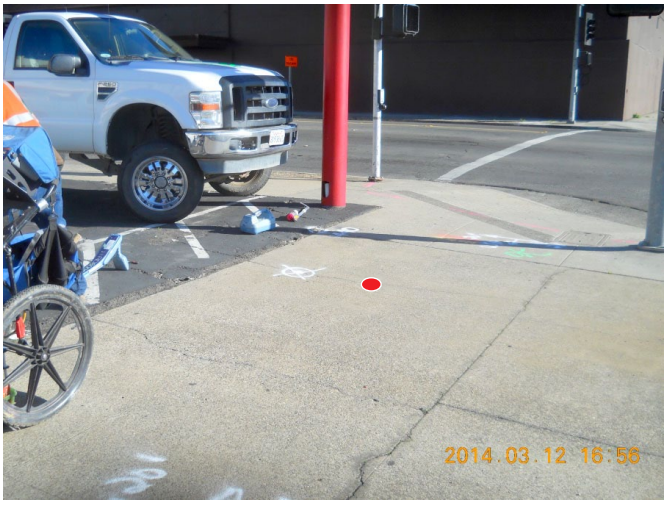
Task Order No. 23	April 2014



Map ID No. 6 Boring 70/5-NE in front of D&D Motorsports. View is towards the south.

Map ID No. 7 Boring 20/F-NE in front of Wilcoxen Auto Sales. View is towards the northeast.

Map ID No. 8 Boring 20/F-SE in front of Radio Shack. View is towards the east.

PHOTOS NO. 7 – 9

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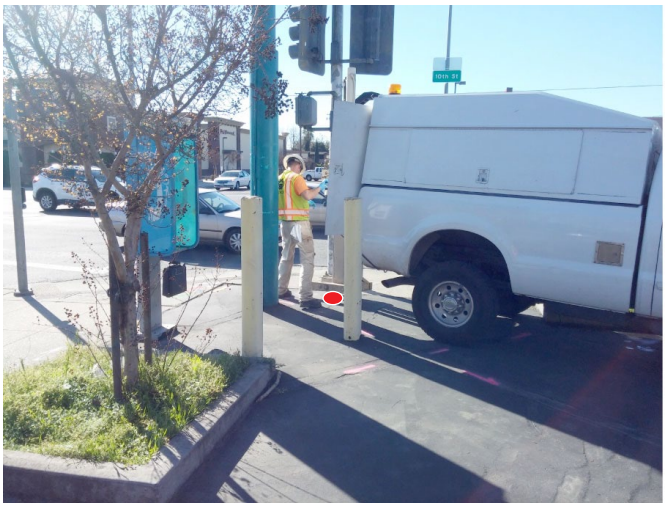
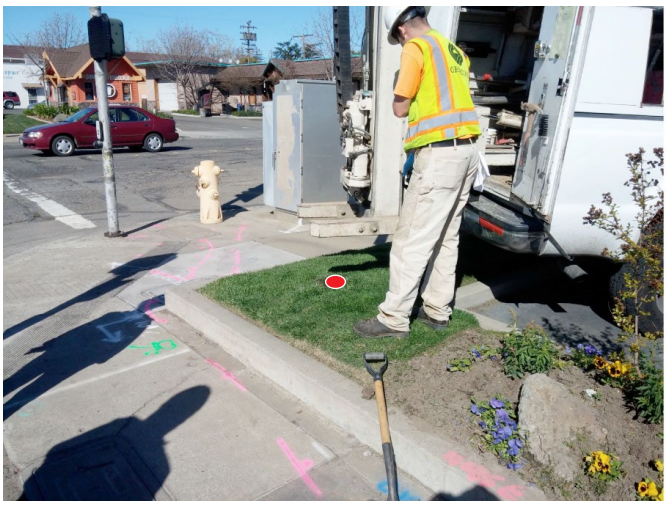
Task Order No. 23	April 2014

Map ID No. 9 Boring 20/F-SW in front of Walgreens. View is towards the west.



Map ID No. 10 Boring 20/F-NW in front of Yuba Food & Liquor Mart. View is towards the south-southeast.



Map ID No. 11 Boring 20/G-NE in front of Taco Bell. View is towards northwest.

PHOTOS NO. 10 – 12

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Task Order No. 23	April 2014

Map ID No. 12 Boring 20/G-NW in front of Java Detour. View is toward the northeast.

Map ID No. 13 Boring 20/G-SW in front of Econo Gas. View is towards the east-southeast.

Map ID No. 14 Boring 20/H-NE in front of America's Best Value Inn. View is towards the north.

PHOTOS NO. 13 – 15

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Task Order No. 23	April 2014

Map ID No. 15 Boring 20/H-SE in front of Automaxx Car Lot. View is towards the northeast.

Map ID No. 16 Boring 20/H-SW in front of Midas. View is towards the north-northwest.

PHOTOS NO. 16 – 17

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Marysville Highway Improvement Project	
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Task Order No. 23	April 2014

Map ID No. 17 Boring 20/H-NW in front of former car dealership.
View is towards the west.

Map ID No. 18 Boring 20/Lemon-NE in rear of former car dealership.
View is towards the east.

PHOTOS NO. 18 – 19

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Marysville Highway Improvement Project	
GEOCON Proj. No. S9805-01-23	Yuba County, California
Task Order No. 23	April 2014

TABLE 1
SUMMARY OF RIGHT-OF-WAY PARCEL ACQUISITIONS
MARYSVILLE HIGHWAY IMPROVEMENT PROJECT
YUBA COUNTY, CALIFORNIA

Map ID No.	Intersection	PTE #	APN	Address	Facility	ROE	Historical	Prior Assessment - Regulatory Status	Boring ID	Notes
SR-70 & 4th Street										
1	Southwest	204020	010-231-001-000	504 4th St.	McDonalds Parking Lot	No	Former garage facility (1921 Sanborn) and adjacent Gas & Oil (1948 Sanborn)	Inactive monitoring well MW-9 associated with Sierra Central Credit Union (southeast corner of SR-70 and 4th) in adjacent sidewalk - no significant groundwater impacts detected and sampling discontinued.	70/4-SW	Boring in SR-70 sidewalk due to no ROE private property access.
2	Southeast	204021	010-233-026-000	422 4th St.	Sierra Central Credit Union	Yes	Former Oil & Gas facility (1921 & 1948 Sanborn)	Open LUST case - petroleum soil and groundwater impacts, onsite/offsite monitoring wells including wells within the SR-70 ROW.	70/4-SE	
3	Northeast	204022	010-176-011-000	401 E St.	Subway	Yes	Former Oil & Gas facility (1948 Sanborn)	Open LUST case - petroleum soil and groundwater impacts, existing abandoned USTs and onsite/offsite monitoring wells including wells within the SR-70 ROW. No boring performed due to USTs within SR-70 sidewalk area and within or near parcel/TCE acquisitions.	NA	
SR-70 & 5th Street										
4	Southwest	204023	010-174-014-000	420 E St.	Vacant Lot	No	Former Oil & Gas facilities (1921 and 1948 Sanborn)	No known or publicly available prior assessment or regulatory case file. Former monitoring wells MW-6 and MW-8 associated with the Shell gasoline station (northwest corner of SR-70 and 5th) located in adjacent 5th Street sidewalk and onsite - petroleum groundwater impacts reported for well MW-6 in 5th Street sidewalk.	70/5-SW	Boring in SR-70 sidewalk due to no ROE private property access. Encountered suspected UST in boring and confirmed during subsequent geophysical survey. Evidence of two additional USTs further south in SR-70 sidewalk on same parcel.
5	Northwest	204024	010-173-005-000	501 5th St.	Shell Gas Station	Yes	Former Oil & Gas facility (1948 Sanborn)	Recently closed (January 2014) LUST case and operational gasoline station. All associated monitoring wells have been destroyed. Remaining petroleum soil and groundwater impacts. Former UST locations at parcel/TCE acquisition.	70/5-NW	Boring in SR-70 sidewalk due to operational gasoline station.
6	Northeast	204025	010-175-015-000	431 5th St.	D&D Motorsports	No	Former Oil & Gas facility (1948 Sanborn)	No known or publicly available prior assessment or regulatory case file.	70/5-NE	Boring in SR-70 sidewalk due to no ROE private property access.
SR-20 & F Street										
7	204026	204026	009-214-011-000	529 10th St.	Wilcoxen Auto Sales	Yes	Suspected former gasoline station based on field and historical aerial photographic evidence.	No known or publicly available prior assessment or regulatory case file. No significant soil impacts identified in prior boring B13 (Maryville Pavement Rehabilitation Project EA 03-0A5801) located in adjacent SR-20.	20/F-NE	
8	204027	204027	010-044-017-000	908 E St.	Radio Shack	Yes	Former residential development (1921 and 1948 Sanborn)	No known or publicly available prior assessment or regulatory case file. No significant soil impacts identified in prior boring B23 (Maryville Pavement Rehabilitation Project EA 03-0A5801) located in adjacent SR-20.	20/F-SE	
9	204028	204028	010-041-015-000	602 10th St.	Walgreens	Yes	Former residential and commercial development (1921 and 1948 Sanborn)	No known or publicly available prior assessment or regulatory case file.	20/F-SW	
10	204029	204029	009-212-007-000	605 10th St.	Yuba Food & Liquor Mart	Yes	Former Jackpot gasoline station,	Closed (February 2011) LUST case for former gasoline station. All associated monitoring wells have been destroyed. Remaining petroleum soil and groundwater impacts do not appear to exist within the parcel/TCE acquisitions.	20/F-NW	
SR-20 & G Street										
11	204030	204030	009-212-022-000	631 10th St.	Taco Bell	Yes	Former residential and commercial development (1921 and 1948 Sanborn)	No known or publicly available prior assessment or regulatory case file.	20/G NE	
12	204031	204031	009-206-016-000	1014 G St.	Java Detour	Yes	Former gas station	No known or publicly available prior assessment or regulatory case file.	20/G-NW	
13	204032	204032	010-035-017-000	704 10th St.	Econo Gas	Yes	Gas station since at least	Open LUST case - petroleum soil and groundwater impacts, onsite/offsite monitoring wells including wells within the SR-20 ROW.	20/G-SW	
SR-20 & H Street										
14	204033	204033	009-206-015-000	721 10th St	America's Best Value Inn	Yes	Former residential and commercial development (1921 and 1948 Sanborn)	No known or publicly available prior assessment or regulatory case file.	20/H-NE	
15	204034	204034	010-035-015-000	726 10th St	Automaxx Car Lot	Yes	Former residential and commercial development (1921 and 1948 Sanborn)	No known or publicly available prior assessment or regulatory case file.	20/H-SE	
16	204035	204035	010-033-001-000	928 H St	Midas	Yes	Former residential and commercial development (1921 and 1948 Sanborn)	No known or publicly available prior assessment or regulatory case file.	20/H-SW	
17	204036	204036	009-204-031-000	805 10th St	Former Car Dealership	Yes	Former residential and commercial development (1921 and 1948 Sanborn)	No known or publicly available prior assessment or regulatory case file.	20/H-NW	
18	204037	204037	009-204-030-000	815 10th St	Former Car Dealership	Yes	Former residential and commercial development (1921 and 1948 Sanborn)	No known or publicly available prior assessment or regulatory case file.	20/LEMON-NE	

TABLE 2
SUMMARY OF SOIL BORING COORDINATES
MARYSVILLE HIGHWAY IMPROVEMENT PROJECT
YUBA COUNTY, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE
SR-70 & 4th Street			
70/4-SW	03/13/14	39.138948803	-121.590544161
70/4-SE	03/13/14	39.138998442	-121.590213093
SR-70 & 5th Street			
70/5-SW	03/13/14	39.140060926	-121.590714232
70/5-NW	03/13/14	39.140360749	-121.590733048
70/5-NE	03/14/14	39.140363091	-121.590400403
SR-20 & F Street			
20/F-NE	03/12/14	39.145828077	-121.592737642
20/F-SE	03/13/14	39.145541774	-121.592732976
20/F-SW	03/13/14	39.145494235	-121.593014805
20/F-NW	03/12/14	39.145814675	-121.593090616
SR-20 & G Street			
20/G-NE	03/12/14	39.145699641	-121.594512392
20/G-NW	03/12/14	39.145595704	-121.595740696
20/G-SW	03/13/14	39.145413544	-121.594542691
SR-20 & H Street			
20/H-NE	03/12/14	39.145566205	-121.596028364
20/H-SE	03/13/14	39.145264779	-121.595747068
20/H-SW	03/13/14	39.145267088	-121.596021990
20/H-NW	03/12/14	39.145546733	-121.596575569
20/LEMON-NE	03/12/14	39.145703641	-121.594254802

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - PETROLEUM HYDROCARBONS
MARYSVILLE HIGHWAY IMPROVEMENT PROJECT
YUBA COUNTY, CALIFORNIA

SAMPLE ID	SAMPLE DATE	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	BTEX (µg/kg)	MTBE (µg/kg)
SR-70 & 4th Street						
70/4-SW-7.5	3/13/2014	<1.0	4.2	5.7	ND	<5.0
70/4-SE-3.5	3/13/2014	<1.0	6.9	13	ND	<5.0
70/4-SE-7.5	3/13/2014	<1.0	4.4	5.7	ND	<5.0
SR-70 & 5th Street						
70/5-NW-3.5	3/13/2014	<1.0	3.5	4.6	ND	<5.0
70/5-NW-7.5	3/13/2014	<1.0	2.4	3.1	ND	<5.0
70/5-NW-11.5	3/13/2014	<1.0	2.4	3.0	ND	<5.0
70/5-NE-3.5	3/14/2014	<1.0	4.8	6.6	ND	<5.0
70/5-NE-6.0	3/14/2014	<1.0	2.9	3.9	ND	<5.0
70/5-NE-11.5	3/14/2014	<1.0	3.0	4.3	ND	<5.0
SR-20 & F Street						
20/F-NE-3.5	3/12/2014	<1.0	4.4	4.8	ND	<5.0
20/F-SE-1.5	3/13/2014	---	4.1	4.6	---	---
20/F-SE-6.5	3/13/2014	<1.0	2.4	3.3	ND	<5.0
20/F-SW-3.5	3/13/2014	---	2.4	3.3	---	---
20/F-NW-3.5	3/12/2014	---	4.3	6.5	---	---
SR-20 & G Street						
20/G-NE-3.5	3/12/2014	---	3.0	4.1	---	---
20/G-NW-3.5	3/12/2014	<1.0	2.8	3.9	ND	<5.0
20/G-SW-1.0	3/13/2014	---	2.8	3.7	---	---
20/G-SW-7.5	3/13/2014	<1.0	3.6	4.4	ND	<5.0
SR-20 & H Street						
20/H-NE-3.5	3/12/2014	---	2.7	4.2	---	---
20/H-SE-3.5	3/13/2014	<1.0	2.3	2.2	ND	<5.0
20/H-SE-7.5	3/13/2014	<1.0	2.5	3.1	ND	<5.0
20/H-SE-11.5	3/13/2014	<1.0	3.3	3.8	ND	<5.0
20/H-SW-3.5	3/13/2014	---	1.5	2.1	---	---
20/H-NW-3.5	3/12/2014	<1.0	4.4	4.9	ND	<5.0
20/LEMON-NE-3.5	3/12/2014	---	3.5	4.0	---	---
Shallow Soil ESLs						
Residential	Table A-1	100	100	100	NA	23
Commercial	Table A-2	500	110	500	NA	23
Direct Exposure to Soil ESLs						
Residential	Table K-1	770	240	10,000	NA	39
Commercial/Industrial Worker	Table K-2	4000	1,100	100,000	NA	190
Construction/Trench Worker	Table K-3	2,700	900	28,000	NA	3800

Notes:
GRO = gasoline-range organics
DRO = diesel-range organics
ORO = motor oil-range organics
BTEX = benzene, toluene, ethylbenzene, and total xylenes
MTBE = methyl tert-butyl ether
mg/kg = Milligrams per kilogram
µg/kg = Micrograms per kilogram
<, ND = Less than laboratory reporting limits
ESLs = Environmental Screening Levels, Tables A-1, A-2, K-1, K-2, and K-3 (December 2013).

TABLE 4

SUMMARY OF ANALYTICAL RESULTS - TITLE 22 METALS

MARYSVILLE HIGHWAY IMPROVEMENT PROJECT

YUBA COUNTY, CALIFORNIA

ANALYTE	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
SAMPLE ID	Results reported in milligrams per kilogram																
SR-70 & 4th Street																	
70/4-SW-7.5	<2.0	4.3	89	<1.0	<1.0	38	12	28	5.1	<1.0	36	1.6	<1.0	<1.0	51	30	<0.10
70/4-SE-3.5	<2.0	12	110	<1.0	<1.0	38	9.6	33	130 (17) [0.24]	<1.0	33	1.4	<1.0	<1.0	47	80	0.74
70/4-SE-7.5	<2.0	4.1	77	<1.0	<1.0	46	12	33	20	<1.0	46	1.7	<1.0	<1.0	44	41	<0.10
SR-70 & 5th Street																	
70/5-NW-3.5	<2.0	3.6	83	<1.0	<1.0	47	5.9	34	6.3	<1.0	37	1.9	<1.0	<1.0	55	28	<0.10
70/5-NW-7.5	<2.0	4.7	110	<1.0	<1.0	52	16	44	5.1	<1.0	75	2.1	<1.0	<1.0	57	39	<0.10
70/5-NW-11.5	<2.0	5.1	140	<1.0	<1.0	59	16	41	5.0	<1.0	54	1.8	<1.0	<1.0	60	46	<0.10
70/5-NE-3.5	<2.0	5.1	110	<1.0	<1.0	59 (<1.0)	15	39	6.7	<1.0	43	2.3	<1.0	<1.0	65	38	<0.10
SR-20 & F Street																	
20/F-NE-3.5	<2.0	3.9	130	<1.0	<1.0	43	12	35	6.2	<1.0	33	<1.0	<1.0	<1.0	53	35	<0.10
20/F-SE-6.5	<2.0	3.5	84	<1.0	<1.0	51	6.9	32	4.6	<1.0	32	1.5	<1.0	<1.0	44	33	<0.10
20/F-SW-3.5	<2.0	5.3	120	<1.0	<1.0	60 (<1.0)	17	37	22	<1.0	56	1.9	<1.0	<1.0	66	95	<0.10
20/F-NW-3.5	<2.0	5.4	120	<1.0	<1.0	50	16	36	6.4	<1.0	46	1.7	<1.0	<1.0	62	36	<0.10

TABLE 4

SUMMARY OF ANALYTICAL RESULTS - TITLE 22 METALS

MARYSVILLE HIGHWAY IMPROVEMENT PROJECT

YUBA COUNTY, CALIFORNIA

ANALYTE	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
SAMPLE ID	Results reported in milligrams per kilogram																
SR-20 & G Street																	
20/G-NE-3.5	<2.0	5.1	140	<1.0	<1.0	56	15	35	6.7	<1.0	42	1.2	<1.0	<1.0	69	34	<0.10
20/G-NW-3.5	<2.0	4.2	130	<1.0	<1.0	47	15	33	6.1	<1.0	42	1.2	<1.0	<1.0	56	39	<0.10
20/G-SW-7.5	<2.0	4.4	110	<1.0	<1.0	48	14	35	4.5	<1.0	50	1.4	<1.0	<1.0	63	34	<0.10
SR-20 & H Street																	
20/H-NE-3.5	<2.0	3.8	140	<1.0	<1.0	47	14	32	6.7	<1.0	42	1.1	<1.0	<1.0	55	31	<0.10
20/H-SE-3.5	<2.0	3.4	150	<1.0	<1.0	25	10	37	5.4	<1.0	30	<1.0	<1.0	<1.0	41	32	<0.10
20/H-SE-7.5	<2.0	5.3	110	<1.0	<1.0	56	18	43	5.3	<1.0	56	1.8	<1.0	<1.0	67	47	<0.10
20/H-SE-11.5	<2.0	3.1	120	<1.0	<1.0	41	10	35	3.5	<1.0	54	1.5	<1.0	<1.0	41	36	<0.10
20/H-SW-3.5	<2.0	9.9	91	<1.0	<1.0	36	9.5	25	88 (3.5)	<1.0	30	<1.0	<1.0	<1.0	42	98	0.17
20/H-SW-6.5	---	---	---	---	---	---	---	---	5.4	---	---	---	---	---	---	---	---
20/H-SW-7.5	---	---	---	---	---	---	---	---	3.8	---	---	---	---	---	---	---	---
20/H-NW-3.5	<2.0	4.1	110	<1.0	<1.0	43	12	31	6.3	<1.0	38	1.1	<1.0	<1.0	54	31	<0.10
20/LEMON-NE-3.5	<2.0	4.5	89	<1.0	<1.0	55	16	39	5.8	<1.0	51	1.1	<1.0	<1.0	63	43	<0.10

TABLE 4

SUMMARY OF ANALYTICAL RESULTS - TITLE 22 METALS

MARYSVILLE HIGHWAY IMPROVEMENT PROJECT

YUBA COUNTY, CALIFORNIA

ANALYTE		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
SAMPLE ID		Results reported in milligrams per kilogram																
TTLC		500	500	10,000	75	100	2,500 / 500 [1]	8,000	2,500	1,000	3,500	2,000	100	500	700	2,400	5,000	20
10 x STLC		150	50	1,000	7.5	10	50 / 50 [1]	800	250	50	3,500	200	10	50	70	240	2,500	2.0
Published Background [2]		0.60	3.5	509	1.28	0.36	122	14.9	28.7	23.9	1.3	57	0.058	0.80	0.56	112	149	0.26
CHHSLs	Res	30	0.07	5,200	150	1.7	100,000/17	660	3,000	80	380	1,600	380	380	5.0	530	23,000	18
	Indust	380	0.24	63,000	1,700	7.5	100,000	3,200	38,000	320	4,800	16,000	4,800	4,800	63	6,700	100,000	180

Notes: 70/5-NE-3.5

- Sample depth in feet below ground surface
- Corner of intersection
- Cross streets (e.g. State Route 70 & 5th Street)

< = Less than laboratory reporting limits

TTLC = California Code of Regulations, Title 22 Total Threshold Limit Concentration

STLC = California Code of Regulations, Title 22 Soluble Threshold Limit Concentration in milligrams per liter

10 x STLC = Ten times the Soluble Threshold Limit Concentration

mg/kg = milligrans per kilogram

mg/l = milligrams per liter

[1] = Chromium III / Chromium VI

[2] = Background: Mean Concentration - Background Concentrations of Trace and Major Elements in California Soils, U.C. Calif., March 1996

CHHSLs = California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties

Analyte concentrations in parentheses ( ) were performed using the Waste Extraction Method for soluble metals; units reported are milligrams per liter.

Analyte concentrations in brackets [ ] were performed using the Total Characteristic Leaching Procedure soluable analysis; units reported are milligrams per liter.

TABLE 5
SUMMARY OF WATER ANALYTICAL RESULTS - PETROLEUM HYDROCARBONS
MARYSVILLE HIGHWAY IMPROVEMENT PROJECT
YUBA COUNTY, CALIFORNIA

SAMPLE ID	SAMPLE DATE	GRO (mg/l)	DRO (mg/l)	ORO (mg/l)
SR-70 & 4th Street				
70/4-SE-GW	3/13/2014	<0.05	<0.07	<0.07

Notes:
GRO = gasoline-range organics
DRO = diesel-range organics
ORO = motor oil-range organics
mg/l = Milligrams per liter
< = Less than laboratory reporting limits

APPENDIX A

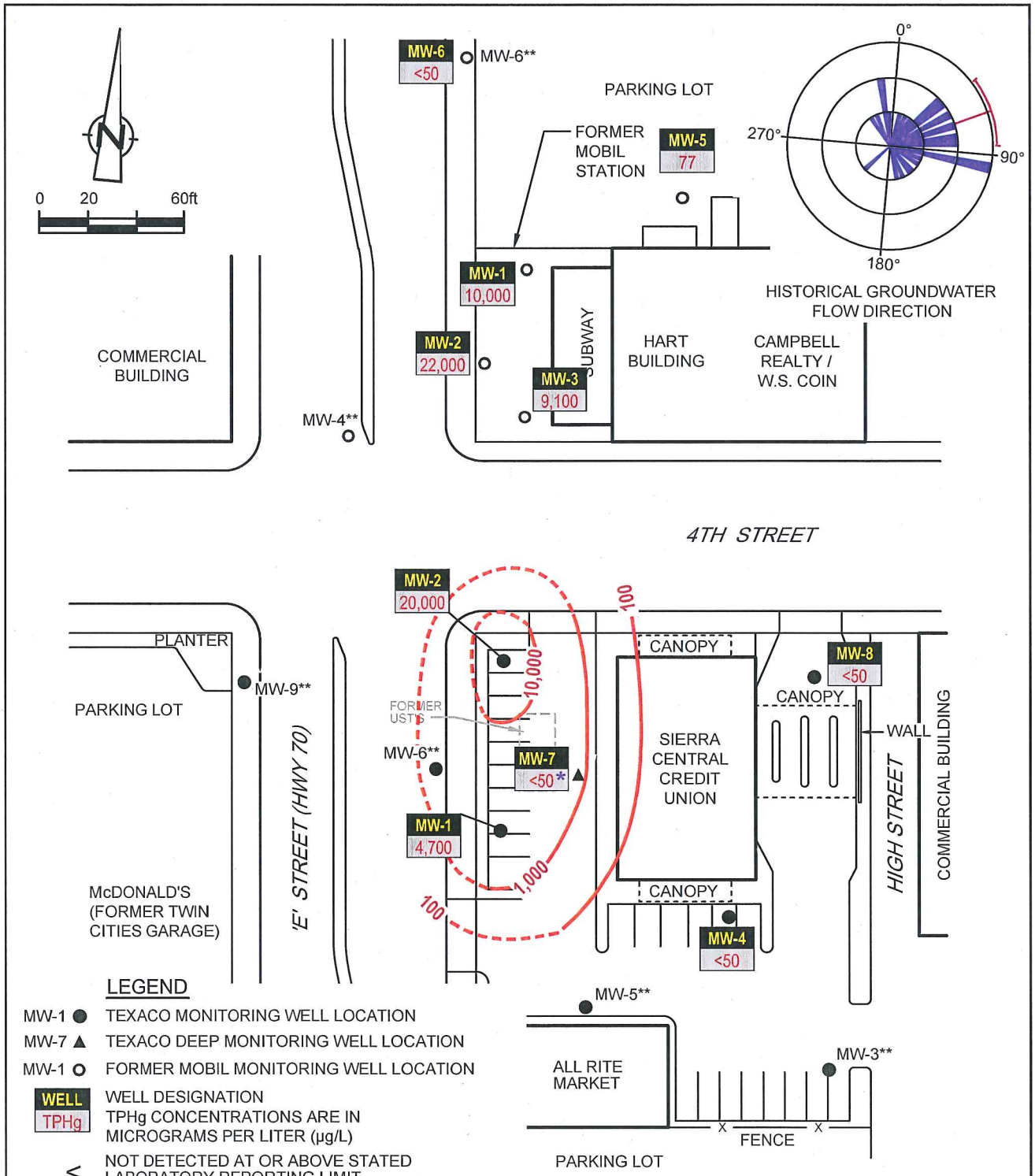
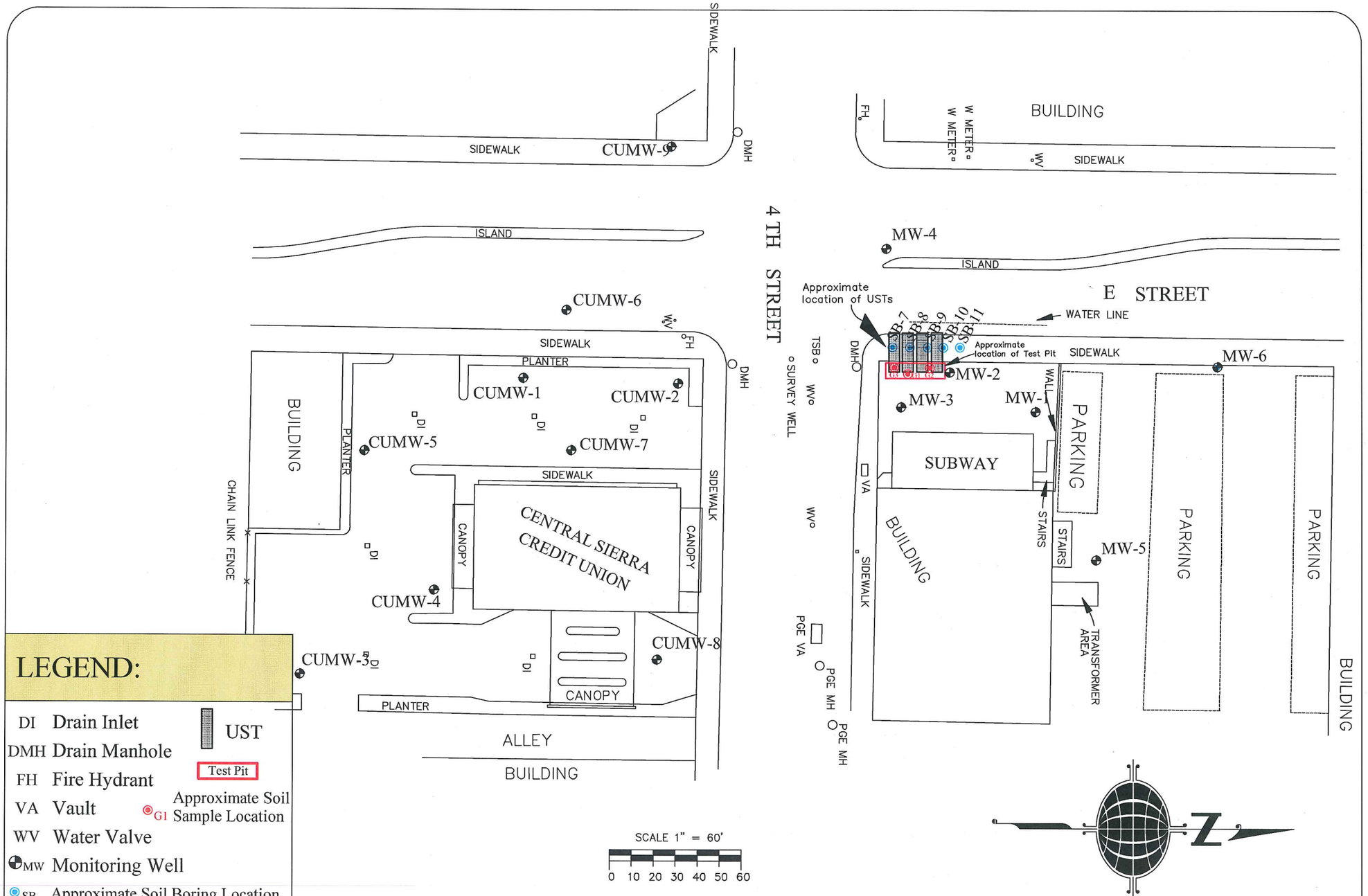


Figure 3

TPHg CONCENTRATIONS IN GROUNDWATER
FORMER TEXACO SERVICE STATION 211359
422 4TH STREET
Marysville, California
September 19, 2013

311895-95(019)GN-BR003 OCT 16/2013



LEGEND:

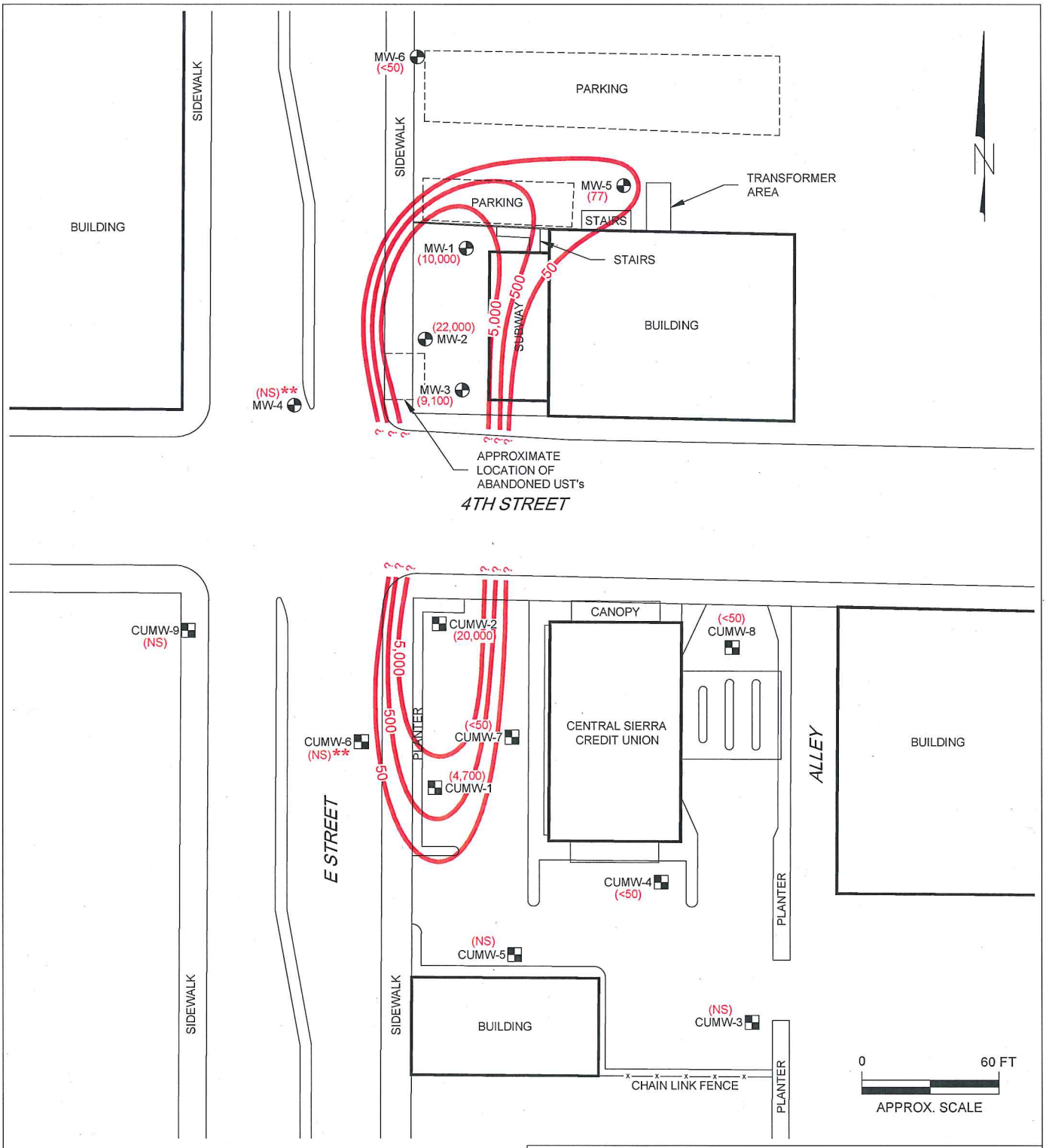
DI	Drain Inlet		UST
DMH	Drain Manhole		Test Pit
FH	Fire Hydrant		Approximate Soil Sample Location
VA	Vault	G1	
WV	Water Valve		
MW	Monitoring Well		
SB	Approximate Soil Boring Location		

EARTHTEC, Inc.
GEOTECHNICAL ENGINEERS • SPECIAL INSPECTORS
GEOLOGICAL AND ENVIRONMENTAL CONSULTANTS

SUBWAY RESTAURANT
FORMER MOBIL STATION
401 E STREET
MARYSVILLE, CALIFORNIA

SITE MAP

Project 394119	June 2012
Appendix A	Figure 1



LEGEND:

MW-6	FORMER MOBIL MONITORING WELL (SUBWAY)
CUMW-9	FORMER TEXACO MONITORING WELL (CENTRAL SIERRA CREDIT UNION)
(22,000)	TPHg CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
500	LINE OF EQUAL CONCENTRATION OF TPHg IN GROUNDWATER
NS	NOT SAMPLED

** DISCONTINUED FROM MONITORING AND SAMPLING PROGRAM

FIGURE 6
TPHg ISO-CONCENTRATION MAP
9/19/13
MARYSVILLE PLAZA SUBWAY
(FORMER MOBIL STATION)
401 E. STREET
MARYSVILLE, CALIFORNIA

PROJECT NO. -	DRAWN BY M.L. 10/22/13
FILE NO. -	PREPARED BY RDM
REVISION NO. 0	REVIEWED BY

RDM Environmental

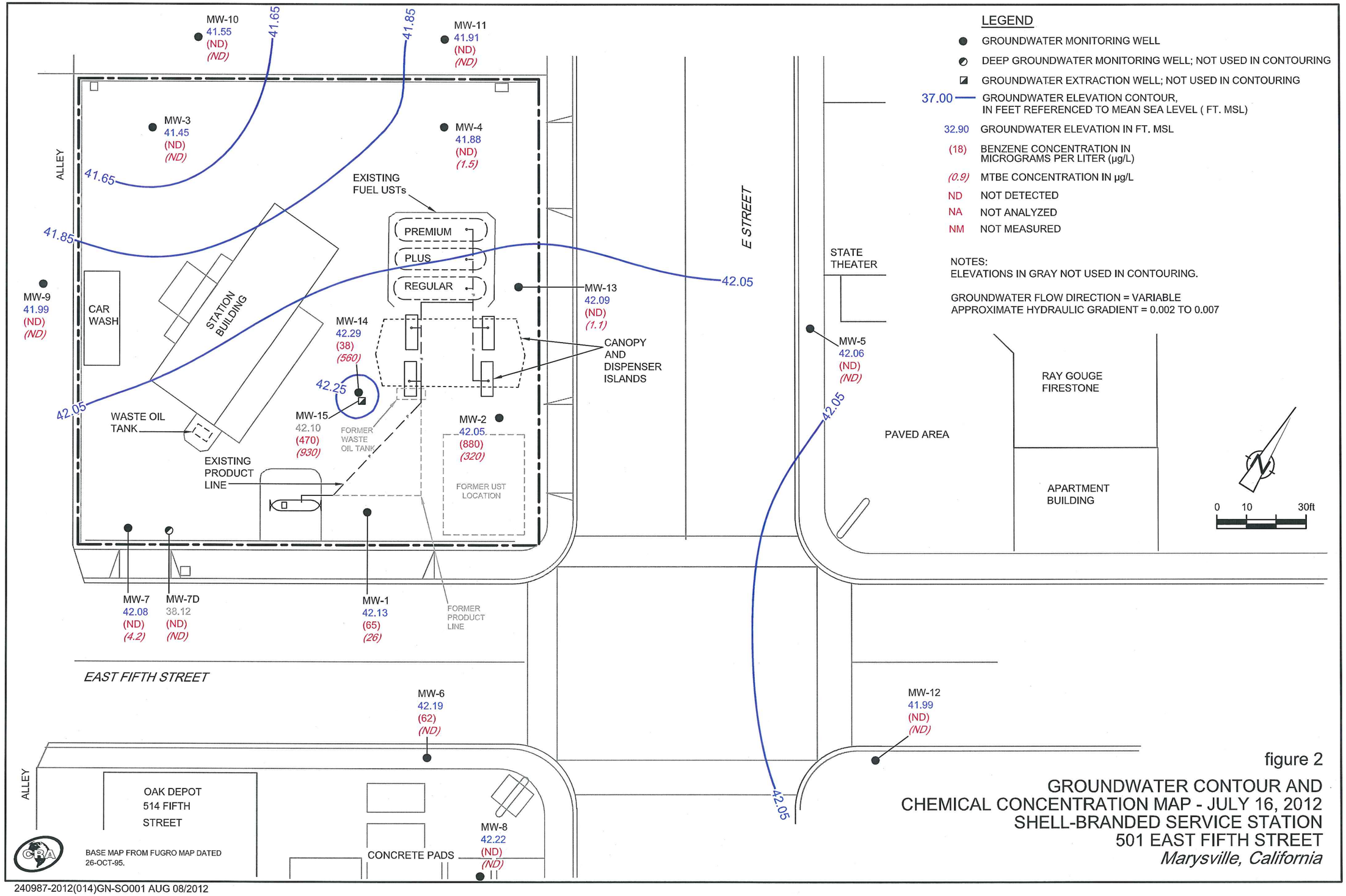
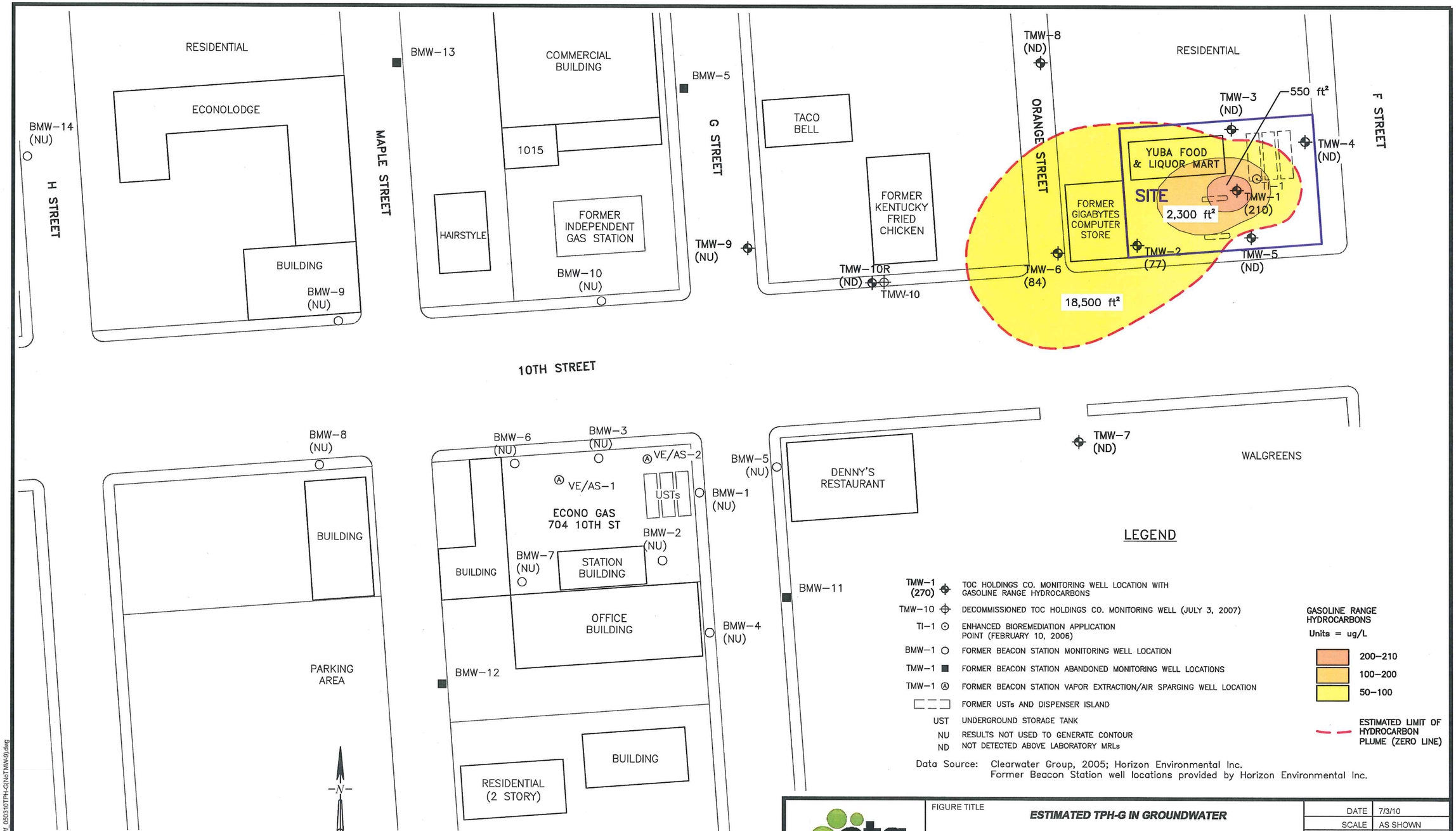


figure 2

GROUNDWATER CONTOUR AND
CHEMICAL CONCENTRATION MAP - JULY 16, 2012
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
Marysville, California

240987-2012(014)GN-SO001 AUG 08/2012



LEGEND

TMW-1 (270)	TOC HOLDINGS CO. MONITORING WELL LOCATION WITH GASOLINE RANGE HYDROCARBONS
TMW-10	DECOMMISSIONED TOC HOLDINGS CO. MONITORING WELL (JULY 3, 2007)
TI-1	ENHANCED BIOREMEDIATION APPLICATION POINT (FEBRUARY 10, 2006)
BMW-1	FORMER BEACON STATION MONITORING WELL LOCATION
TMW-1	FORMER BEACON STATION ABANDONED MONITORING WELL LOCATIONS
TMW-1 (A)	FORMER BEACON STATION VAPOR EXTRACTION/AIR SPARGING WELL LOCATION
	FORMER USTs AND DISPENSER ISLAND
UST	UNDERGROUND STORAGE TANK
NU	RESULTS NOT USED TO GENERATE CONTOUR
ND	NOT DETECTED ABOVE LABORATORY MRLs

GASOLINE RANGE HYDROCARBONS
Units = ug/L

- 200–210
- 100–200
- 50–100

ESTIMATED LIMIT OF HYDROCARBON PLUME (ZERO LINE)

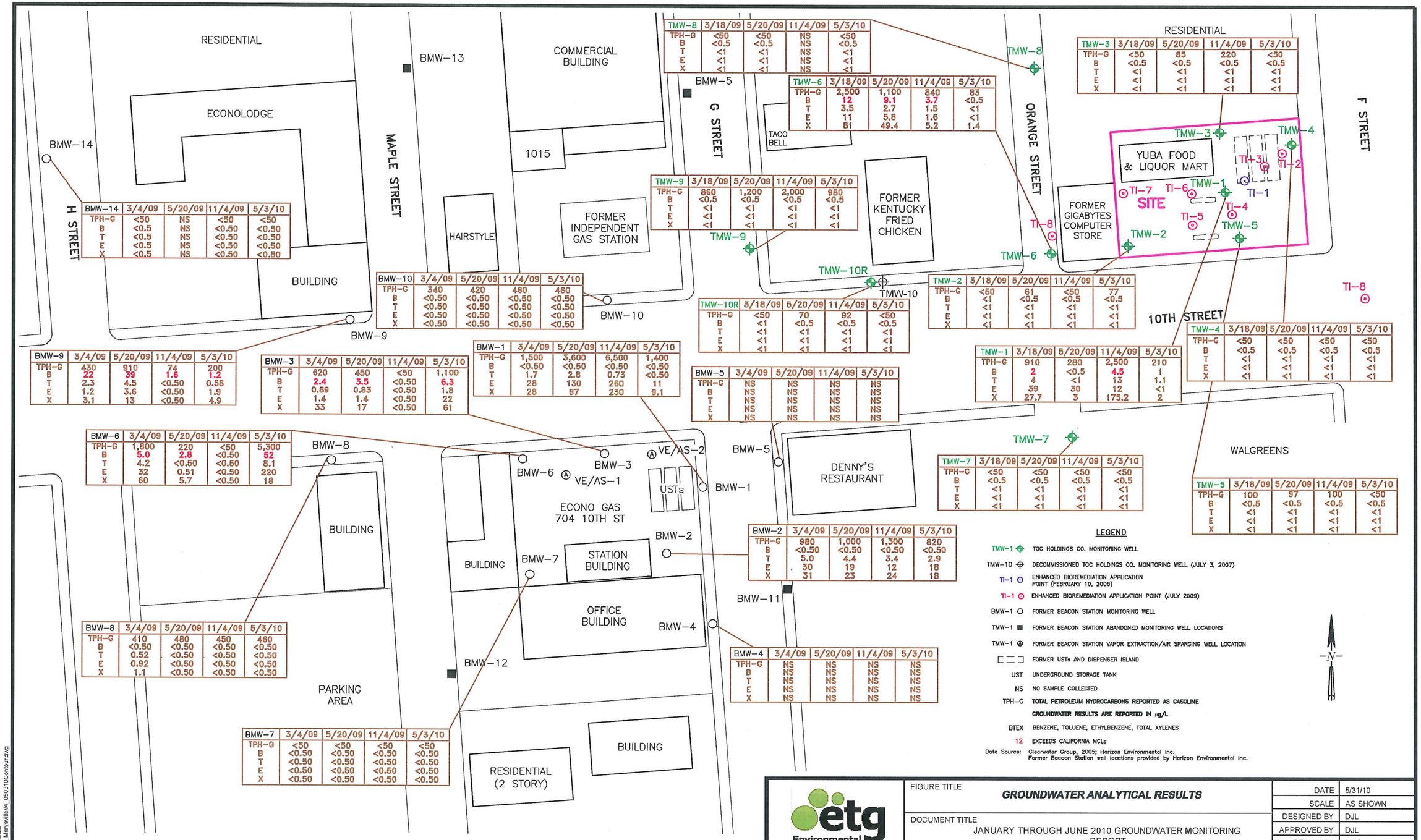
Data Source: Clearwater Group, 2005; Horizon Environmental Inc.
Former Beacon Station well locations provided by Horizon Environmental Inc.

etg Environmental Technologies Group
1720 Willow Creek Circle, Ste 519
Eugene, Oregon 97402
phone: 541-743-2600
fax: 541-743-2471
www.etgroupinc.com

FIGURE TITLE	ESTIMATED TPH-G IN GROUNDWATER
DOCUMENT TITLE	NO FURTHER ACTION REQUIRED REPORT
CLIENT	TOC HOLDINGS CO. 2737 WEST COMMODORE WAY, SEATTLE, WA
LOCATION	TOC HOLDINGS CO. PROPERTY NO. 04-064 605 10TH STREET, MARYSVILLE, CA

DATE	7/3/10
SCALE	AS SHOWN
DESIGNED BY	DJL
APPROVED BY	DJL
DRAWN BY	DMS
PROJECT NUMBER	1007-006.001
FIGURE NUMBER	7

Date: 6/2/10 Operator: DMS
ETG-Eugene 2010\TOC_Marysville\F_05\310TPH-G(NoTMW-9).dwg



BMW-14	3/4/09	5/20/09	11/4/09	5/3/10
TPH-G	<50	NS	<50	<50
B	<0.5	NS	<0.50	<0.50
T	<0.5	NS	<0.50	<0.50
E	<0.5	NS	<0.50	<0.50
X	<0.5	NS	<0.50	<0.50

BMW-10	3/4/09	5/20/09	11/4/09	5/3/10
TPH-G	340	420	460	460
B	<0.50	<0.50	<0.50	<0.50
T	<0.50	<0.50	<0.50	<0.50
E	<0.50	<0.50	<0.50	<0.50
X	<0.50	<0.50	<0.50	<0.50

BMW-9	3/4/09	5/20/09	11/4/09	5/3/10
TPH-G	430	910	74	200
B	22	39	1.6	1.2
T	2.3	4.5	<0.50	0.58
E	1.2	3.6	<0.50	1.9
X	3.1	13	<0.50	4.9

BMW-3	3/4/09	5/20/09	11/4/09	5/3/10
TPH-G	620	450	<50	1,100
B	2.4	3.5	<0.50	6.3
T	0.89	0.83	<0.50	1.8
E	1.4	1.4	<0.50	22
X	33	17	<0.50	61

BMW-1	3/4/09	5/20/09	11/4/09	5/3/10
TPH-G	1,500	3,600	6,500	1,400
B	<0.50	<0.50	<0.50	<0.50
T	1.7	2.8	0.73	<0.50
E	28	130	260	11
X	28	97	230	9.1

BMW-5	3/4/09	5/20/09	11/4/09	5/3/10
TPH-G	NS	NS	NS	NS
B	NS	NS	NS	NS
T	NS	NS	NS	NS
E	NS	NS	NS	NS
X	NS	NS	NS	NS

BMW-6	3/4/09	5/20/09	11/4/09	5/3/10
TPH-G	1,800	220	<50	5,300
B	5.0	2.8	<0.50	52
T	4.2	<0.50	<0.50	8.1
E	32	0.51	<0.50	220
X	60	5.7	<0.50	18

BMW-8	3/4/09	5/20/09	11/4/09	5/3/10
TPH-G	410	480	450	460
B	<0.50	<0.50	<0.50	<0.50
T	0.52	<0.50	<0.50	<0.50
E	0.92	<0.50	<0.50	<0.50
X	1.1	<0.50	<0.50	<0.50

BMW-7	3/4/09	5/20/09	11/4/09	5/3/10
TPH-G	<50	<50	<50	<50
B	<0.50	<0.50	<0.50	<0.50
T	<0.50	<0.50	<0.50	<0.50
E	<0.50	<0.50	<0.50	<0.50
X	<0.50	<0.50	<0.50	<0.50

BMW-2	3/4/09	5/20/09	11/4/09	5/3/10
TPH-G	980	1,000	1,300	820
B	<0.50	<0.50	<0.50	<0.50
T	5.0	4.4	3.4	2.9
E	30	19	12	18
X	31	23	24	18

BMW-4	3/4/09	5/20/09	11/4/09	5/3/10
TPH-G	NS	NS	NS	NS
B	NS	NS	NS	NS
T	NS	NS	NS	NS
E	NS	NS	NS	NS
X	NS	NS	NS	NS

TMW-8	3/18/09	5/20/09	11/4/09	5/3/10
TPH-G	<50	<50	NS	<50
B	<0.5	<0.5	NS	<0.5
T	<1	<1	NS	<1
E	<1	<1	NS	<1
X	<1	<1	NS	<1

TMW-6	3/18/09	5/20/09	11/4/09	5/3/10
TPH-G	2,500	1,100	840	83
B	12	9.1	3.7	<0.5
T	3.5	2.7	1.5	<1
E	11	5.8	1.6	<1
X	81	49.4	5.2	1.4

TMW-9	3/18/09	5/20/09	11/4/09	5/3/10
TPH-G	860	1,200	2,000	980
B	<0.5	<0.5	<0.5	<0.5
T	<1	<1	<1	<1
E	<1	<1	<1	<1
X	<1	<1	<1	<1

TMW-10R	3/18/09	5/20/09	11/4/09	5/3/10
TPH-G	<50	70	92	<50
B	<1	<0.5	<0.5	<0.5
T	<1	<1	<1	<1
E	<1	<1	<1	<1
X	<1	<1	<1	<1

TMW-2	3/18/09	5/20/09	11/4/09	5/3/10
TPH-G	<50	61	<50	77
B	<1	<0.5	<0.5	<0.5
T	<1	<1	<1	<1
E	<1	<1	<1	<1
X	<1	<1	<1	<1

TMW-3	3/18/09	5/20/09	11/4/09	5/3/10
TPH-G	<50	85	220	<50
B	<0.5	<0.5	<0.5	<0.5
T	<1	<1	<1	<1
E	<1	<1	<1	<1
X	<1	<1	<1	<1

TMW-1	3/18/09	5/20/09	11/4/09	5/3/10
TPH-G	910	280	2,500	210
B	2	<0.5	4.5	1
T	4	<1	13	1.1
E	39	30	12	<1
X	27.7	3	175.2	2

TMW-4	3/18/09	5/20/09	11/4/09	5/3/10
TPH-G	<50	<50	<50	<50
B	<0.5	<0.5	<0.5	<0.5
T	<1	<1	<1	<1
E	<1	<1	<1	<1
X	<1	<1	<1	<1

TMW-7	3/18/09	5/20/09	11/4/09	5/3/10
TPH-G	<50	<50	<50	<50
B	<0.5	<0.5	<0.5	<0.5
T	<1	<1	<1	<1
E	<1	<1	<1	<1
X	<1	<1	<1	<1

TMW-5	3/18/09	5/20/09	11/4/09	5/3/10
TPH-G	100	97	100	<50
B	<0.5	<0.5	<0.5	<0.5
T	<1	<1	<1	<1
E	<1	<1	<1	<1
X	<1	<1	<1	<1

LEGEND

- TMW-1 — TOC HOLDINGS CO. MONITORING WELL
- TMW-10 — DECOMMISSIONED TOC HOLDINGS CO. MONITORING WELL (JULY 3, 2007)
- TI-1 — ENHANCED BIOREMEDIATION APPLICATION POINT (FEBRUARY 10, 2006)
- TI-1 — ENHANCED BIOREMEDIATION APPLICATION POINT (JULY 2009)
- BMW-1 — FORMER BEACON STATION MONITORING WELL
- TMW-1 — FORMER BEACON STATION ABANDONED MONITORING WELL LOCATIONS
- TMW-1 — FORMER BEACON STATION VAPOR EXTRACTION/AIR SPARGING WELL LOCATION
- FORMER USTs AND DISPENSER ISLAND
- UST — UNDERGROUND STORAGE TANK
- NS — NO SAMPLE COLLECTED
- TPH-G — TOTAL PETROLEUM HYDROCARBONS REPORTED AS GASOLINE
  GROUNDWATER RESULTS ARE REPORTED IN µg/L
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENES
- 12 — EXCEEDS CALIFORNIA MCLs

Data Source: Clearwater Group, 2005; Horizon Environmental Inc.
Former Beacon Station well locations provided by Horizon Environmental Inc.

etg Environmental Technologies Group
1720 Willow Creek Circle, Ste 519
Eugene, Oregon 97402
phone: 541-743-2600
fax: 541-743-2471
www.etgroupinc.com

FIGURE TITLE: **GROUNDWATER ANALYTICAL RESULTS**

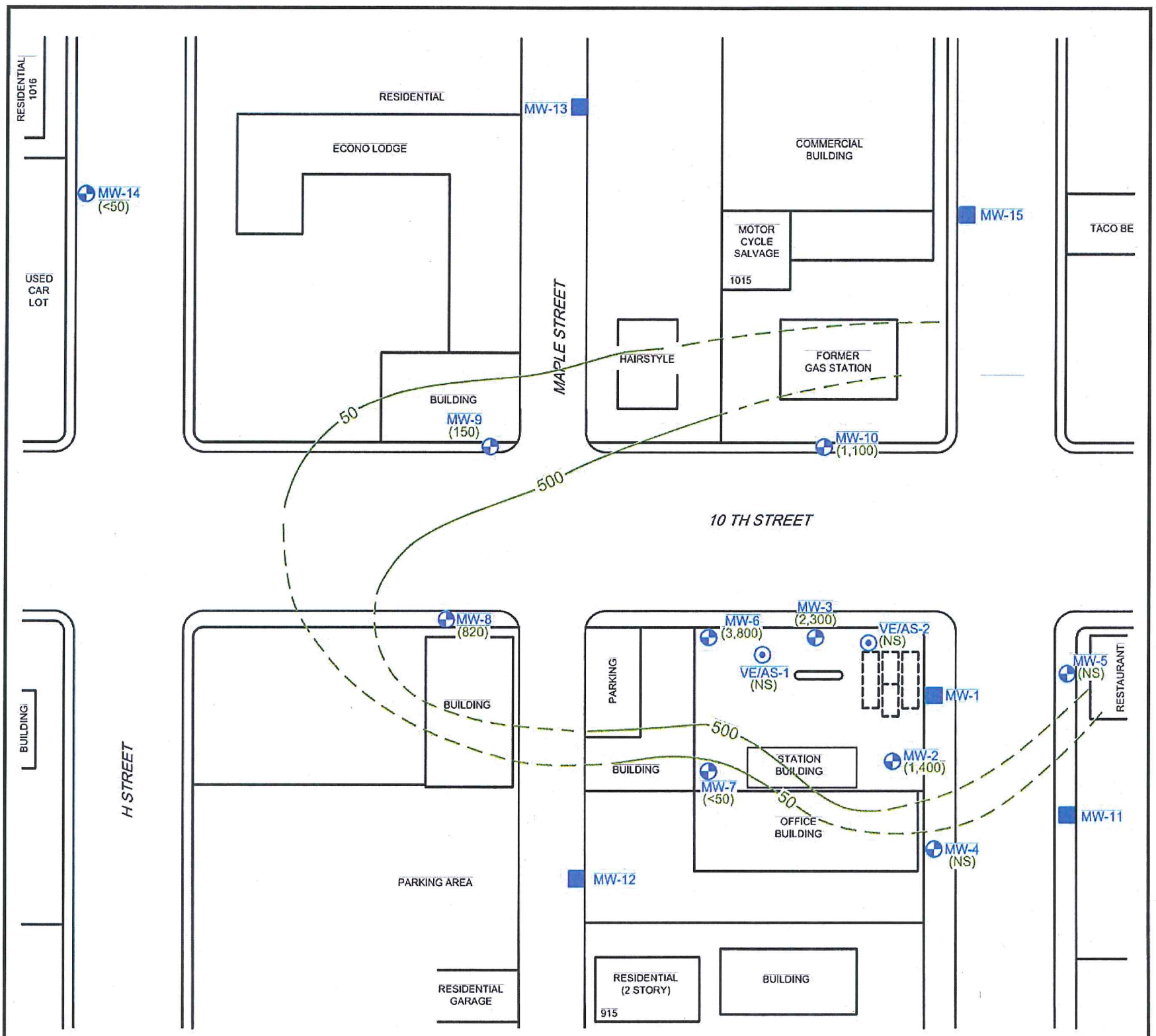
DOCUMENT TITLE: JANUARY THROUGH JUNE 2010 GROUNDWATER MONITORING REPORT

CLIENT: TOC HOLDINGS CO.
2737 WEST COMMODORE WAY, SEATTLE, WA

LOCATION: TOC HOLDINGS CO. PROPERTY NO. 04-064
605 10TH STREET, MARYSVILLE, CA

DATE	5/31/10
SCALE	AS SHOWN
DESIGNED BY	DJL
APPROVED BY	DJL
DRAWN BY	DMS
PROJECT NUMBER	1007-006.001
FIGURE NUMBER	4

Date: 5/31/10 Operator: DMS
ETG-Eugene 2010\TOC_Marysville\4_050310Contour.dwg



LEGEND:

MW-15	ABANDONED MONITORING WELL LOCATION
MW-1	MONITORING WELL LOCATION (ULTRAMAR)
VE/AS-1	VAPOR EXTRACTION/ AIR SPARGING WELL LOCATION
TMW-10	MONITORING WELL LOCATION (TIME OIL STATION)
TI-1	INJECTION WELL LOCATION (TIME OIL STATION)
(3,800)	TPHg CONCENTRATION IN PARTS PER BILLION (ppb)
— 5.0 —	TPHg ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)
NS	NOT SAMPLED

FORMER BEACON WELLS SAMPLED: 6/18/13 & 6/19/13

NORTH

S

0 80 FT

APPROX. SCALE

HORIZON ENVIRONMENTAL INC.

Project Number: 1399.416	Drawn By: C. Bechtell
Prepared By: K. Liptak	Date: 1/11/13
Reviewed By: R. Smith	Revised Date: 7/25/13

TPHg ISOCONCENTRATION MAP

FORMER BEACON STATION NO. 12399
704 10TH STREET
MARYSVILLE, CA.

SHEET

4

APPENDIX B

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 20/9-NW

DATE DRILLED 3/14/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
				SOD/TOPSOIL		
1				**FILL**	CL	
2				Soft, moist, moderate brown, coarse Sandy fine Gravelly Silty CLAY with abundant roots		
3				**ALLUVIUM** Soft, moist, moderate brown, Silty CLAY	CL	1.7
4		20/9-NW-3.5 1116		- very soft, grayish brown and trace fine sands at 4'		
5						0.9
6						
7				- fine sands increase at 7'		1.4
8		20/9-NW-7.5 1119				
9						
10						
11						2.1
12		20/ 9-NW-11.5 1122		BORING TERMINATED AT 12 FEET		

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 20/F-NE

DATE DRILLED 3/12/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**2 INCHES ASPHALT**	GW	
				FILL	CL	1.6
2				Loose, moist, moderate yellowish brown, medium to coarse Sandy GRAVEL, no odor		
3				**ALLUVIUM** Medium stiff, moist, moderate brown, silty CLAY, no odor		0.2
4		20/F-NE-3.5 0903		Loose, moist, dark yellowish orange, Silty fine SAND, no odor	SM	
5						
6				Very stiff, dry, dark yellowish orange, Silty CLAY, no odor	CL	2.6
7				- hard at 7'		
8		20/F-NE-7.5 0927				
9						
10		20/F-NE-9.5 0935		REFUSAL - BORING TERMINATED AT 10 FEET		2.1

Figure B5, Log of Boring 20/F-NE, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 20/F-NW

DATE DRILLED 3/12/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
				2 INCHES ASPHALT	GW	
1				**ROAD BASE** Loose, moist, dusky brown, Sandy GRAVEL	CL	
2				**FILL** Soft, moist, moderate brown, Silty CLAY, with some rounded gravel, no odor	CL	2.1
3						
4		20/F-NW-3.5 1019		**ALLUVIUM** Soft, moist, moderate brown, Silty CLAY, no odor - dry and hard at 4'		
5						9.1
6						
7		20/F-NW-6.5 1029		- trace fine sand and roots at 6' Hard, dry, light brown, Silty CLAY with trace fine sand, no odor	CL	12.4
8						2.6
9		20/F-NW-8.0 1042		REFUSAL - BORING TERMINATED AT 9 FEET		

Figure B8, Log of Boring 20/F-NW, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 20/F-SE

DATE DRILLED 3/13/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
				9 INCHES SOD/TOPSOIL		
1				**ALLUVIUM**	CL	3.1
2		20/F-SE-1.5 1158		Medium stiff, moist, moderate brown, Silty CLAY, no odor, some reduced iron (black) mottling		
3				- no recovery from 2 to 4'		
4				Medium stiff, moist, moderate brown, Silty CLAY, no odor	CL	
5						1.5
6				- very stiff to hard at 6'		
7		20/F-SE-6.5 1200		- very hard, dry, moderate yellowish brown at 7'		2.8
8						
9		20/F-SE-8.5 1206		REFUSAL - BORING TERMINATED AT 9 FEET		3.3

Figure B6, Log of Boring 20/F-SE, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 20/F-SW

DATE DRILLED 3/13/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**FILL** Soft, moist, moderate brown, fine Sandy Silty CLAY with rounded gravel, no odor	CL	
2						
3				**ALLUVIUM**	CL	
4		20/F-SW-3.5 1106		Stiff, moist, moderate yellowish brown, Silty CLAY, no odor		4.6
5						
6				- fine sands from 5.25 to 6'		
7						
8		20/F-SW-7.5 1111		Loose, moist, moderate yellowish brown, Silty Clayey fine SAND, no odor	SC	1.5
9						
10				Medium stiff, moist, light brown, Silty CLAY, no odor	CL	3.9
11						
12		20/F-SW-11.5 1124				2.5
				BORING TERMINATED AT 12 FEET		

Figure B7, Log of Boring 20/F-SW, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:	ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 20/G-NE

DATE DRILLED 3/12/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**SOD-TOPSOIL** Soft, moist, dusky brown, Silty fine SAND with abundant roots, no odor	SM	
2				**4 INCHES CONCRETE**		
3				**ALLUVIUM** Soft, moist, moderate yellowish brown, Silty CLAY with some roots, no odor	CL	1.4
4		20/G-NE-3.5 1108				
5				- hard at 5'		
6				- very hard drilling at 6'		1.0
7		20/G-NE-6.5 1119		- dry at 7'		
8						1.6
9		20/G-NE-8.5 1125		REFUSAL - BORING TERMINATED AT 9 FEET		

Figure B9, Log of Boring 20/G-NE, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 20/G-NW

DATE DRILLED 3/12/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
				2 INCHES ASPHALT	GW	
1				**ROAD BASE** Loose, dry, Sandy GRAVEL	CL	
2				**FILL**	CL	
3				Soft, moist, moderate brown, Sandy Silty CLAY, with rounded gravel		3.2
4		20/G-NW-3.5 1157		**ALLUVIUM** Medium stiff, moist, moderate brown, Silty CLAY, no odor		1.9
5				- hard at 3' - trace rootlets at 3.5'		
6				- dry at 5.5' - hard drilling at 6'		3.2
7		20/G-NW-6.5 1206		- medium stiff at 7'		
8						1.8
9		20/G-NW-8.5 1221		REFUSAL - BORING TERMINATED AT 9 FEET		

Figure B10, Log of Boring 20/G-NW, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 20/G-SW

DATE DRILLED 3/13/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
				2 INCHES CONCRETE	CL	
1		20/G-SW-1.0		**FILL**	CL	2.1
2		1033		Soft, moist, moderate brown, fine Sandy Silty CLAY with rounded gravel, no odor		
3				**ALLUVIUM** Soft, moist, moderate brown, Silty CLAY, no odor		
4				- no recovery between 1.5 and 4		
5				Medium stiff, dry, light brown, Silty CLAY with trace medium sand, and reduced iron black mottling, no odor	CL	2.2
6						
7						
8		20/G-SW-7.5				3.4
9		1037				
10						
11						
12		20/G-SW-11.5				4.8
		1012		BORING TERMINATED AT 12 FEET		

Figure B11, Log of Boring 20/G-SW, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:	ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 20/H-NE

DATE DRILLED 3/12/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**2 TO 3 INCHES ASPHALT**	GW	
				ROAD BASE Loose, Sandy GRAVEL, no odor	SW	
2				**FILL** Loose, moist, moderate yellowish brown, fine SAND, no odor	CL	
3				**ALLUVIUM** Medium stiff to stiff, moist, moderate brown, Silty CLAY, no odor		0.8
4		20/H-NE-3.5 1249				
5				- becomes soft from 5.3' to 5.5'		1.1
6		20/H-NE-5.5 1300		- hard, dry and dark yellowish orange at 5.5'		
7						
8						1.9
9		20/H-NE-8.5 1308		REFUSAL - BORING TERMINATED AT 9 FEET		

Figure B12, Log of Boring 20/H-NE, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 20/H-NW

DATE DRILLED 3/12/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**TOP SOIL** Loose, moist, dusky brown, Gravelly Silty, medium to coarse SAND, no odor	SM	
2				**ALLUVIUM** Soft, moist, moderate brown, Silty CLAY, with roots, no odor	CL	5.4
3				- medium stiff at 3'		1.3
4		20/H-NW-3.5 1331		- stiff at 4'		
5				- hard, dry, dark yellowish orange at 5'		
6						
7						
8		20/H-NW-7.0 1343		REFUSAL - BORING TERMINATED AT 8 FEET		3.0

Figure B15, Log of Boring 20/H-NW, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 20/H-SE

DATE DRILLED 3/13/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
				3 INCHES CONCRETE	ML	
1				**FILL** Soft, moist, medium brown, fine Sandy SILT with gravel	CL	
2				**ALLUVIUM** Medium stiff, moist, moderate brown, Silty CLAY with rootlets, no odor		2.9
3				- hard at 3.25'		
4		20/H-SE-3.5 0921		- pale yellowish brown at 3.5'		3.0
5				- dry, dark yellowish orange at 4'		
6		20/H-SE-5.5 0929		- moist with reduced iron (black) mottling and greenish gray lenses at 5', no odor		4.3
7				- dark greenish gray at 5.5', no odor		
8		20/H-SE-7.5 0934		- brittle, hard pan, greenish gray and moderate yellowish orange		4.8
9				Hard, dry, moderate yellowish brown, Silty CLAY with trace medium to coarse sands	CL	
10		20/H-SE-9.5 0949		- grades to olive gray		1.7
11						
12		20/H-SE-11.5 0954		- very faint hydrocarbon odor		4.6
				BORING TERMINATED AT 12 FEET		

Figure B13, Log of Boring 20/H-SE, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 20/H-SW

DATE DRILLED 3/13/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**FILL** Soft, moist, moderate brown, fine Sandy Silty CLAY with some gravel, brick and glass fragments, no odor	CL	
2				- sands lessen at 1'		0.3
3						
4		20/H-SW-3.5 0823		**ALLUVIUM** Medium stiff, moist, moderate brown, Silty CLAY, no odor	CL	
5				- hard at 5'		0.2
6				- rootlets at 6'		
7		20/H-SW-6.5 0847		Hard, dry, dark yellowish orange at 7'		
8		20/H-SW-7.5 0856		REFUSAL - BORING TERMINATED AT 8 FEET		2.1

Figure B14, Log of Boring 20/H-SW, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 20/Jay-NE

DATE DRILLED 3/14/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
				SOD/TOP SOIL<b>>		
1				**ALLUVIUM** Soft, moist, grayish brown, Silty CLAY with trace fine sand and roots, no odor	CL	
2				- large tree roots from 2 to 4'		2.7
3						
4		20/ Jay-NW-3.5 1044		- very soft at 4'		3.8
5						
6						
7						
8		20/ Jay-NW-7.5 1046				3.2
9				- medium stiff, fine sands increase from 9 to 9.5'		
10						
11						2.6
12		20/ Jay-NW-11.5 1050		BORING TERMINATED AT 12 FEET		

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 20/Lemon-NE

DATE DRILLED 3/12/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**FILL** Soft, moist, dusky yellowish brown, fine Sandy SILT, with organic wood debris and glass fragments	ML CL	2.2
2				**ALLUVIUM** Soft, moist, moderate brown, Silty CLAY with roots, no odor		
3				- medium stiff at 3'		2.4
4		20 / Lemon-NE-3.5' 1407				
5						0.9
6						
7				Soft, moist, moderate yellowish brown, fine Sandy CLAY	CL	0.9
8		20 / Lemon-NE-7.5 1414		- sands coarsen to medium sand at 8'		
9						
10				- some pale yellowish white clay lenses approximately 10 mm in diameter at 9 to 9.25'		
11				- large mica flakes starting at 11'		3.1
12		20 / Lemon-11.5' 1423		BORING TERMINATED AT 12 FEET		

Figure B16, Log of Boring 20/Lemon-NE, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 70/4-SE

DATE DRILLED 3/13/2014 WATER LEVEL (ATD) 6 feet

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**FILL** Soft, moist, grayish brown, medium to fine Sandy Silty CLAY, with roots, and brick fragments	CL	3.2
2				- no roots at 1'		
3				- trace coarse sands at 2'		
4		70/4-SE-3.5 1515		- medium stiff, large brick fragments at 3'		5.4
5				- soft at 4.5'		
6				▽ - groundwater at 6 feet after 10 minutes		
7				▼ - very soft, wet at 7'		
8		70/4-SE-7.5 1520		- old weathered concrete at bottom of shoe at 8'		4.0
				REFUSAL - BORING TERMINATED AT 8 FEET		

Figure B2, Log of Boring 70/4-SE, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:	ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 70/4-SW

DATE DRILLED 3/13/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
				2 INCHES CONCRETE	SW	
1				**FILL** Loose, moist, medium SAND	SM	1.4
2				Loose, moist, moderate brown, Silty fine SAND, no odor		
3				**ALLUVIUM** Stiff, moist, moderate brown, Silty CLAY, no odor	CL	
4						0.6
5				- reduced iron (black) mottling at 5'		
6				- very stiff at 6'		
7						4.4
8		70/4-SW-7.5 1425				
9				Medium stiff, moist, moderate brown, fine Sandy Silty CLAY, no odor	CL	
10				- fine sands increase at 10'		
11				Loose, moist, moderate brown, fine to medium SAND, no odor	SP	9.3
12		70/4-SW-11.5 1427		BORING TERMINATED AT 12 FEET		

Figure B1, Log of Boring 70/4-SW, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 70/5-NE

DATE DRILLED 3/14/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
				2 INCHES CONCRETE	SP	
1				**FILL**	CL	
2				Loose, moist, moderate yellowish brown, Gravelly medium SAND		3.4
3				Medium stiff, moist, grayish brown, Silty CLAY with fine sand and brick fragments, no odor		
				- large 2-inch long brick fragments at 2'	CL	
4		70/5-NE-3.5 1317		**ALLUVIUM**		
5				Medium stiff, moist, grayish brown, Silty CLAY, no odor	SM	4.8
				Medium dense, moist, dusky yellowish brown, Silty fine SAND, no odor		
6		70/5-NE-6.0 1324		- grayish brown from 5.25 to 6.5'		
7				Stiff, moist, dusky yellowish brown, Silty CLAY with trace fine sands	CL	
8		70/5-NE-7.5 1320		- no fine sand at 7'		1.5
9						
10						
11						3.6
12		70/5-NE-11.5 1330		BORING TERMINATED AT 12 FEET		

Figure B4, Log of Boring 70/5-NE, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. 70/5-NW

DATE DRILLED 3/13/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
				2 INCHES CONCRETE	SW	
1				**FILL**	CL	
				Loose, moist, medium SAND		
2				**ALLUVIUM**		
3				Soft to medium stiff, moist, moderate yellowish brown, Silty CLAY, no odor		
4		70/5-NW-3.5 1240		- dark yellowish brown at 3.75'		5.3
				- olive gray, faint organic odor at 4'		
5				- hard at 5'		
6		70/5-NW-5.5 1248		- very hard, dry at 6'		2.3
7						
8		70/5-NW-7.5 1255				0.8
9				- medium stiff, moist, and dusky yellowish brown at 8.5', no odor		
10						6.9
11		70/5-NW-10.5 1303		- grades to olive gray with very faint hydrocarbon odor at 11'		
12		70/5-NW-16.5 1308		BORING TERMINATED AT 12 FEET		2.9

Figure B3, Log of Boring 70/5-NW, page 1 of 1

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:	ENGINEER/GEOLOGIST: **Joshua Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-23 Marysville Highway Improvement Project**

BORING NO. Market/11-SE

DATE DRILLED 3/14/2014 WATER LEVEL (ATD) Not encountered

EQUIPMENT Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**3 to 4 INCHES CONCRETE**	GW	0
				FILL - ROAD BASE Loose, moist, Sandy GRAVEL		
2				**ALLUVIUM**	CL	1.3
3				Soft, moist, grayish brown, Silty CLAY with fine sands, no odor - fine sands lessen at 2.5'		
4						0.2
5		Market /11-SE-5 0955		- moisture lessens at 4.5'		
6				- medium stiff at 5.5'		
7				- trace fine sands at 7'		
8						0.9
9		Market /11-SE-8.5 0956				
10				- soft, moderate yellowish brown, moisture increases at 9.5'		
11						0.3
12		Market/ 11-SE-11.5 1002		BORING TERMINATED AT 12 FEET		

ENV_NO_WELL YUBA-COLUSA BORINGS.GPJ 05/22/14

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Joshua Ewert**

APPENDIX C

ADVANCED GEOLOGICAL SERVICES

1605 School Street, #4
Moraga CA 94556
925 (808-8965)

April 7, 2014

Mr. John Juhrend, PE, CEG, CEM
Principal / Senior Engineer
GEOCON Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, California 95744

Subject: **Geophysical Investigation Results**
Underground Storage Tank (UST) Delineation
420 E Street and SW Corner of 5th St. and E St.
Marysville, California

Mr. Juhrend-

1.0 INTRODUCTION

This letter presents the findings of Advanced Geological Services, Inc. (AGS) geophysical investigation to delineate the extent of underground storage tanks (UTSs) that were encountered at two locations along SR-70 (E Street) in Marysville, California (Figure 1). One location is on the southwest corner of 5th and E Street and the other location is at 420 E Street, about 120 feet south of the first location. For convenience in this report, the locations are designated as the North Site, and South site, respectively.

Figure 1 – Site Locations in Marysville, California

The field work was performed on March 18, 2014 by AGS geophysicist Roark Smith, who used a Geonics EM61 electromagnetic (EM) metal-detector with digital recording capabilities, a Fisher M-Scope metal detector (MD), and a GSSI SIR-3000 ground penetrating radar (GPR) system. Briefly, the EM61 and M-Scope instruments were used to look for buried metal areas indicative of a UST, and GPR was used to obtain graphical profiles of the subsurface to better identify buried metal objects detected by the EM61 survey. In general, EM61 surveying is an important part of a UST investigation because it provides a deeper investigation depth than GPR, which can be as shallow as two feet at some sites. Depending on their size, the EM61can detect objects as deep as 10 feet; however, the EM61 can detect only metallic objects and is subject to interference from vehicles, buildings, and other above-ground metallic objects.

2.0 RESULTS SUMMARY

North Site- A UST was encountered at a depth of about four feet during Geocon's direct-push (DP) sampling activities at the North site. AGS identified a 4.5- by 7.0-foot area of elevated, metal-indicating EM61 response centered on the DP sample location. The elevated response may be associated with a UST; however, because the EM61 data were extremely noisy due to interference from numerous underground utilities and surface metal objects, the EM61 survey did not provide a definitive result regarding the extent of the UST. GPR achieved a signal penetration depth of about three feet; accordingly, the UST was not detected with GPR because it is too deeply buried to be imaged. North Site results are presented on Figure 5.

South Site- The presence of UST(s) at the South Site is indicated by two shallow pipe-wells imbedded in the sidewalk along E Street. Removing the metal plates ("lids") covering each well revealed capped vertical pipes protruding from the ground, and one of the wells contained a placard reading "Associated Flying A Gasoline." EM61 data show a single 5- by 9-foot area of elevated response associated with the two pipe-wells; accordingly, the EM61 data suggest that only one UST is present at this location. It's possible that the two pipe-wells house UST vent and fill pipes, respectively. GPR achieved a signal penetration depth of about three feet; accordingly, the UST was not detected with GPR because it is too deeply buried to be imaged. South Site results are presented on Figure 6.

3.0 SITE DESCRIPTIONS

The investigation was performed at two sites along the west side of SR-70 (E Street) between 4th and 5th Streets. For convenience, they are referred to as the "North Site" and the "South Site." The North Site is on the southwest corner of 5th and E Street, where AGS understands that an underground storage tank UST was encountered during Geocon's recent direct-push (DP) sampling activities. AGS investigated an approximately 20- by 30-foot area centered on Geocon's direct-push sample location. The area was crowded with numerous geophysical noise sources that included metal bollards and traffic signal poles, a metal storm drain grate, and three small pull-boxes for electrical cables and traffic signal control wiring (Figure 5).

Figure 2 – UST fill/vent pipe wells at 420 E Street

The South Site is at 420 E Street, approximately 120 feet south of the North Site (Figure 6). The presence of UST(s) at this location is indicated by two shallow pipe-wells imbedded in the sidewalk (Figure 2, right). Removing the metal plates ("lids") covering each well revealed a capped vertical pipe protruding from the ground, and one of the wells contained a placard reading "Associated Flying A Gasoline" (Figure 3, right).


Figure 3 – Placard found in UST fill port at 420 E Street (South Site).

4.0 GEOPHYSICAL METHODS AND EQUIPMENT

The geophysical investigation was performed using the following

geophysical methods:

- Time-domain Electromagnetics (EM), using a Geonics EM61
- Electromagnetic metal detection (MD), using a Fisher TW-6 M-Scope
- Ground Penetrating Radar (GPR), GSSI SIR-3000 system connected to a 400-MHz antenna

Time-Domain Electromagnetics (EM) using a Geonics EM61
The EM61 is a high-sensitivity, high-resolution recording metal detector commonly used to search for buried metal objects, particularly at developed sites cluttered with surface obstructions such as buildings, parked cars, chain-link fences, and buried utilities. Typical targets for EM61 surveys include underground storage tanks (USTs), buried drums, reinforced concrete foundation remnants, buried refuse (which nearly always includes metallic debris), and individual metallic debris items. The EM61 operates by transmitting a pulsed magnetic field, which causes (induces) small electrical currents (eddy currents) to flow through metallic objects near (below) the instrument. The strength of these eddy currents is measured by the EM61 receiver coil at a relatively long time after the magnetic field pulse subsides. This delayed measurement technique produces a reading (in millivolts) that responds strongly to metal but very weakly to the electrical properties of the surrounding soil, thus making the EM61 a high-sensitivity metal detector. The EM61 employs a one-meter-wide square coil, and its sensitivity can be enhanced by the deployment of a second receiver coil above the first; the second coil response can be used to reduce interference caused by nearby power lines and cultural objects such as vehicles and metal fences.

Electromagnetic Metal Detecting using the Fisher M-Scope
AGS uses the M-Scope to rapidly scan for localized, shallowly-buried metal masses (e.g., a buried vault lid, manhole cover, metallic trash). Briefly, the M-Scope comprises a pair of wire coils (transmitter and receiver coils) connected by a short metal staff; the receiver coil is first "tuned" to a null position with respect to the magnetic field emanating from the transmitter coil. When the M-Scope is held near a metal object, the magnetic field becomes disrupted or distorted and the system is thrown "out of tune." The M-Scope is designed to emit an audible tone when it is out of tune, thus signaling the presence of a nearby metal object. However, the M-Scope has a limited investigation depth (about 3 feet bgs) and is not effective near surface metal objects; in addition, because the M-Scope responds to changes in soil conductivity, its sensitivity setting must be reduced in electrically conductive (e.g., moist, fine-grained) soil, which results in a corresponding reduction in the instrument's effectiveness.

Ground Penetrating Radar (GPR)
GPR uses radar technology to produce a graphical profile of the subsurface that shows soil layering and images of buried objects. GPR systems typically use a single transceiving antenna (one that both transmits and receives the radar signal) that is dragged along the ground surface. The antenna emits a radar pulse into the ground; some of the radar energy reflects off of interfaces between materials with different electrical properties (e.g., soil and a UST) and returns to the surface where it is detected by the antenna and sent via the cable to a separate control unit where it is amplified and displayed on a computer screen as a vertical "wiggle trace," which is a plot of the strength (amplitude) of the received GPR signal (i.e., the reflection) over time. Although the vertical scale of a GPR profile is usually

considered as depth, it actually measures the travel time of the radar pulse from the surface to a reflecting interface and back to the surface.

A subsurface profile is built as the antenna is pulled along the survey line and successive wiggle traces are recorded. GPR data are usually displayed as an array of closely-spaced traces; this procedure produces an image of the subsurface as the reflections (wiggles) on adjacent traces merge into coherent patterns. Soil layer boundaries appear as laterally continuous horizontal bands across a GPR profile. Buried objects appear as localized, high-amplitude (dark) reflection patterns. Buried pipes and USTs exhibit a characteristic "upside down U" hyperbolic pattern, which allows them to be readily identified on a GPR record. Burial depths are determined by using calibrating GPR profiles with images objects buried at known depths. Culverts and storm drain pipelines observed in drop inlets are often used for this purpose.

5.0 FIELD PROCEDURES

AGS first prepared a detailed map of each site so the investigation findings and the locations of the geophysical survey lines could be documented. The maps also showed site features that could produce geophysical noise so their presence and locations would be known when the geophysical data were examined for UST indications. The maps were prepared by laying down fiberglass tape measures in a grid pattern across each site and plotting the locations of significant site features, such as curb lines, building faces, metal poles, on grid paper (at scale of 1-inch equals 5 feet). AGS then performed a GPR survey by hand-pushing the cart-mounted GPR system back-and-forth across each site along a grid of lines spaced approximately three feet apart. AGS took special care to scan across the Geocon direct-push sample location where the UST was encountered and also across the UST pipe-wells to insure that GPR profiles at the UST locations were obtained. AGS plotted the starting and ending points of each GPR line on the site map as the GPR survey progressed. Next, AGS performed the EM61 survey by wheeling the EM61 instrument back-and-forth across the site along north-south survey lines spaced approximately three feet apart. The EM61 readings were obtained by pressing the instrument's "demand-read" button every 2.5 feet along each survey line, and the readings were recorded by the EM61 data logger. As with the GPR survey, AGS plotted the starting and ending points of each line on the site map as the EM61 progressed. After the recording the EM61 data, AGS then scanned the site in "reconnaissance mode" to look for real-time UST indications. In reconnaissance mode, the EM61 instrument emits an audible tone in when the coils pass near metal objects, but no data are recorded. AGS also scanned each site with the Fisher M-Scope to look for buried metal indications.

6.0 DATA PROCESSING AND ANALYSIS

The M-Scope and GPR data were analyzed in the field as the investigation progressed. The M-Scope is designed to produce an audible tone when held near a metallic object; a detected object's location is then pinpointed by adjusting the instrument's sensitivity and monitoring the instrument readout to determine the "peak signal" location. For the GPR survey, AGS monitored the GPR data in the field to look for definitive

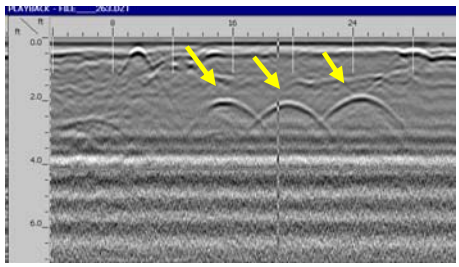


Figure 4 – Example images of three USTs buried about 2 feet bgs on the NE corner of 4th and E St

"upside-down U" reflection patterns, which would indicate a UST with near certainty. For reference, example USTs images from another Marysville location nearby (not part of this investigation) are presented on Figure 4, above. AGS took special care to obtain GPR data across suspected UST locations as indicated by the pipe-wells direct-push findings. AGS then re-examined the GPR data upon returning to the office to look for weaker images that may have gone unnoticed in the field.

EM61 data processing was done using the GEOSOFT Oasis montaj earth science software system. A GEOSOFT kriging algorithm was used to prepare color-filled contour maps showing EM61 response variations (in millivolts) across the site (Figures 5 and 6). As part of the analysis, AGS looked for high-amplitude responses not readily attributable to known metallic site features, such as vehicles and metal debris. Such responses are considered "anomalies" and are attributed to subsurface source bodies, which may include USTs, buried utilities, reinforced concrete foundations, and miscellaneous metallic debris. On the color contour maps, anomalies appear as "hot" (orange, red, and pink) colors representing areas with elevated EM61 measurements indicative of metallic objects.

Because the EM61 was designed to produce a positive signal peak at the center of the metallic source body, it tends to produce anomalies with a shape and extent that approximates the footprint of the metal source object. Accordingly, AGS looked for rectangular anomalies with a footprint corresponding to common UST dimensions, although it is worth noting that as part of the interpretation process AGS considers all buried metal anomalies and endeavors to attribute each one to a source object(s). Anomaly amplitudes associated with USTs and similarly-sized metallic substructures depend on burial depth, but they are typically 200 millivolts (mV) or greater.

AGS incorporated the site map into the EM61 contour map so that responses associated with surface metal objects and underground utilities could be identified and disregarded from consideration as a possible UST indication. As a further aid to the analysis, data profiles for each survey transect were prepared and inspected. The profiles are especially useful for assessing anomaly amplitudes and for identifying bad data caused by, say, a loose connection within the EM system or other type of equipment malfunction.

7.0 RESULTS

Investigation results are shown on Figures 5 and 6. Figure 5 is a map of the North Site investigation area that shows the EM61 and GPR survey line locations; the map also presents the EM61 survey results as a color-filled contour map. Similarly, Figure 6 is a map of the South Site investigation area that shows the EM61 and GPR survey line locations and the EM61 survey results.

North Site- A UST was encountered at a depth of about four feet during Geocon's direct-push (DP) sampling activities at the North site. AGS identified a 4.5- by 7.0-foot area of elevated, metal-indicating EM61 response centered on the DP sample location. The elevated response may be associated with a UST; however, because the EM61 data were extremely noisy due to interference from numerous underground utilities and surface metal objects, the EM61 survey did not provide a definitive result regarding the extent of the UST. GPR achieved a signal penetration depth of about three feet; accordingly, the UST was not detected with GPR because it is too deeply buried to be imaged. North

Site results are presented on Figure 5.

South Site- South Site- The presence of UST(s) at the South Site is indicated by two shallow pipe-wells imbedded in the sidewalk along E Street. Removing the metal plates ("lids") covering each well revealed capped vertical pipes protruding from the ground, and one of the wells contained a placard reading "Associated Flying A Gasoline." EM61 data show a single 5- by 9-foot area of elevated response associated with the two pipe-wells; accordingly, the EM61 data suggest that only one UST is present at this location. It's possible that the two pipe-wells house UST vent and fill pipes, respectively. GPR achieved a signal penetration depth of about three feet; accordingly, the UST was not detected with GPR because it is too deeply buried to be imaged. The overall high readings observed at the South Site indicate that other buried metal objects may also be present. South Site results are presented on Figure 6.

8.0 LIMITATIONS OF GEOPHYSICAL LOCATING METHODS

In general, a geophysical method's limitations for detecting a particular target are related to the target's size, burial depth, the amount of contrast in material properties between the target and surrounding material, and finally, the amount of interference from surrounding site features. For a target to be detected it must have sufficient size to reflect or otherwise disturb some the incoming energy used for detection. It also must have enough contrast with the surrounding material to reflect or otherwise disturb enough of the incoming energy so as to be detected. And, finally, it can't be buried so deeply that the reflected/disturbed energy is so dissipated that it is too weak to be detected when it returns to the surface. Weak energy returns during geophysical investigations are further exacerbated by ambient noise like that produced by natural and cultural features, such as utilities, fences, parked vehicles, vegetative cover, and debris.

In general, metal USTs make good targets for geophysical investigations because the electrical properties of metal contrast greatly with those of the surrounding soil or fill material; however, UST investigations are often complicated by unfavorable soil conditions and by interference from surface or near-surface metallic objects such a vehicles, reinforced concrete pavement, and buried utilities, sometimes to the degree that little or no useful subsurface information can be obtained. As stated above and shown on Figure 5, the North Site contained numerous surface metal objects and a number of buried utilities that produced interfering noise in the EM61 geophysical data. In addition, the soil conditions limited the GPR signal penetration to approximately 3 feet and no UST images were observed on the GPR records. Accordingly, the geophysical investigation did not provide any additional information about the UST at the North Site. Although the South Site had the same GPR limitations as the North Site, it was relatively free of surface metal and buried utilities so that a coherent EM61 anomaly, one that appears to be associated with a UST, could be identified.

9.0 CLOSING

All geophysical data and field notes collected for this investigation will be archived at the AGS office. The data collection and interpretation methods used in this investigation are consistent with standard practices applied to similar geophysical investigations. The correlation of geophysical responses with probable subsurface features is based on the past results of similar surveys although it is possible that

some variation could exist at this site. Due to the nature of geophysical data, no guarantees can be made or implied regarding the targets identified or the presence or absence of additional objects or targets.

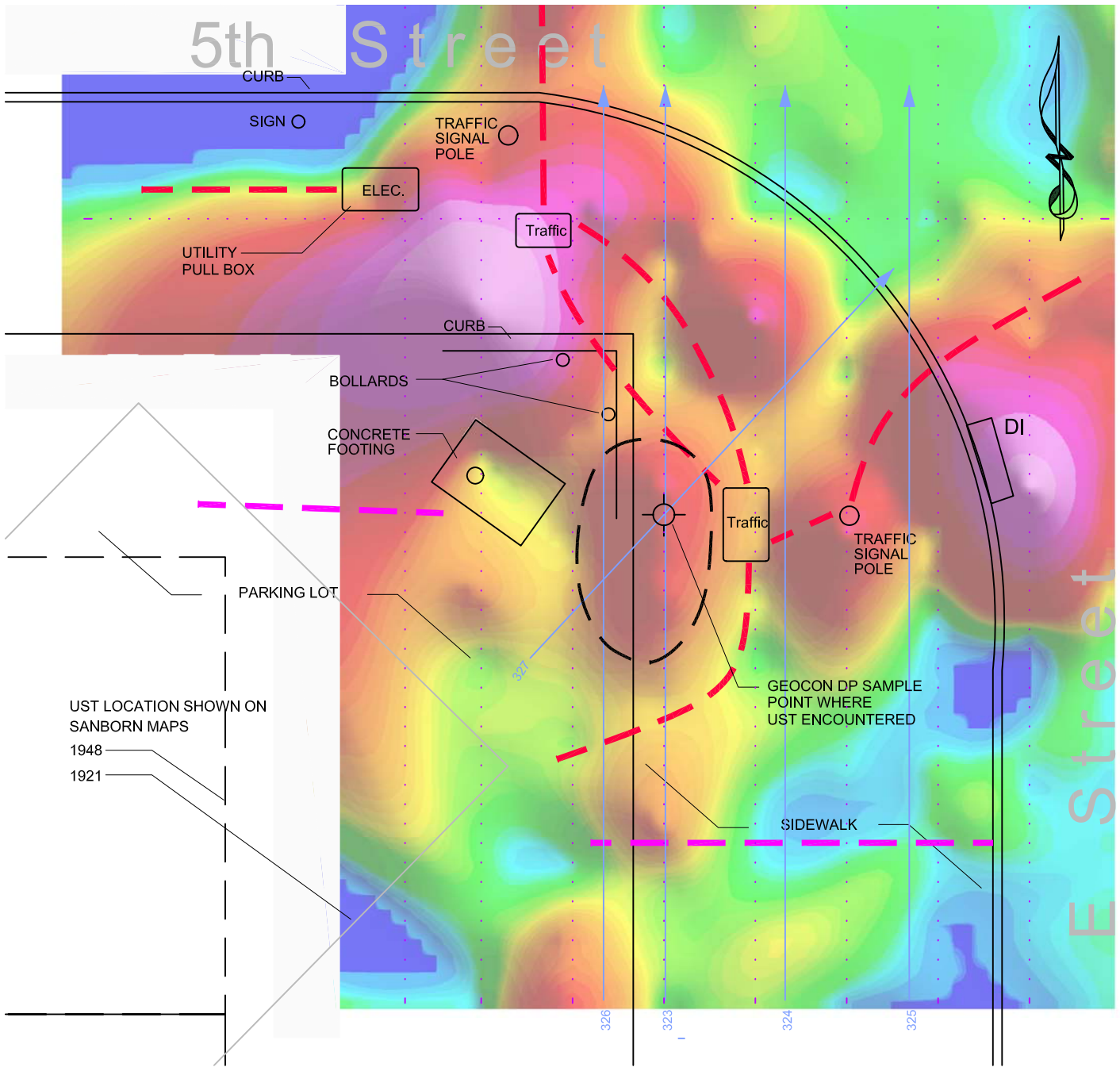
We appreciated working for you on this project and hope to work with you again. If you have any questions, I can be reached at (925) 808-8965 or Rsmith@Advancedgeo.com.

Respectfully,

Roark W. Smith, GP 987
Senior Geophysicist
Advanced Geological Services

Figures:

Figure 1	Site Location Map (imbedded in Report text)
Figure 2	Photograph of UST Fill/Vent pipe wells at 420 E Street, South Site (imbedded)
Figure 3	Photograph of placard found in UST Fill/Vent Pipe well at 420 E Street, South Site (imbedded)
Figure 4	Example GPR image of USTs at 4th and E Street, Marysville, Not part of this Investigation (imbedded)
Figure 5	Geophysical Investigation Results- 5th and E Street (North Site)
Figure 6	Geophysical Investigation Results- 420 E Street (South Site)



EXPLANATION

POSSIBLE UST RESPONSE AREA

GPR LINE

EM61 LINE

BURIED UTILITIES DETECTED:

ELECTRICAL

UNKNOWN

mV

0 1 1 21 43 59 76 91 112 133 158 190 231 271 319 375 450 560 760 1242

Metal Area

EM61 RESPONSE

0 5 FT 10

ADVANCED GEOLOGICAL SERVICES

GEOCON

1605 School Street
Suite 4
Moraga, CA 94556
(925) 808-8965

Geophysical UST Investigation Results
SW Corner 5th and E Street (North Site)
Marysville, California

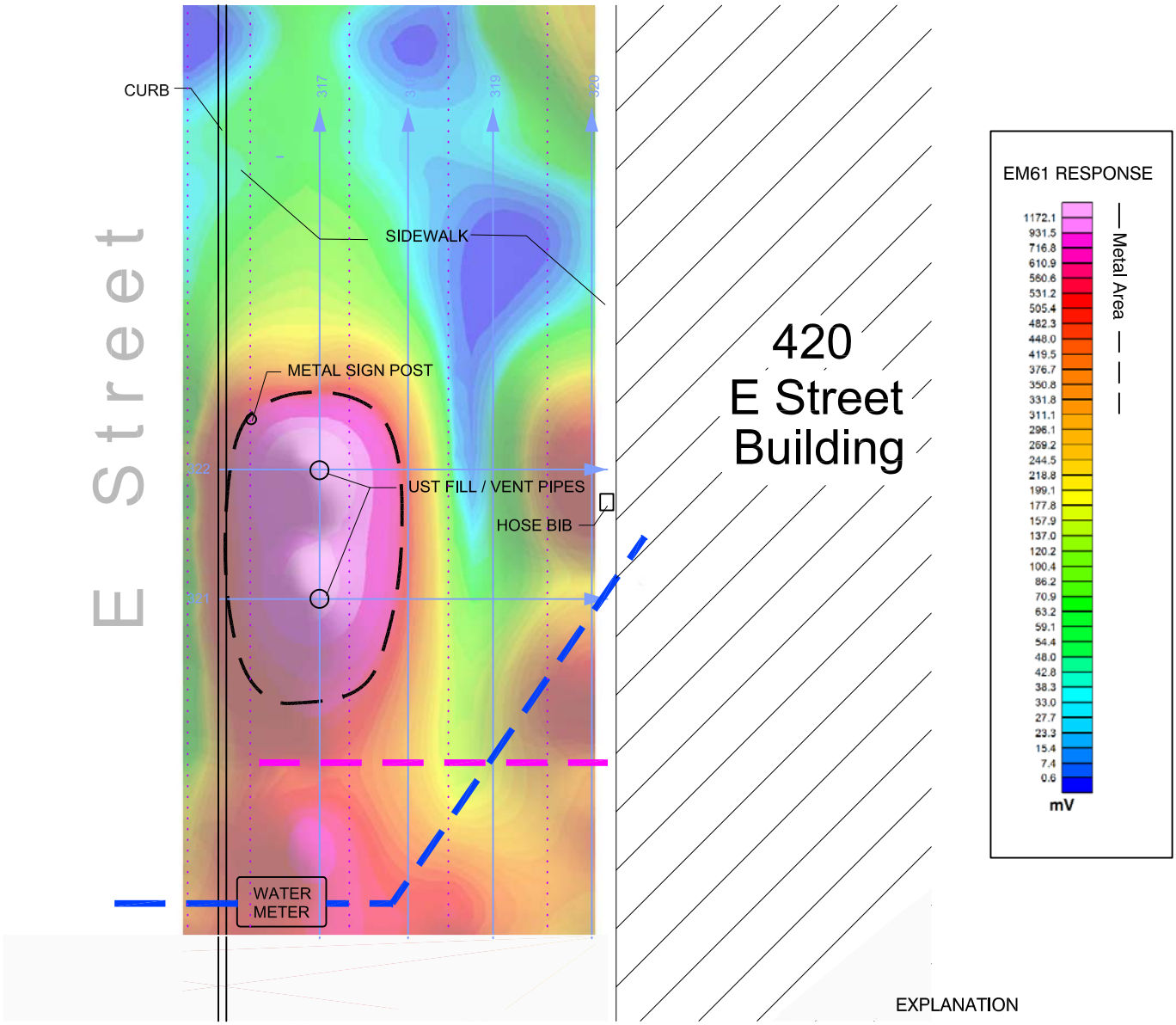
LOCATION: Marysville, California

CLIENT: Geocon Consultants,Inc.

PROJECT #: 14-014-1CA

DATE: Mar 24, 2014 DRAWN BY: R. SMITH

FIGURE 5



EXPLANATION

EM61 ANOMALY INDICATIVE OF UST

GPR LINE

EM61 LINE

BURIED UTILITIES DETECTED:

WATER

UNKNOWN

0 5 FT 10

ADVANCED GEOLOGICAL SERVICES

GEOCON

1605 School Street
Suite 4
Moraga, CA 94556
(925) 808-8965

Geophysical UST Investigation Results
420 E Street (South Site)
Marysville, California

LOCATION: Marysville, California

CLIENT: Geocon Consultants,Inc.

PROJECT #: 14-014-1CA

DATE: Mar 24, 2014

DRAWN BY: R. SMITH

FIGURE 6

APPENDIX D

ADVANCED TECHNOLOGY LABORATORIES

March 24, 2014

John Juhrend
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax:(916) 852-9132

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1400806
Client Reference : Yuba HIP, S9805-01-23

Enclosed are the results for sample(s) received on March 15, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
20/F-NE-3.5	1400806-01	Soil	3/12/14 9:03	3/15/14 9:29
20/F-NW-3.5	1400806-04	Soil	3/12/14 10:19	3/15/14 9:29
20/G-NE-3.5	1400806-07	Soil	3/12/14 11:08	3/15/14 9:29
20/G-NW-3.5	1400806-10	Soil	3/12/14 11:57	3/15/14 9:29
20/H-NE-3.5	1400806-13	Soil	3/12/14 12:49	3/15/14 9:29
20/H-NW-3.5	1400806-16	Soil	3/12/14 13:31	3/15/14 9:29
20/LEMON-NE-3.5	1400806-18	Soil	3/12/14 14:07	3/15/14 9:29
20/H-SW-3.5	1400806-21	Soil	3/13/14 8:23	3/15/14 9:29
20/H-SE-3.5	1400806-24	Soil	3/13/14 9:21	3/15/14 9:29
20/H-SE-7.5	1400806-26	Soil	3/13/14 9:34	3/15/14 9:29
20/H-SE-11.5	1400806-28	Soil	3/13/14 9:54	3/15/14 9:29
20/G-SW-1.0	1400806-29	Soil	3/13/14 10:33	3/15/14 9:29
20/G-SW-7.5	1400806-30	Soil	3/13/14 10:37	3/15/14 9:29
20/F-SW-3.5	1400806-32	Soil	3/13/14 11:06	3/15/14 9:29
20/F-SE-1.5	1400806-35	Soil	3/13/14 11:58	3/15/14 9:29
20/F-SE-6.5	1400806-36	Soil	3/13/14 12:00	3/15/14 9:29
70/5-NW-3.5	1400806-38	Soil	3/13/14 12:40	3/15/14 9:29
70/5-NW-7.5	1400806-40	Soil	3/13/14 12:55	3/15/14 9:29
70/5-NW-11.5	1400806-42	Soil	3/13/14 13:08	3/15/14 9:29
70/4-SW-7.5	1400806-43	Soil	3/13/14 14:25	3/15/14 9:29
70/4-SE-3.5	1400806-45	Soil	3/13/14 15:15	3/15/14 9:29
70/4-SE-7.5	1400806-46	Soil	3/13/14 15:20	3/15/14 9:29
70/4-SE-GW	1400806-47	Groundwater	3/13/14 15:43	3/15/14 9:29
70/5-NE-3.5	1400806-48	Soil	3/14/14 13:17	3/15/14 9:29
70/5-NE-6.0	1400806-49	Soil	3/14/14 13:24	3/15/14 9:29
70/5-NE-11.5	1400806-51	Soil	3/14/14 13:30	3/15/14 9:29

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Mercury by AA (Cold Vapor) EPA 7471A

Analyte: Mercury **Analyst: SB**

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1400806-01	20/F-NE-3.5	**ND**	mg/kg	0.10	NA	1	B4C0406	03/20/2014	03/21/14 10:31	
1400806-04	20/F-NW-3.5	**ND**	mg/kg	0.10	NA	1	B4C0406	03/20/2014	03/21/14 10:33	
1400806-07	20/G-NE-3.5	**ND**	mg/kg	0.10	NA	1	B4C0406	03/20/2014	03/21/14 10:35	
1400806-10	20/G-NW-3.5	**ND**	mg/kg	0.10	NA	1	B4C0406	03/20/2014	03/21/14 10:37	
1400806-13	20/H-NE-3.5	**ND**	mg/kg	0.10	NA	1	B4C0408	03/20/2014	03/21/14 10:43	
1400806-16	20/H-NW-3.5	**ND**	mg/kg	0.10	NA	1	B4C0408	03/20/2014	03/21/14 10:58	
1400806-18	20/LEMON-NE-3.5	**ND**	mg/kg	0.10	NA	1	B4C0408	03/20/2014	03/21/14 10:59	
1400806-21	20/H-SW-3.5	**0.17**	mg/kg	0.10	NA	1	B4C0408	03/20/2014	03/21/14 11:01	
1400806-24	20/H-SE-3.5	**ND**	mg/kg	0.10	NA	1	B4C0408	03/20/2014	03/21/14 11:03	
1400806-26	20/H-SE-7.5	**ND**	mg/kg	0.10	NA	1	B4C0408	03/20/2014	03/21/14 11:05	
1400806-28	20/H-SE-11.5	**ND**	mg/kg	0.10	NA	1	B4C0408	03/20/2014	03/21/14 11:07	
1400806-30	20/G-SW-7.5	**ND**	mg/kg	0.10	NA	1	B4C0408	03/20/2014	03/21/14 11:09	
1400806-32	20/F-SW-3.5	**ND**	mg/kg	0.10	NA	1	B4C0408	03/20/2014	03/21/14 11:15	
1400806-36	20/F-SE-6.5	**ND**	mg/kg	0.10	NA	1	B4C0408	03/20/2014	03/21/14 11:17	
1400806-38	70/5-NW-3.5	**ND**	mg/kg	0.10	NA	1	B4C0407	03/20/2014	03/21/14 11:23	
1400806-40	70/5-NW-7.5	**ND**	mg/kg	0.10	NA	1	B4C0407	03/20/2014	03/21/14 11:33	
1400806-42	70/5-NW-11.5	**ND**	mg/kg	0.10	NA	1	B4C0407	03/20/2014	03/21/14 11:39	
1400806-43	70/4-SW-7.5	**ND**	mg/kg	0.10	NA	1	B4C0407	03/20/2014	03/21/14 11:41	
1400806-45	70/4-SE-3.5	**0.74**	mg/kg	0.10	NA	1	B4C0407	03/20/2014	03/21/14 11:43	
1400806-46	70/4-SE-7.5	**ND**	mg/kg	0.10	NA	1	B4C0407	03/20/2014	03/21/14 11:45	
1400806-48	70/5-NE-3.5	**ND**	mg/kg	0.10	NA	1	B4C0407	03/20/2014	03/21/14 11:47	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/F-NE-3.5
Lab ID: 1400806-01

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Arsenic	**3.9**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Barium	**130**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Beryllium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Cadmium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Chromium	**43**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Cobalt	**12**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Copper	**35**	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Lead	**6.2**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Molybdenum	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Nickel	**33**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Selenium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Silver	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Thallium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Vanadium	**53**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	
Zinc	**35**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:11	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0321	03/17/2014	03/17/14 17:24	
Surrogate: 4-Bromofluorobenzene	*101 %*	*48 - 137*			B4C0321	03/17/2014	*03/17/14 17:24*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**4.4**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 13:20	
ORO	**4.8**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 13:20	
Surrogate: p-Terphenyl	*66.4 %*	*26 - 145*			B4C0350	03/18/2014	*03/18/14 13:20*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 18:53	
Ethylbenzene	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 18:53	
m,p-Xylene	ND	10	NA	1	B4C0322	03/17/2014	03/17/14 18:53	
MTBE	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 18:53	
o-Xylene	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 18:53	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/F-NE-3.5
Lab ID: 1400806-01

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 18:53	
Surrogate: 1,2-Dichloroethane-d4	*111 %*	*67 - 152*			B4C0322	03/17/2014	*03/17/14 18:53*	
Surrogate: 4-Bromofluorobenzene	*100 %*	*59 - 135*			B4C0322	03/17/2014	*03/17/14 18:53*	
Surrogate: Dibromofluoromethane	*105 %*	*71 - 150*			B4C0322	03/17/2014	*03/17/14 18:53*	
Surrogate: Toluene-d8	*104 %*	*77 - 129*			B4C0322	03/17/2014	*03/17/14 18:53*	

Client Sample ID 20/F-NW-3.5
Lab ID: 1400806-04

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Arsenic	**5.4**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Barium	**120**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Beryllium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Cadmium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Chromium	**50**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Cobalt	**16**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Copper	**36**	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Lead	**6.4**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Molybdenum	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Nickel	**46**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Selenium	**1.7**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Silver	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Thallium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Vanadium	**62**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	
Zinc	**36**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:12	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**4.3**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 14:26	
ORO	**6.5**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 14:26	
Surrogate: p-Terphenyl	*71.6 %*	*26 - 145*			B4C0350	03/18/2014	*03/18/14 14:26*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/G-NE-3.5
Lab ID: 1400806-07

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Arsenic	**5.1**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Barium	**140**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Beryllium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Cadmium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Chromium	**56**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Cobalt	**15**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Copper	**35**	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Lead	**6.7**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Molybdenum	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Nickel	**42**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Selenium	**1.2**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Silver	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Thallium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Vanadium	**69**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	
Zinc	**34**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:14	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**3.0**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 13:36	
ORO	**4.1**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 13:36	
Surrogate: p-Terphenyl	*76.2 %*	*26 - 145*			B4C0350	03/18/2014	*03/18/14 13:36*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/G-NW-3.5
Lab ID: 1400806-10

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Arsenic	**4.2**	0.99	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Barium	**130**	0.99	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Beryllium	ND	0.99	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Cadmium	ND	0.99	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Chromium	**47**	0.99	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Cobalt	**15**	0.99	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Copper	**33**	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Lead	**6.1**	0.99	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Molybdenum	ND	0.99	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Nickel	**42**	0.99	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Selenium	**1.2**	0.99	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Silver	ND	0.99	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Thallium	ND	0.99	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Vanadium	**56**	0.99	NA	1	B4C0388	03/19/2014	03/20/14 11:15	
Zinc	**39**	0.99	NA	1	B4C0388	03/19/2014	03/20/14 11:15	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0321	03/17/2014	03/17/14 17:40	
Surrogate: 4-Bromofluorobenzene	*98.6 %*	*48 - 137*			B4C0321	03/17/2014	*03/17/14 17:40*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**2.8**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 13:53	
ORO	**3.9**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 13:53	
Surrogate: p-Terphenyl	*78.7 %*	*26 - 145*			B4C0350	03/18/2014	*03/18/14 13:53*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 19:12	
Ethylbenzene	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 19:12	
m,p-Xylene	ND	10	NA	1	B4C0322	03/17/2014	03/17/14 19:12	
MTBE	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 19:12	
o-Xylene	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 19:12	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/G-NW-3.5
Lab ID: 1400806-10

Volatile Organic Compounds by EPA 8260B — **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 19:12	
Surrogate: 1,2-Dichloroethane-d4	*112 %*	*67 - 152*			B4C0322	03/17/2014	*03/17/14 19:12*	
Surrogate: 4-Bromofluorobenzene	*98.5 %*	*59 - 135*			B4C0322	03/17/2014	*03/17/14 19:12*	
Surrogate: Dibromofluoromethane	*109 %*	*71 - 150*			B4C0322	03/17/2014	*03/17/14 19:12*	
Surrogate: Toluene-d8	*104 %*	*77 - 129*			B4C0322	03/17/2014	*03/17/14 19:12*	

Client Sample ID 20/H-NE-3.5
Lab ID: 1400806-13

Title 22 Metals by ICP-AES EPA 6010B — **Analyst: CB**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Arsenic	**3.8**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Barium	**140**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Beryllium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Cadmium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Chromium	**47**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Cobalt	**14**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Copper	**32**	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Lead	**6.7**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Molybdenum	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Nickel	**42**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Selenium	**1.1**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Silver	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Thallium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Vanadium	**55**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	
Zinc	**31**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:17	

Diesel Range Organics by EPA 8015B — **Analyst: CR**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**2.7**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 14:10	
ORO	**4.2**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 14:10	
Surrogate: p-Terphenyl	*75.7 %*	*26 - 145*			B4C0350	03/18/2014	*03/18/14 14:10*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/H-NW-3.5
Lab ID: 1400806-16

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Arsenic	**4.1**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Barium	**110**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Beryllium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Cadmium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Chromium	**43**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Cobalt	**12**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Copper	**31**	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Lead	**6.3**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Molybdenum	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Nickel	**38**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Selenium	**1.1**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Silver	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Thallium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Vanadium	**54**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	
Zinc	**31**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:19	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0321	03/17/2014	03/17/14 17:55	
Surrogate: 4-Bromofluorobenzene	*97.7 %*	*48 - 137*			B4C0321	03/17/2014	*03/17/14 17:55*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**4.4**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 12:30	
ORO	**4.9**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 12:30	
Surrogate: p-Terphenyl	*79.7 %*	*26 - 145*			B4C0350	03/18/2014	*03/18/14 12:30*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 19:31	
Ethylbenzene	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 19:31	
m,p-Xylene	ND	10	NA	1	B4C0322	03/17/2014	03/17/14 19:31	
MTBE	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 19:31	
o-Xylene	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 19:31	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/H-NW-3.5
Lab ID: 1400806-16

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0322	03/17/2014	03/17/14 19:31	
Surrogate: 1,2-Dichloroethane-d4	*117 %*	*67 - 152*			B4C0322	03/17/2014	*03/17/14 19:31*	
Surrogate: 4-Bromofluorobenzene	*95.4 %*	*59 - 135*			B4C0322	03/17/2014	*03/17/14 19:31*	
Surrogate: Dibromofluoromethane	*107 %*	*71 - 150*			B4C0322	03/17/2014	*03/17/14 19:31*	
Surrogate: Toluene-d8	*101 %*	*77 - 129*			B4C0322	03/17/2014	*03/17/14 19:31*	

Client Sample ID 20/LEMON-NE-3.5
Lab ID: 1400806-18

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Arsenic	**4.5**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Barium	**89**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Beryllium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Cadmium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Chromium	**55**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Cobalt	**16**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Copper	**39**	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Lead	**5.8**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Molybdenum	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Nickel	**51**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Selenium	**1.1**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Silver	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Thallium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Vanadium	**63**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	
Zinc	**43**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:20	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**3.5**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 12:46	
ORO	**4.0**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 12:46	
Surrogate: p-Terphenyl	*70.2 %*	*26 - 145*			B4C0350	03/18/2014	*03/18/14 12:46*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/H-SW-3.5
Lab ID: 1400806-21

Title 22 Metals by ICP-AES EPA 6010B — **Analyst: CB**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Arsenic	**9.9**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Barium	**91**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Beryllium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Cadmium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Chromium	**36**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Cobalt	**9.5**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Copper	**25**	2.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Lead	**88**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Molybdenum	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Nickel	**30**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Selenium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Silver	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Thallium	ND	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Vanadium	**42**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	
Zinc	**98**	1.0	NA	1	B4C0388	03/19/2014	03/20/14 11:22	

Diesel Range Organics by EPA 8015B — **Analyst: CR**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**1.5**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 13:03	
ORO	**2.1**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 13:03	
Surrogate: p-Terphenyl	*71.5 %*	*26 - 145*			B4C0350	03/18/2014	*03/18/14 13:03*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/H-SE-3.5
Lab ID: 1400806-24

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Arsenic	**3.4**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Barium	**150**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Beryllium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Cadmium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Chromium	**25**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Cobalt	**10**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Copper	**37**	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Lead	**5.4**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Molybdenum	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Nickel	**30**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Selenium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Silver	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Thallium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Vanadium	**41**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	
Zinc	**32**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:33	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0321	03/17/2014	03/17/14 18:11	
Surrogate: 4-Bromofluorobenzene	*101 %*	*48 - 137*			B4C0321	03/17/2014	*03/17/14 18:11*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**2.3**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 12:13	
ORO	**2.2**	1.0	NA	1	B4C0350	03/18/2014	03/18/14 12:13	
Surrogate: p-Terphenyl	*69.3 %*	*26 - 145*			B4C0350	03/18/2014	*03/18/14 12:13*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 16:25	
Ethylbenzene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 16:25	
m,p-Xylene	ND	10	NA	1	B4C0363	03/18/2014	03/18/14 16:25	
MTBE	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 16:25	
o-Xylene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 16:25	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/H-SE-3.5
Lab ID: 1400806-24

Volatile Organic Compounds by EPA 8260B **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 16:25	
Surrogate: 1,2-Dichloroethane-d4	*121 %*	*67 - 152*			B4C0363	03/18/2014	*03/18/14 16:25*	
Surrogate: 4-Bromofluorobenzene	*97.3 %*	*59 - 135*			B4C0363	03/18/2014	*03/18/14 16:25*	
Surrogate: Dibromofluoromethane	*115 %*	*71 - 150*			B4C0363	03/18/2014	*03/18/14 16:25*	
Surrogate: Toluene-d8	*106 %*	*77 - 129*			B4C0363	03/18/2014	*03/18/14 16:25*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/H-SE-7.5
Lab ID: 1400806-26

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Arsenic	**5.3**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Barium	**110**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Beryllium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Cadmium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Chromium	**56**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Cobalt	**18**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Copper	**43**	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Lead	**5.3**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Molybdenum	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Nickel	**56**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Selenium	**1.8**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Silver	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Thallium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Vanadium	**67**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	
Zinc	**47**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:38	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0321	03/17/2014	03/17/14 18:27	
Surrogate: 4-Bromofluorobenzene	*105 %*	*48 - 137*			B4C0321	03/17/2014	*03/17/14 18:27*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**2.5**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 17:45	
ORO	**3.1**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 17:45	
Surrogate: p-Terphenyl	*70.9 %*	*26 - 145*			B4C0354	03/18/2014	*03/18/14 17:45*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 10:07	
Ethylbenzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 10:07	
m,p-Xylene	ND	10	NA	1	B4C0343	03/18/2014	03/18/14 10:07	
MTBE	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 10:07	
o-Xylene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 10:07	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/H-SE-7.5
Lab ID: 1400806-26

Volatile Organic Compounds by EPA 8260B **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 10:07	
Surrogate: 1,2-Dichloroethane-d4	*108 %*		*67 - 152*		B4C0343	03/18/2014	*03/18/14 10:07*	
Surrogate: 4-Bromofluorobenzene	*96.4 %*		*59 - 135*		B4C0343	03/18/2014	*03/18/14 10:07*	
Surrogate: Dibromofluoromethane	*105 %*		*71 - 150*		B4C0343	03/18/2014	*03/18/14 10:07*	
Surrogate: Toluene-d8	*102 %*		*77 - 129*		B4C0343	03/18/2014	*03/18/14 10:07*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/H-SE-11.5
Lab ID: 1400806-28

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Arsenic	**3.1**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Barium	**120**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Beryllium	ND	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Cadmium	ND	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Chromium	**41**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Cobalt	**10**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Copper	**35**	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Lead	**3.5**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Molybdenum	ND	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Nickel	**54**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Selenium	**1.5**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Silver	ND	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Thallium	ND	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Vanadium	**41**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:40	
Zinc	**36**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:40	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0321	03/17/2014	03/17/14 18:43	
Surrogate: 4-Bromofluorobenzene	*105 %*	*48 - 137*			B4C0321	03/17/2014	*03/17/14 18:43*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**3.3**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 18:01	
ORO	**3.8**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 18:01	
Surrogate: p-Terphenyl	*71.4 %*	*26 - 145*			B4C0354	03/18/2014	*03/18/14 18:01*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 10:45	
Ethylbenzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 10:45	
m,p-Xylene	ND	10	NA	1	B4C0343	03/18/2014	03/18/14 10:45	
MTBE	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 10:45	
o-Xylene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 10:45	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/H-SE-11.5
Lab ID: 1400806-28

Volatile Organic Compounds by EPA 8260B — **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 10:45	
Surrogate: 1,2-Dichloroethane-d4	*114 %*	*67 - 152*			B4C0343	03/18/2014	*03/18/14 10:45*	
Surrogate: 4-Bromofluorobenzene	*98.7 %*	*59 - 135*			B4C0343	03/18/2014	*03/18/14 10:45*	
Surrogate: Dibromofluoromethane	*112 %*	*71 - 150*			B4C0343	03/18/2014	*03/18/14 10:45*	
Surrogate: Toluene-d8	*102 %*	*77 - 129*			B4C0343	03/18/2014	*03/18/14 10:45*	

Client Sample ID 20/G-SW-1.0
Lab ID: 1400806-29

Diesel Range Organics by EPA 8015B — **Analyst: CR**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**2.8**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 19:58	
ORO	**3.7**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 19:58	
Surrogate: p-Terphenyl	*74.6 %*	*26 - 145*			B4C0354	03/18/2014	*03/18/14 19:58*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/G-SW-7.5
Lab ID: 1400806-30

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Arsenic	**4.4**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Barium	**110**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Beryllium	ND	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Cadmium	ND	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Chromium	**48**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Cobalt	**14**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Copper	**35**	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Lead	**4.5**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Molybdenum	ND	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Nickel	**50**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Selenium	**1.4**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Silver	ND	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Thallium	ND	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Vanadium	**63**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:41	
Zinc	**34**	0.99	NA	1	B4C0389	03/19/2014	03/20/14 11:41	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0321	03/17/2014	03/17/14 18:59	
Surrogate: 4-Bromofluorobenzene	*108 %*	*48 - 137*			B4C0321	03/17/2014	*03/17/14 18:59*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**3.6**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 18:18	
ORO	**4.4**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 18:18	
Surrogate: p-Terphenyl	*73.9 %*	*26 - 145*			B4C0354	03/18/2014	*03/18/14 18:18*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 11:41	
Ethylbenzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 11:41	
m,p-Xylene	ND	10	NA	1	B4C0343	03/18/2014	03/18/14 11:41	
MTBE	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 11:41	
o-Xylene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 11:41	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/G-SW-7.5
Lab ID: 1400806-30

Volatile Organic Compounds by EPA 8260B — **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 11:41	
Surrogate: 1,2-Dichloroethane-d4	*114 %*	*67 - 152*			B4C0343	03/18/2014	*03/18/14 11:41*	
Surrogate: 4-Bromofluorobenzene	*97.4 %*	*59 - 135*			B4C0343	03/18/2014	*03/18/14 11:41*	
Surrogate: Dibromofluoromethane	*106 %*	*71 - 150*			B4C0343	03/18/2014	*03/18/14 11:41*	
Surrogate: Toluene-d8	*101 %*	*77 - 129*			B4C0343	03/18/2014	*03/18/14 11:41*	

Client Sample ID 20/F-SW-3.5
Lab ID: 1400806-32

Title 22 Metals by ICP-AES EPA 6010B — **Analyst: CB**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Arsenic	**5.3**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Barium	**120**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Beryllium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Cadmium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Chromium	**60**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Cobalt	**17**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Copper	**37**	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Lead	**22**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Molybdenum	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Nickel	**56**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Selenium	**1.9**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Silver	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Thallium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Vanadium	**66**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	
Zinc	**95**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:43	

Diesel Range Organics by EPA 8015B — **Analyst: CR**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**2.4**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 20:14	
ORO	**3.3**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 20:14	
Surrogate: p-Terphenyl	*72.7 %*	*26 - 145*			B4C0354	03/18/2014	*03/18/14 20:14*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/F-SE-1.5
Lab ID: 1400806-35

Diesel Range Organics by EPA 8015B **Analyst: CR**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**4.1**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 18:35	
ORO	**4.6**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 18:35	
Surrogate: p-Terphenyl	*63.6 %*	*26 - 145*			B4C0354	03/18/2014	*03/18/14 18:35*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/F-SE-6.5
Lab ID: 1400806-36

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Arsenic	**3.5**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Barium	**84**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Beryllium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Cadmium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Chromium	**51**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Cobalt	**6.9**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Copper	**32**	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Lead	**4.6**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Molybdenum	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Nickel	**32**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Selenium	**1.5**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Silver	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Thallium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Vanadium	**44**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	
Zinc	**33**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:49	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0344	03/18/2014	03/18/14 12:14	
Surrogate: 4-Bromofluorobenzene	*95.1 %*		*48 - 137*		B4C0344	03/18/2014	*03/18/14 12:14*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**2.4**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 18:51	
ORO	**3.3**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 18:51	
Surrogate: p-Terphenyl	*78.9 %*		*26 - 145*		B4C0354	03/18/2014	*03/18/14 18:51*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 11:59	
Ethylbenzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 11:59	
m,p-Xylene	ND	10	NA	1	B4C0343	03/18/2014	03/18/14 11:59	
MTBE	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 11:59	
o-Xylene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 11:59	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 20/F-SE-6.5
Lab ID: 1400806-36

Volatile Organic Compounds by EPA 8260B **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 11:59	
Surrogate: 1,2-Dichloroethane-d4	*118 %*	*67 - 152*			B4C0343	03/18/2014	*03/18/14 11:59*	
Surrogate: 4-Bromofluorobenzene	*96.3 %*	*59 - 135*			B4C0343	03/18/2014	*03/18/14 11:59*	
Surrogate: Dibromofluoromethane	*115 %*	*71 - 150*			B4C0343	03/18/2014	*03/18/14 11:59*	
Surrogate: Toluene-d8	*102 %*	*77 - 129*			B4C0343	03/18/2014	*03/18/14 11:59*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/5-NW-3.5
Lab ID: 1400806-38

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Arsenic	**3.6**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Barium	**83**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Beryllium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Cadmium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Chromium	**47**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Cobalt	**5.9**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Copper	**34**	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Lead	**6.3**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Molybdenum	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Nickel	**37**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Selenium	**1.9**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Silver	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Thallium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Vanadium	**55**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	
Zinc	**28**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:50	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0344	03/18/2014	03/18/14 12:46	
Surrogate: 4-Bromofluorobenzene	*104 %*	*48 - 137*			B4C0344	03/18/2014	*03/18/14 12:46*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**3.5**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 19:08	
ORO	**4.6**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 19:08	
Surrogate: p-Terphenyl	*79.9 %*	*26 - 145*			B4C0354	03/18/2014	*03/18/14 19:08*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:18	
Ethylbenzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:18	
m,p-Xylene	ND	10	NA	1	B4C0343	03/18/2014	03/18/14 12:18	
MTBE	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:18	
o-Xylene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:18	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/5-NW-3.5
Lab ID: 1400806-38

Volatile Organic Compounds by EPA 8260B **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:18	
Surrogate: 1,2-Dichloroethane-d4	*119 %*	*67 - 152*			B4C0343	03/18/2014	*03/18/14 12:18*	
Surrogate: 4-Bromofluorobenzene	*97.6 %*	*59 - 135*			B4C0343	03/18/2014	*03/18/14 12:18*	
Surrogate: Dibromofluoromethane	*107 %*	*71 - 150*			B4C0343	03/18/2014	*03/18/14 12:18*	
Surrogate: Toluene-d8	*102 %*	*77 - 129*			B4C0343	03/18/2014	*03/18/14 12:18*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/5-NW-7.5
Lab ID: 1400806-40

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Arsenic	**4.7**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Barium	**110**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Beryllium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Cadmium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Chromium	**52**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Cobalt	**16**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Copper	**44**	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Lead	**5.1**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Molybdenum	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Nickel	**75**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Selenium	**2.1**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Silver	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Thallium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Vanadium	**57**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	
Zinc	**39**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:52	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0344	03/18/2014	03/18/14 13:02	
Surrogate: 4-Bromofluorobenzene	*102 %*	*48 - 137*			B4C0344	03/18/2014	*03/18/14 13:02*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**2.4**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 19:25	
ORO	**3.1**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 19:25	
Surrogate: p-Terphenyl	*79.7 %*	*26 - 145*			B4C0354	03/18/2014	*03/18/14 19:25*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:36	
Ethylbenzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:36	
m,p-Xylene	ND	10	NA	1	B4C0343	03/18/2014	03/18/14 12:36	
MTBE	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:36	
o-Xylene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:36	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/5-NW-7.5
Lab ID: 1400806-40

Volatile Organic Compounds by EPA 8260B **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:36	
Surrogate: 1,2-Dichloroethane-d4	*119 %*	*67 - 152*			B4C0343	03/18/2014	*03/18/14 12:36*	
Surrogate: 4-Bromofluorobenzene	*96.4 %*	*59 - 135*			B4C0343	03/18/2014	*03/18/14 12:36*	
Surrogate: Dibromofluoromethane	*116 %*	*71 - 150*			B4C0343	03/18/2014	*03/18/14 12:36*	
Surrogate: Toluene-d8	*105 %*	*77 - 129*			B4C0343	03/18/2014	*03/18/14 12:36*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/5-NW-11.5
Lab ID: 1400806-42

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Arsenic	**5.1**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Barium	**140**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Beryllium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Cadmium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Chromium	**59**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Cobalt	**16**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Copper	**41**	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Lead	**5.0**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Molybdenum	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Nickel	**54**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Selenium	**1.8**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Silver	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Thallium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Vanadium	**60**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	
Zinc	**46**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:53	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0344	03/18/2014	03/18/14 13:17	
Surrogate: 4-Bromofluorobenzene	*106 %*	*48 - 137*			B4C0344	03/18/2014	*03/18/14 13:17*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**2.4**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 19:41	
ORO	**3.0**	1.0	NA	1	B4C0354	03/18/2014	03/18/14 19:41	
Surrogate: p-Terphenyl	*87.8 %*	*26 - 145*			B4C0354	03/18/2014	*03/18/14 19:41*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:55	
Ethylbenzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:55	
m,p-Xylene	ND	10	NA	1	B4C0343	03/18/2014	03/18/14 12:55	
MTBE	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:55	
o-Xylene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:55	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/5-NW-11.5
Lab ID: 1400806-42

Volatile Organic Compounds by EPA 8260B **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 12:55	
Surrogate: 1,2-Dichloroethane-d4	*121 %*	*67 - 152*			B4C0343	03/18/2014	*03/18/14 12:55*	
Surrogate: 4-Bromofluorobenzene	*100 %*	*59 - 135*			B4C0343	03/18/2014	*03/18/14 12:55*	
Surrogate: Dibromofluoromethane	*116 %*	*71 - 150*			B4C0343	03/18/2014	*03/18/14 12:55*	
Surrogate: Toluene-d8	*103 %*	*77 - 129*			B4C0343	03/18/2014	*03/18/14 12:55*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/4-SW-7.5
Lab ID: 1400806-43

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Arsenic	**4.3**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Barium	**89**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Beryllium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Cadmium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Chromium	**38**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Cobalt	**12**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Copper	**28**	2.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Lead	**5.1**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Molybdenum	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Nickel	**36**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Selenium	**1.6**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Silver	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Thallium	ND	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Vanadium	**51**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	
Zinc	**30**	1.0	NA	1	B4C0389	03/19/2014	03/20/14 11:55	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0344	03/18/2014	03/18/14 13:32	
Surrogate: 4-Bromofluorobenzene	*106 %*	*48 - 137*			B4C0344	03/18/2014	*03/18/14 13:32*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**4.2**	1.0	NA	1	B4C0365	03/18/2014	03/18/14 23:52	
ORO	**5.7**	1.0	NA	1	B4C0365	03/18/2014	03/18/14 23:52	
Surrogate: p-Terphenyl	*75.3 %*	*26 - 145*			B4C0365	03/18/2014	*03/18/14 23:52*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:14	
Ethylbenzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:14	
m,p-Xylene	ND	10	NA	1	B4C0343	03/18/2014	03/18/14 13:14	
MTBE	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:14	
o-Xylene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:14	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/4-SW-7.5
Lab ID: 1400806-43

Volatile Organic Compounds by EPA 8260B **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:14	
Surrogate: 1,2-Dichloroethane-d4	*113 %*	*67 - 152*			B4C0343	03/18/2014	*03/18/14 13:14*	
Surrogate: 4-Bromofluorobenzene	*94.1 %*	*59 - 135*			B4C0343	03/18/2014	*03/18/14 13:14*	
Surrogate: Dibromofluoromethane	*110 %*	*71 - 150*			B4C0343	03/18/2014	*03/18/14 13:14*	
Surrogate: Toluene-d8	*105 %*	*77 - 129*			B4C0343	03/18/2014	*03/18/14 13:14*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/4-SE-3.5
Lab ID: 1400806-45

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Arsenic	**12**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Barium	**110**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Beryllium	ND	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Cadmium	ND	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Chromium	**38**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Cobalt	**9.6**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Copper	**33**	2.0	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Lead	**130**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Molybdenum	ND	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Nickel	**33**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Selenium	**1.4**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Silver	ND	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Thallium	ND	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Vanadium	**47**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:02	
Zinc	**80**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:02	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0344	03/18/2014	03/18/14 13:48	
Surrogate: 4-Bromofluorobenzene	*103 %*	*48 - 137*			B4C0344	03/18/2014	*03/18/14 13:48*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**6.9**	1.0	NA	1	B4C0365	03/18/2014	03/19/14 00:25	
ORO	**13**	1.0	NA	1	B4C0365	03/18/2014	03/19/14 00:25	
Surrogate: p-Terphenyl	*71.2 %*	*26 - 145*			B4C0365	03/18/2014	*03/19/14 00:25*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:33	
Ethylbenzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:33	
m,p-Xylene	ND	10	NA	1	B4C0343	03/18/2014	03/18/14 13:33	
MTBE	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:33	
o-Xylene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:33	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/4-SE-3.5
Lab ID: 1400806-45

Volatile Organic Compounds by EPA 8260B **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:33	
Surrogate: 1,2-Dichloroethane-d4	*124 %*	*67 - 152*			B4C0343	03/18/2014	*03/18/14 13:33*	
Surrogate: 4-Bromofluorobenzene	*97.2 %*	*59 - 135*			B4C0343	03/18/2014	*03/18/14 13:33*	
Surrogate: Dibromofluoromethane	*114 %*	*71 - 150*			B4C0343	03/18/2014	*03/18/14 13:33*	
Surrogate: Toluene-d8	*102 %*	*77 - 129*			B4C0343	03/18/2014	*03/18/14 13:33*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/4-SE-7.5
Lab ID: 1400806-46

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Arsenic	**4.1**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Barium	**77**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Beryllium	ND	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Cadmium	ND	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Chromium	**46**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Cobalt	**12**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Copper	**33**	2.0	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Lead	**20**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Molybdenum	ND	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Nickel	**46**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Selenium	**1.7**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Silver	ND	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Thallium	ND	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Vanadium	**44**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:11	
Zinc	**41**	0.99	NA	1	B4C0390	03/19/2014	03/20/14 12:11	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0344	03/18/2014	03/18/14 14:04	
Surrogate: 4-Bromofluorobenzene	*99.5 %*	*48 - 137*			B4C0344	03/18/2014	*03/18/14 14:04*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**4.4**	1.0	NA	1	B4C0365	03/18/2014	03/19/14 00:08	
ORO	**5.7**	1.0	NA	1	B4C0365	03/18/2014	03/19/14 00:08	
Surrogate: p-Terphenyl	*67.9 %*	*26 - 145*			B4C0365	03/18/2014	*03/19/14 00:08*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:51	
Ethylbenzene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:51	
m,p-Xylene	ND	10	NA	1	B4C0343	03/18/2014	03/18/14 13:51	
MTBE	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:51	
o-Xylene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:51	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/4-SE-7.5
Lab ID: 1400806-46

Volatile Organic Compounds by EPA 8260B — **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0343	03/18/2014	03/18/14 13:51	
Surrogate: 1,2-Dichloroethane-d4	*122 %*		*67 - 152*		B4C0343	03/18/2014	*03/18/14 13:51*	
Surrogate: 4-Bromofluorobenzene	*101 %*		*59 - 135*		B4C0343	03/18/2014	*03/18/14 13:51*	
Surrogate: Dibromofluoromethane	*110 %*		*71 - 150*		B4C0343	03/18/2014	*03/18/14 13:51*	
Surrogate: Toluene-d8	*104 %*		*77 - 129*		B4C0343	03/18/2014	*03/18/14 13:51*	

Client Sample ID 70/4-SE-GW
Lab ID: 1400806-47

Gasoline Range Organics by EPA 8015B (Modified) — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	0.05	NA	1	B4C0396	03/20/2014	03/20/14 11:50	
Surrogate: 4-Bromofluorobenzene	*98.2 %*		*70 - 130*		B4C0396	03/20/2014	*03/20/14 11:50*	

Diesel Range Organics by EPA 8015B — **Analyst: CR**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	ND	0.07	NA	1	B4C0326	03/17/2014	03/17/14 16:59	
ORO	ND	0.07	NA	1	B4C0326	03/17/2014	03/17/14 16:59	
Surrogate: p-Terphenyl	*87.1 %*		*30 - 142*		B4C0326	03/17/2014	*03/17/14 16:59*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/5-NE-3.5
Lab ID: 1400806-48

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Arsenic	**5.1**	1.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Barium	**110**	1.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Beryllium	ND	1.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Cadmium	ND	1.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Chromium	**59**	1.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Cobalt	**15**	1.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Copper	**39**	2.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Lead	**6.7**	1.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Molybdenum	ND	1.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Nickel	**43**	1.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Selenium	**2.3**	1.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Silver	ND	1.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Thallium	ND	1.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Vanadium	**65**	1.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	
Zinc	**38**	1.0	NA	1	B4C0390	03/19/2014	03/20/14 12:13	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0344	03/18/2014	03/18/14 14:19	
Surrogate: 4-Bromofluorobenzene	*102 %*	*48 - 137*			B4C0344	03/18/2014	*03/18/14 14:19*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**4.8**	1.0	NA	1	B4C0365	03/18/2014	03/18/14 22:11	
ORO	**6.6**	1.0	NA	1	B4C0365	03/18/2014	03/18/14 22:11	
Surrogate: p-Terphenyl	*83.0 %*	*26 - 145*			B4C0365	03/18/2014	*03/18/14 22:11*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:02	
Ethylbenzene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:02	
m,p-Xylene	ND	10	NA	1	B4C0363	03/18/2014	03/18/14 17:02	
MTBE	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:02	
o-Xylene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:02	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/5-NE-3.5
Lab ID: 1400806-48

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:02	
Surrogate: 1,2-Dichloroethane-d4	*117 %*	*67 - 152*			B4C0363	03/18/2014	*03/18/14 17:02*	
Surrogate: 4-Bromofluorobenzene	*97.0 %*	*59 - 135*			B4C0363	03/18/2014	*03/18/14 17:02*	
Surrogate: Dibromofluoromethane	*111 %*	*71 - 150*			B4C0363	03/18/2014	*03/18/14 17:02*	
Surrogate: Toluene-d8	*101 %*	*77 - 129*			B4C0363	03/18/2014	*03/18/14 17:02*	

Client Sample ID 70/5-NE-6.0
Lab ID: 1400806-49

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0344	03/18/2014	03/18/14 14:35	
Surrogate: 4-Bromofluorobenzene	*104 %*	*48 - 137*			B4C0344	03/18/2014	*03/18/14 14:35*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**2.9**	1.0	NA	1	B4C0365	03/18/2014	03/18/14 22:28	
ORO	**3.9**	1.0	NA	1	B4C0365	03/18/2014	03/18/14 22:28	
Surrogate: p-Terphenyl	*68.4 %*	*26 - 145*			B4C0365	03/18/2014	*03/18/14 22:28*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:21	
Ethylbenzene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:21	
m,p-Xylene	ND	10	NA	1	B4C0363	03/18/2014	03/18/14 17:21	
MTBE	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:21	
o-Xylene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:21	
Toluene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:21	
Surrogate: 1,2-Dichloroethane-d4	*118 %*	*67 - 152*			B4C0363	03/18/2014	*03/18/14 17:21*	
Surrogate: 4-Bromofluorobenzene	*93.9 %*	*59 - 135*			B4C0363	03/18/2014	*03/18/14 17:21*	
Surrogate: Dibromofluoromethane	*109 %*	*71 - 150*			B4C0363	03/18/2014	*03/18/14 17:21*	
Surrogate: Toluene-d8	*105 %*	*77 - 129*			B4C0363	03/18/2014	*03/18/14 17:21*	

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Client Sample ID 70/5-NE-11.5
Lab ID: 1400806-51

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4C0344	03/18/2014	03/18/14 14:51	
Surrogate: 4-Bromofluorobenzene	*101 %*	*48 - 137*			B4C0344	03/18/2014	*03/18/14 14:51*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**3.0**	1.0	NA	1	B4C0365	03/18/2014	03/18/14 22:45	
ORO	**4.3**	1.0	NA	1	B4C0365	03/18/2014	03/18/14 22:45	
Surrogate: p-Terphenyl	*60.3 %*	*26 - 145*			B4C0365	03/18/2014	*03/18/14 22:45*	

Volatile Organic Compounds by EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:39	
Ethylbenzene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:39	
m,p-Xylene	ND	10	NA	1	B4C0363	03/18/2014	03/18/14 17:39	
MTBE	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:39	
o-Xylene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:39	
Toluene	ND	5.0	NA	1	B4C0363	03/18/2014	03/18/14 17:39	
Surrogate: 1,2-Dichloroethane-d4	*122 %*	*67 - 152*			B4C0363	03/18/2014	*03/18/14 17:39*	
Surrogate: 4-Bromofluorobenzene	*94.7 %*	*59 - 135*			B4C0363	03/18/2014	*03/18/14 17:39*	
Surrogate: Dibromofluoromethane	*112 %*	*71 - 150*			B4C0363	03/18/2014	*03/18/14 17:39*	
Surrogate: Toluene-d8	*103 %*	*77 - 129*			B4C0363	03/18/2014	*03/18/14 17:39*	

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0388 - EPA 3050B									
Blank (B4C0388-BLK1)					Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	ND	2.0			NR				
Arsenic	ND	1.0			NR				
Barium	ND	1.0			NR				
Beryllium	ND	1.0			NR				
Cadmium	ND	1.0			NR				
Chromium	ND	1.0			NR				
Cobalt	ND	1.0			NR				
Copper	ND	2.0			NR				
Lead	ND	1.0			NR				
Molybdenum	ND	1.0			NR				
Nickel	ND	1.0			NR				
Selenium	ND	1.0			NR				
Silver	ND	1.0			NR				
Thallium	ND	1.0			NR				
Vanadium	ND	1.0			NR				
Zinc	ND	1.0			NR				
LCS (B4C0388-BS1)					Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	48.4756	2.0	50.0000		97.0	80 - 120			
Arsenic	48.6014	1.0	50.0000		97.2	80 - 120			
Barium	49.4708	1.0	50.0000		98.9	80 - 120			
Beryllium	50.5614	1.0	50.0000		101	80 - 120			
Cadmium	49.5403	1.0	50.0000		99.1	80 - 120			
Chromium	51.5480	1.0	50.0000		103	80 - 120			
Cobalt	50.6621	1.0	50.0000		101	80 - 120			
Copper	51.1472	2.0	50.0000		102	80 - 120			
Lead	50.0790	1.0	50.0000		100	80 - 120			
Molybdenum	52.9972	1.0	50.0000		106	80 - 120			
Nickel	49.9070	1.0	50.0000		99.8	80 - 120			
Selenium	44.5961	1.0	50.0000		89.2	80 - 120			
Silver	48.6822	1.0	50.0000		97.4	80 - 120			
Thallium	49.8391	1.0	50.0000		99.7	80 - 120			
Vanadium	51.1586	1.0	50.0000		102	80 - 120			
Zinc	51.0994	1.0	50.0000		102	80 - 120			
Duplicate (B4C0388-DUP1)		**Source: 1400697-08**			Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	0.501418	2.0		0.878406	NR		54.6	20	R
Arsenic	6.86276	1.0		6.70311	NR		2.35	20	
Barium	161.159	1.0		100.703	NR		46.2	20	R
Beryllium	0.401428	1.0		0.413468	NR		2.95	20	
Cadmium	1.10439	1.0		0.409625	NR		91.8	20	R
Chromium	18.5614	1.0		18.9978	NR		2.32	20	
Cobalt	6.68004	1.0		6.63136	NR		0.731	20	

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Project Number : Yuba HIP, S9805-01-23
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Reported : 03/24/2014

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0388 - EPA 3050B (continued)									
Duplicate (B4C0388-DUP1) - Continued		**Source: 1400697-08**			Prepared: 3/19/2014 Analyzed: 3/20/2014				
Copper	17.9706	2.0		16.6523	NR		7.62	20	
Lead	8.76306	1.0		9.03231	NR		3.03	20	
Molybdenum	0.895950	1.0		0.920022	NR		2.65	20	
Nickel	16.0371	1.0		15.4935	NR		3.45	20	
Selenium	0.987798	1.0		0.782278	NR		23.2	20	R
Silver	ND	1.0		ND	NR			20	
Thallium	ND	1.0		ND	NR			20	
Vanadium	32.6490	1.0		33.9553	NR		3.92	20	
Zinc	40.7250	1.0		44.7844	NR		9.49	20	
Matrix Spike (B4C0388-MS1)		**Source: 1400697-08**			Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	79.5585	2.0	125.000	0.878406	62.9	21 - 109			
Arsenic	106.642	1.0	125.000	6.70311	80.0	55 - 102			
Barium	200.706	1.0	125.000	100.703	80.0	40 - 130			
Beryllium	103.647	1.0	125.000	0.413468	82.6	60 - 104			
Cadmium	94.6948	1.0	125.000	0.409625	75.4	52 - 100			
Chromium	127.712	1.0	125.000	18.9978	87.0	53 - 113			
Cobalt	110.006	1.0	125.000	6.63136	82.7	53 - 104			
Copper	129.042	2.0	125.000	16.6523	89.9	51 - 122			
Lead	104.321	1.0	125.000	9.03231	76.2	51 - 106			
Molybdenum	99.9380	1.0	125.000	0.920022	79.2	55 - 103			
Nickel	119.398	1.0	125.000	15.4935	83.1	48 - 112			
Selenium	95.6085	1.0	125.000	0.782278	75.9	53 - 104			
Silver	106.230	1.0	125.000	ND	85.0	61 - 109			
Thallium	92.5107	1.0	125.000	ND	74.0	44 - 103			
Vanadium	146.040	1.0	125.000	33.9553	89.7	55 - 115			
Zinc	137.835	1.0	125.000	44.7844	74.4	24 - 130			
Matrix Spike Dup (B4C0388-MSD1)		**Source: 1400697-08**			Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	74.6475	2.0	125.000	0.878406	59.0	21 - 109	6.37	20	
Arsenic	103.649	1.0	125.000	6.70311	77.6	55 - 102	2.85	20	
Barium	231.237	1.0	125.000	100.703	104	40 - 130	14.1	20	
Beryllium	102.095	1.0	125.000	0.413468	81.3	60 - 104	1.51	20	
Cadmium	92.8338	1.0	125.000	0.409625	73.9	52 - 100	1.98	20	
Chromium	126.081	1.0	125.000	18.9978	85.7	53 - 113	1.29	20	
Cobalt	107.708	1.0	125.000	6.63136	80.9	53 - 104	2.11	20	
Copper	131.015	2.0	125.000	16.6523	91.5	51 - 122	1.52	20	
Lead	100.962	1.0	125.000	9.03231	73.5	51 - 106	3.27	20	
Molybdenum	96.9863	1.0	125.000	0.920022	76.9	55 - 103	3.00	20	
Nickel	118.335	1.0	125.000	15.4935	82.3	48 - 112	0.894	20	
Selenium	93.1710	1.0	125.000	0.782278	73.9	53 - 104	2.58	20	
Silver	104.151	1.0	125.000	ND	83.3	61 - 109	1.98	20	
Thallium	90.3679	1.0	125.000	ND	72.3	44 - 103	2.34	20	
Vanadium	146.054	1.0	125.000	33.9553	89.7	55 - 115	0.00944	20	
Zinc	140.634	1.0	125.000	44.7844	76.7	24 - 130	2.01	20	
Batch B4C0389 - EPA 3050B									

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0389 - EPA 3050B (continued)									
Blank (B4C0389-BLK1)					Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	ND	2.0			NR				
Arsenic	ND	1.0			NR				
Barium	ND	1.0			NR				
Beryllium	ND	1.0			NR				
Cadmium	ND	1.0			NR				
Chromium	ND	1.0			NR				
Cobalt	ND	1.0			NR				
Copper	ND	2.0			NR				
Lead	ND	1.0			NR				
Molybdenum	ND	1.0			NR				
Nickel	ND	1.0			NR				
Selenium	ND	1.0			NR				
Silver	ND	1.0			NR				
Thallium	ND	1.0			NR				
Vanadium	ND	1.0			NR				
Zinc	ND	1.0			NR				
LCS (B4C0389-BS1)					Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	46.7762	2.0	50.0000		93.6	80 - 120			
Arsenic	46.7421	1.0	50.0000		93.5	80 - 120			
Barium	47.9457	1.0	50.0000		95.9	80 - 120			
Beryllium	48.9247	1.0	50.0000		97.8	80 - 120			
Cadmium	47.7915	1.0	50.0000		95.6	80 - 120			
Chromium	50.2353	1.0	50.0000		100	80 - 120			
Cobalt	49.0329	1.0	50.0000		98.1	80 - 120			
Copper	49.8192	2.0	50.0000		99.6	80 - 120			
Lead	48.2131	1.0	50.0000		96.4	80 - 120			
Molybdenum	51.1014	1.0	50.0000		102	80 - 120			
Nickel	48.3803	1.0	50.0000		96.8	80 - 120			
Selenium	42.7662	1.0	50.0000		85.5	80 - 120			
Silver	47.1038	1.0	50.0000		94.2	80 - 120			
Thallium	48.1425	1.0	50.0000		96.3	80 - 120			
Vanadium	49.3159	1.0	50.0000		98.6	80 - 120			
Zinc	49.3772	1.0	50.0000		98.8	80 - 120			
Duplicate (B4C0389-DUP1)		**Source: 1400806-24**			Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	ND	2.0		ND	NR			20	
Arsenic	3.47259	1.0		3.35929	NR		3.32	20	
Barium	153.186	1.0		145.231	NR		5.33	20	
Beryllium	0.393540	1.0		0.383356	NR		2.62	20	
Cadmium	ND	1.0		ND	NR			20	
Chromium	25.8703	1.0		25.3072	NR		2.20	20	
Cobalt	10.5533	1.0		10.1968	NR		3.44	20	
Copper	37.2228	2.0		36.6515	NR		1.55	20	
Lead	5.68639	1.0		5.44407	NR		4.35	20	
Molybdenum	0.208552	1.0		0.207611	NR		0.452	20	
Nickel	30.2578	1.0		29.7890	NR		1.56	20	

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Rancho Cordova , CA 95742	Reported : 03/24/2014

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0389 - EPA 3050B (continued)									
Duplicate (B4C0389-DUP1) - Continued		**Source: 1400806-24**			Prepared: 3/19/2014 Analyzed: 3/20/2014				
Selenium	1.10977	1.0		0.996654	NR		10.7	20	
Silver	ND	1.0		ND	NR			20	
Thallium	ND	1.0		ND	NR			20	
Vanadium	42.0319	1.0		41.1122	NR		2.21	20	
Zinc	32.8803	1.0		32.1085	NR		2.38	20	
Matrix Spike (B4C0389-MS1)		**Source: 1400806-24**			Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	71.9060	2.0	125.000	ND	57.5	21 - 109			
Arsenic	97.6328	1.0	125.000	3.35929	75.4	55 - 102			
Barium	250.352	1.0	125.000	145.231	84.1	40 - 130			
Beryllium	101.774	1.0	125.000	0.383356	81.1	60 - 104			
Cadmium	92.1832	1.0	125.000	ND	73.7	52 - 100			
Chromium	129.386	1.0	125.000	25.3072	83.3	53 - 113			
Cobalt	109.859	1.0	125.000	10.1968	79.7	53 - 104			
Copper	151.744	2.0	125.000	36.6515	92.1	51 - 122			
Lead	96.7542	1.0	125.000	5.44407	73.0	51 - 106			
Molybdenum	93.9874	1.0	125.000	0.207611	75.0	55 - 103			
Nickel	131.464	1.0	125.000	29.7890	81.3	48 - 112			
Selenium	91.0380	1.0	125.000	0.996654	72.0	53 - 104			
Silver	105.257	1.0	125.000	ND	84.2	61 - 109			
Thallium	89.9947	1.0	125.000	ND	72.0	44 - 103			
Vanadium	146.208	1.0	125.000	41.1122	84.1	55 - 115			
Zinc	125.306	1.0	125.000	32.1085	74.6	24 - 130			
Matrix Spike Dup (B4C0389-MSD1)		**Source: 1400806-24**			Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	84.9967	2.0	125.000	ND	68.0	21 - 109	16.7	20	
Arsenic	101.154	1.0	125.000	3.35929	78.2	55 - 102	3.54	20	
Barium	245.348	1.0	125.000	145.231	80.1	40 - 130	2.02	20	
Beryllium	102.706	1.0	125.000	0.383356	81.9	60 - 104	0.912	20	
Cadmium	94.8987	1.0	125.000	ND	75.9	52 - 100	2.90	20	
Chromium	126.636	1.0	125.000	25.3072	81.1	53 - 113	2.15	20	
Cobalt	106.379	1.0	125.000	10.1968	76.9	53 - 104	3.22	20	
Copper	149.493	2.0	125.000	36.6515	90.3	51 - 122	1.49	20	
Lead	101.804	1.0	125.000	5.44407	77.1	51 - 106	5.09	20	
Molybdenum	101.255	1.0	125.000	0.207611	80.8	55 - 103	7.44	20	
Nickel	123.557	1.0	125.000	29.7890	75.0	48 - 112	6.20	20	
Selenium	94.3126	1.0	125.000	0.996654	74.7	53 - 104	3.53	20	
Silver	105.884	1.0	125.000	ND	84.7	61 - 109	0.594	20	
Thallium	92.9202	1.0	125.000	ND	74.3	44 - 103	3.20	20	
Vanadium	139.964	1.0	125.000	41.1122	79.1	55 - 115	4.36	20	
Zinc	125.494	1.0	125.000	32.1085	74.7	24 - 130	0.150	20	
Batch B4C0390 - EPA 3050B									
Blank (B4C0390-BLK1)					Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	ND	2.0			NR				
Arsenic	ND	1.0			NR				

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0390 - EPA 3050B (continued)									
Blank (B4C0390-BLK1) - Continued					Prepared: 3/19/2014 Analyzed: 3/20/2014				
Barium	ND	1.0			NR				
Beryllium	ND	1.0			NR				
Cadmium	ND	1.0			NR				
Chromium	ND	1.0			NR				
Cobalt	ND	1.0			NR				
Copper	ND	2.0			NR				
Lead	ND	1.0			NR				
Molybdenum	ND	1.0			NR				
Nickel	ND	1.0			NR				
Selenium	ND	1.0			NR				
Silver	ND	1.0			NR				
Thallium	ND	1.0			NR				
Vanadium	ND	1.0			NR				
Zinc	ND	1.0			NR				
LCS (B4C0390-BS1)					Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	46.4947	2.0	50.0000		93.0	80 - 120			
Arsenic	46.4371	1.0	50.0000		92.9	80 - 120			
Barium	47.7750	1.0	50.0000		95.5	80 - 120			
Beryllium	49.2094	1.0	50.0000		98.4	80 - 120			
Cadmium	47.9316	1.0	50.0000		95.9	80 - 120			
Chromium	50.1624	1.0	50.0000		100	80 - 120			
Cobalt	48.8861	1.0	50.0000		97.8	80 - 120			
Copper	49.4261	2.0	50.0000		98.9	80 - 120			
Lead	47.9107	1.0	50.0000		95.8	80 - 120			
Molybdenum	51.0050	1.0	50.0000		102	80 - 120			
Nickel	48.2426	1.0	50.0000		96.5	80 - 120			
Selenium	42.7865	1.0	50.0000		85.6	80 - 120			
Silver	46.4239	1.0	50.0000		92.8	80 - 120			
Thallium	47.9421	1.0	50.0000		95.9	80 - 120			
Vanadium	48.5977	1.0	50.0000		97.2	80 - 120			
Zinc	49.6843	1.0	50.0000		99.4	80 - 120			
Duplicate (B4C0390-DUP1)		**Source: 1400806-45**			Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	ND	2.0		ND	NR			20	
Arsenic	16.2799	1.0		11.6688	NR		33.0	20	R
Barium	103.498	1.0		106.803	NR		3.14	20	
Beryllium	0.306663	1.0		0.304804	NR		0.608	20	
Cadmium	0.036786	1.0		0.039021	NR		5.90	20	
Chromium	38.2161	1.0		38.3394	NR		0.322	20	
Cobalt	10.2818	1.0		9.59736	NR		6.89	20	
Copper	31.7999	2.0		32.8519	NR		3.25	20	
Lead	108.580	1.0		128.682	NR		16.9	20	
Molybdenum	0.355128	1.0		0.372339	NR		4.73	20	
Nickel	32.7084	1.0		32.8189	NR		0.337	20	
Selenium	1.48235	1.0		1.43501	NR		3.25	20	
Silver	ND	1.0		0.070817	NR			20	

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Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0390 - EPA 3050B (continued)									
Duplicate (B4C0390-DUP1) - Continued		**Source: 1400806-45**			Prepared: 3/19/2014 Analyzed: 3/20/2014				
Thallium	ND	1.0		ND	NR			20	
Vanadium	47.4830	1.0		47.3717	NR		0.235	20	
Zinc	74.6993	1.0		80.0516	NR		6.92	20	
Matrix Spike (B4C0390-MS1)		**Source: 1400806-45**			Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	73.3223	2.0	123.762	ND	59.2	21 - 109			
Arsenic	110.290	0.99	123.762	11.6688	79.7	55 - 102			
Barium	215.819	0.99	123.762	106.803	88.1	40 - 130			
Beryllium	103.299	0.99	123.762	0.304804	83.2	60 - 104			
Cadmium	94.8800	0.99	123.762	0.039021	76.6	52 - 100			
Chromium	143.866	0.99	123.762	38.3394	85.3	53 - 113			
Cobalt	111.122	0.99	123.762	9.59736	82.0	53 - 104			
Copper	145.802	2.0	123.762	32.8519	91.3	51 - 122			
Lead	239.689	0.99	123.762	128.682	89.7	51 - 106			
Molybdenum	97.1312	0.99	123.762	0.372339	78.2	55 - 103			
Nickel	137.779	0.99	123.762	32.8189	84.8	48 - 112			
Selenium	95.4485	0.99	123.762	1.43501	76.0	53 - 104			
Silver	105.404	0.99	123.762	0.070817	85.1	61 - 109			
Thallium	91.6279	0.99	123.762	ND	74.0	44 - 103			
Vanadium	152.944	0.99	123.762	47.3717	85.3	55 - 115			
Zinc	172.723	0.99	123.762	80.0516	74.9	24 - 130			
Matrix Spike Dup (B4C0390-MSD1)		**Source: 1400806-45**			Prepared: 3/19/2014 Analyzed: 3/20/2014				
Antimony	69.6649	2.0	123.762	ND	56.3	21 - 109	5.12	20	
Arsenic	95.2823	0.99	123.762	11.6688	67.6	55 - 102	14.6	20	
Barium	191.162	0.99	123.762	106.803	68.2	40 - 130	12.1	20	
Beryllium	93.2539	0.99	123.762	0.304804	75.1	60 - 104	10.2	20	
Cadmium	85.8246	0.99	123.762	0.039021	69.3	52 - 100	10.0	20	
Chromium	131.537	0.99	123.762	38.3394	75.3	53 - 113	8.95	20	
Cobalt	101.432	0.99	123.762	9.59736	74.2	53 - 104	9.12	20	
Copper	129.080	2.0	123.762	32.8519	77.8	51 - 122	12.2	20	
Lead	162.026	0.99	123.762	128.682	26.9	51 - 106	38.7	20	M1, R
Molybdenum	87.1861	0.99	123.762	0.372339	70.1	55 - 103	10.8	20	
Nickel	126.998	0.99	123.762	32.8189	76.1	48 - 112	8.14	20	
Selenium	84.6369	0.99	123.762	1.43501	67.2	53 - 104	12.0	20	
Silver	95.0008	0.99	123.762	0.070817	76.7	61 - 109	10.4	20	
Thallium	82.9968	0.99	123.762	ND	67.1	44 - 103	9.89	20	
Vanadium	134.791	0.99	123.762	47.3717	70.6	55 - 115	12.6	20	
Zinc	153.107	0.99	123.762	80.0516	59.0	24 - 130	12.0	20	
Batch S4C0232 - B4C0404									
Instrument Blank (S4C0232-IBL1)					Prepared: 3/20/2014 Analyzed: 3/20/2014				
Antimony	ND	2.0			NR				
Arsenic	ND	1.0			NR				
Barium	ND	1.0			NR				
Beryllium	ND	1.0			NR				

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch S4C0232 - B4C0404 (continued)									
Instrument Blank (S4C0232-IBL1) - Continued					Prepared: 3/20/2014 Analyzed: 3/20/2014				
Cadmium	ND	1.0			NR				
Chromium	ND	1.0			NR				
Cobalt	ND	1.0			NR				
Copper	ND	2.0			NR				
Lead	ND	1.0			NR				
Molybdenum	ND	1.0			NR				
Nickel	ND	1.0			NR				
Selenium	ND	1.0			NR				
Silver	ND	1.0			NR				
Thallium	ND	1.0			NR				
Vanadium	ND	1.0			NR				
Zinc	ND	1.0			NR				

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
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Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0406 - EPA 7471									
Blank (B4C0406-BLK1)					Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	ND	0.10			NR				
LCS (B4C0406-BS1)					Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	0.790244	0.10	0.833333		94.8	80 - 120			
Duplicate (B4C0406-DUP1)		**Source: 1400696-05**			Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	0.012624	0.10		0.009529	NR		27.9	20	R
Matrix Spike (B4C0406-MS1)		**Source: 1400696-05**			Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	0.837333	0.10	0.833333	0.009529	99.3	70 - 130			
Matrix Spike Dup (B4C0406-MSD1)		**Source: 1400696-05**			Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	0.954580	0.10	0.833333	0.009529	113	70 - 130	13.1	20	
Post Spike (B4C0406-PS1)		**Source: 1400696-05**			Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	0.005425		5.00000E-3	0.000114	106	85 - 115			
Batch B4C0407 - EPA 7471									
Blank (B4C0407-BLK1)					Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	ND	0.10			NR				
LCS (B4C0407-BS1)					Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	0.763383	0.10	0.833333		91.6	80 - 120			
Duplicate (B4C0407-DUP1)		**Source: 1400806-38**			Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	0.016504	0.10		0.016571	NR		0.402	20	
Matrix Spike (B4C0407-MS1)		**Source: 1400806-38**			Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	0.797005	0.10	0.833333	0.016571	93.7	70 - 130			
Matrix Spike Dup (B4C0407-MSD1)		**Source: 1400806-38**			Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	0.768980	0.10	0.833333	0.016571	90.3	70 - 130	3.58	20	
Post Spike (B4C0407-PS1)		**Source: 1400806-38**			Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	5.3708E-3		5.00000E-3	0.000199	103	85 - 115			
Batch B4C0408 - EPA 7471									
Blank (B4C0408-BLK1)					Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	ND	0.10			NR				
LCS (B4C0408-BS1)					Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	0.790938	0.10	0.833333		94.9	80 - 120			
Duplicate (B4C0408-DUP1)		**Source: 1400806-13**			Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	0.022855	0.10		0.010423	NR		74.7	20	R
Matrix Spike (B4C0408-MS1)		**Source: 1400806-13**			Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	0.857394	0.10	0.833333	0.010423	102	70 - 130			

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Project Number : Yuba HIP, S9805-01-23
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Reported : 03/24/2014

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0408 - EPA 7471 (continued)									
Matrix Spike (B4C0408-MS1) - Continued		**Source: 1400806-13**			Prepared: 3/20/2014 Analyzed: 3/21/2014				
Matrix Spike Dup (B4C0408-MSD1)		**Source: 1400806-13**			Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	0.874707	0.10	0.833333	0.010423	104	70 - 130	2.00	20	
Post Spike (B4C0408-PS1)		**Source: 1400806-13**			Prepared: 3/20/2014 Analyzed: 3/21/2014				
Mercury	0.005933		5.00000E-3	1.251E-4	116	85 - 115			M1
Batch S4C0248 - B4C0406									
Instrument Blank (S4C0248-IBL1)					Prepared: 3/21/2014 Analyzed: 3/21/2014				
Mercury	ND	0.10			NR				

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0321 - GCVOAS									
Blank (B4C0321-BLK1)					Prepared: 3/17/2014 Analyzed: 3/17/2014				
Gasoline Range Organics	ND	1.0			NR				
Surrogate: 4-Bromofluorobenzene	*0.2080*		*0.200000*		*104*	*48 - 137*			
LCS (B4C0321-BS1)					Prepared: 3/17/2014 Analyzed: 3/17/2014				
Gasoline Range Organics	4.78300	1.0	5.00000		95.7	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.2057*		*0.200000*		*103*	*48 - 137*			
Duplicate (B4C0321-DUP1)		**Source: 1400807-01**			Prepared: 3/17/2014 Analyzed: 3/17/2014				
Gasoline Range Organics	ND	1.0		ND	NR			20	
Surrogate: 4-Bromofluorobenzene	*0.1886*		*0.200000*		*94.3*	*48 - 137*			
Matrix Spike (B4C0321-MS1)		**Source: 1400791-01**			Prepared: 3/17/2014 Analyzed: 3/17/2014				
Gasoline Range Organics	4.23000	1.0	5.00000	ND	84.6	50 - 122			
Surrogate: 4-Bromofluorobenzene	*0.2109*		*0.200000*		*105*	*48 - 137*			
Matrix Spike (B4C0321-MS2)		**Source: 1400807-01**			Prepared: 3/17/2014 Analyzed: 3/17/2014				
Gasoline Range Organics	4.17800	1.0	5.00000	ND	83.6	50 - 122			
Surrogate: 4-Bromofluorobenzene	*0.2092*		*0.200000*		*105*	*48 - 137*			
Matrix Spike Dup (B4C0321-MSD1)		**Source: 1400791-01**			Prepared: 3/17/2014 Analyzed: 3/17/2014				
Gasoline Range Organics	4.13500	1.0	5.00000	ND	82.7	50 - 122	2.27	20	
Surrogate: 4-Bromofluorobenzene	*0.2092*		*0.200000*		*105*	*48 - 137*			
Matrix Spike Dup (B4C0321-MSD2)		**Source: 1400807-01**			Prepared: 3/17/2014 Analyzed: 3/17/2014				
Gasoline Range Organics	4.28300	1.0	5.00000	ND	85.7	50 - 122	2.48	20	
Surrogate: 4-Bromofluorobenzene	*0.1925*		*0.200000*		*96.3*	*48 - 137*			
Batch B4C0344 - GCVOAS									
Blank (B4C0344-BLK1)					Prepared: 3/18/2014 Analyzed: 3/18/2014				
Gasoline Range Organics	ND	1.0			NR				
Surrogate: 4-Bromofluorobenzene	*0.1948*		*0.200000*		*97.4*	*48 - 137*			
LCS (B4C0344-BS1)					Prepared: 3/18/2014 Analyzed: 3/18/2014				
Gasoline Range Organics	4.51100	1.0	5.00000		90.2	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.1883*		*0.200000*		*94.1*	*48 - 137*			
Duplicate (B4C0344-DUP1)		**Source: 1400806-36**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
Gasoline Range Organics	ND	1.0		ND	NR			20	
Surrogate: 4-Bromofluorobenzene	*0.1546*		*0.200000*		*77.3*	*48 - 137*			
Matrix Spike (B4C0344-MS1)		**Source: 1400806-36**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
Gasoline Range Organics	3.65800	1.0	5.00000	ND	73.2	50 - 122			
Surrogate: 4-Bromofluorobenzene	*0.1945*		*0.200000*		*97.3*	*48 - 137*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0344 - GCVOAS (continued)									
Matrix Spike Dup (B4C0344-MSD1)		**Source: 1400806-36**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
Gasoline Range Organics	4.05400	1.0	5.00000	ND	81.1	50 - 122	10.3	20	
Surrogate: 4-Bromofluorobenzene	*0.2079*		*0.200000*		*104*	*48 - 137*			
Batch B4C0396 - GCVOAW									
Blank (B4C0396-BLK1)					Prepared: 3/20/2014 Analyzed: 3/20/2014				
Gasoline Range Organics	ND	0.05			NR				
Surrogate: 4-Bromofluorobenzene	*0.08398*		*0.100000*		*84.0*	*70 - 130*			
LCS (B4C0396-BS1)					Prepared: 3/20/2014 Analyzed: 3/20/2014				
Gasoline Range Organics	1.13000	0.05	1.00000		113	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.1024*		*0.100000*		*102*	*70 - 130*			
LCS Dup (B4C0396-BSD1)					Prepared: 3/20/2014 Analyzed: 3/20/2014				
Gasoline Range Organics	1.14100	0.05	1.00000		114	70 - 130	0.969	20	
Surrogate: 4-Bromofluorobenzene	*0.09939*		*0.100000*		*99.4*	*70 - 130*			
Duplicate (B4C0396-DUP1)		**Source: 1400806-47**			Prepared: 3/20/2014 Analyzed: 3/20/2014				
Gasoline Range Organics	ND	0.05		ND	NR			20	
Surrogate: 4-Bromofluorobenzene	*0.09254*		*0.100000*		*92.5*	*70 - 130*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0326 - GCSEMI_DRO									
Blank (B4C0326-BLK1)					Prepared: 3/17/2014 Analyzed: 3/17/2014				
DRO	ND	0.05			NR				
ORO	ND	0.05			NR				
Surrogate: p-Terphenyl	*0.06631*		*8.00000E-2*		*82.9*	*30 - 142*			
LCS (B4C0326-BS1)					Prepared: 3/17/2014 Analyzed: 3/17/2014				
DRO	0.900600	0.05	1.00000		90.1	38 - 129			
Surrogate: p-Terphenyl	*0.06444*		*8.00000E-2*		*80.6*	*30 - 142*			
LCS Dup (B4C0326-BSD1)					Prepared: 3/17/2014 Analyzed: 3/17/2014				
DRO	0.903200	0.05	1.00000		90.3	38 - 129	0.288	20	
Surrogate: p-Terphenyl	*0.06434*		*8.00000E-2*		*80.4*	*30 - 142*			
Batch B4C0350 - GCSEMI_DRO_SOIL_LL									
Blank (B4C0350-BLK1)					Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	ND	1.0			NR				
ORO	ND	1.0			NR				
Surrogate: p-Terphenyl	*2.161*		*2.66667*		*81.0*	*26 - 145*			
LCS (B4C0350-BS1)					Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	26.8593	1.0	33.3333		80.6	28 - 138			
Surrogate: p-Terphenyl	*1.923*		*2.66667*		*72.1*	*26 - 145*			
Duplicate (B4C0350-DUP1)		**Source: 1400806-24**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	2.39533	1.0		2.29333	NR		4.35	20	
Surrogate: p-Terphenyl	*2.061*		*2.66667*		*77.3*	*26 - 145*			
Matrix Spike (B4C0350-MS1)		**Source: 1400806-24**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	24.7520	1.0	33.3333	2.29333	67.4	18 - 122			
Surrogate: p-Terphenyl	*2.126*		*2.66667*		*79.7*	*26 - 145*			
Matrix Spike Dup (B4C0350-MSD1)		**Source: 1400806-24**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	21.3287	1.0	33.3333	2.29333	57.1	18 - 122	14.9	20	
Surrogate: p-Terphenyl	*1.721*		*2.66667*		*64.5*	*26 - 145*			
Batch B4C0354 - GCSEMI_DRO_SOIL_LL									
Blank (B4C0354-BLK1)					Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	ND	1.0			NR				
ORO	ND	1.0			NR				
Surrogate: p-Terphenyl	*1.852*		*2.66667*		*69.4*	*26 - 145*			
LCS (B4C0354-BS1)					Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	28.4797	1.0	33.3333		85.4	28 - 138			
Surrogate: p-Terphenyl	*1.819*		*2.66667*		*68.2*	*26 - 145*			

Geocon Consultants, Inc.
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Project Number : Yuba HIP, S9805-01-23
Report To : John Juhrend
Reported : 03/24/2014

Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0354 - GCSEMI_DRO_SOIL_LL (continued)									
Duplicate (B4C0354-DUP1)		**Source: 1400806-42**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	2.71900	1.0		2.38667	NR		13.0	20	
Surrogate: p-Terphenyl	*2.168*		*2.66667*		*81.3*	*26 - 145*			
Matrix Spike (B4C0354-MS1)		**Source: 1400806-42**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	27.3297	1.0	33.3333	2.38667	74.8	18 - 122			
Surrogate: p-Terphenyl	*2.311*		*2.66667*		*86.7*	*26 - 145*			
Matrix Spike Dup (B4C0354-MSD1)		**Source: 1400806-42**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	29.2940	1.0	33.3333	2.38667	80.7	18 - 122	6.94	20	
Surrogate: p-Terphenyl	*1.891*		*2.66667*		*70.9*	*26 - 145*			
Batch B4C0365 - GCSEMI_DRO_SOIL_LL									
Blank (B4C0365-BLK1)					Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	ND	1.0			NR				
ORO	ND	1.0			NR				
Surrogate: p-Terphenyl	*1.887*		*2.66667*		*70.8*	*26 - 145*			
LCS (B4C0365-BS1)					Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	28.2803	1.0	33.3333		84.8	28 - 138			
Surrogate: p-Terphenyl	*1.804*		*2.66667*		*67.6*	*26 - 145*			
Duplicate (B4C0365-DUP1)		**Source: 1400807-01**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	1.95967	1.0		1.71367	NR		13.4	20	
Surrogate: p-Terphenyl	*2.023*		*2.66667*		*75.9*	*26 - 145*			
Matrix Spike (B4C0365-MS1)		**Source: 1400807-01**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	20.8117	1.0	33.3333	1.71367	57.3	18 - 122			
Surrogate: p-Terphenyl	*1.822*		*2.66667*		*68.3*	*26 - 145*			
Matrix Spike Dup (B4C0365-MSD1)		**Source: 1400807-01**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
DRO	20.0697	1.0	33.3333	1.71367	55.1	18 - 122	3.63	20	
Surrogate: p-Terphenyl	*1.587*		*2.66667*		*59.5*	*26 - 145*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/24/2014

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0322 - MSVOAS									
Blank (B4C0322-BLK1)					Prepared: 3/17/2014 Analyzed: 3/17/2014				
Benzene	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
MTBE	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
Toluene	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	*53.30*		*50.0000*		*107*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*49.75*		*50.0000*		*99.5*	*59 - 135*			
Surrogate: Dibromofluoromethane	*49.67*		*50.0000*		*99.3*	*71 - 150*			
Surrogate: Toluene-d8	*50.75*		*50.0000*		*102*	*77 - 129*			
LCS (B4C0322-BS1)					Prepared: 3/17/2014 Analyzed: 3/17/2014				
1,1-Dichloroethene	45.7100	5.0	50.0000		91.4	62 - 129			
Benzene	51.6800	5.0	50.0000		103	82 - 121			
Chlorobenzene	52.1900	5.0	50.0000		104	83 - 132			
MTBE	47.1200	5.0	50.0000		94.2	55 - 138			
Toluene	53.2500	5.0	50.0000		106	80 - 129			
Trichloroethene	52.9200	5.0	50.0000		106	75 - 133			
Surrogate: 1,2-Dichloroethane-d4	*47.55*		*50.0000*		*95.1*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*50.28*		*50.0000*		*101*	*59 - 135*			
Surrogate: Dibromofluoromethane	*48.94*		*50.0000*		*97.9*	*71 - 150*			
Surrogate: Toluene-d8	*50.32*		*50.0000*		*101*	*77 - 129*			
LCS Dup (B4C0322-BSD1)					Prepared: 3/17/2014 Analyzed: 3/17/2014				
1,1-Dichloroethene	44.1000	5.0	50.0000		88.2	62 - 129	3.59	20	
Benzene	49.4400	5.0	50.0000		98.9	82 - 121	4.43	20	
Chlorobenzene	50.7300	5.0	50.0000		101	83 - 132	2.84	20	
MTBE	44.9500	5.0	50.0000		89.9	55 - 138	4.71	20	
Toluene	50.9900	5.0	50.0000		102	80 - 129	4.34	20	
Trichloroethene	49.6500	5.0	50.0000		99.3	75 - 133	6.38	20	
Surrogate: 1,2-Dichloroethane-d4	*47.87*		*50.0000*		*95.7*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*50.69*		*50.0000*		*101*	*59 - 135*			
Surrogate: Dibromofluoromethane	*48.96*		*50.0000*		*97.9*	*71 - 150*			
Surrogate: Toluene-d8	*51.14*		*50.0000*		*102*	*77 - 129*			
Duplicate (B4C0322-DUP1)		**Source: 1400807-01**			Prepared: 3/17/2014 Analyzed: 3/17/2014				
1,1-Dichloroethene	ND	5.0		ND	NR			20	
Benzene	ND	5.0		ND	NR			20	
Chlorobenzene	ND	5.0		ND	NR			20	
MTBE	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
Trichloroethene	ND	5.0		ND	NR			20	
Surrogate: 1,2-Dichloroethane-d4	*60.24*		*50.0000*		*120*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*47.98*		*50.0000*		*96.0*	*59 - 135*			
Surrogate: Dibromofluoromethane	*54.41*		*50.0000*		*109*	*71 - 150*			
Surrogate: Toluene-d8	*51.37*		*50.0000*		*103*	*77 - 129*			

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3160 Gold Valley Drive, Suite 800
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Project Number : Yuba HIP, S9805-01-23
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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0322 - MSVOAS (continued)									
Matrix Spike (B4C0322-MS1)		**Source: 1400807-01**			Prepared: 3/17/2014 Analyzed: 3/17/2014				
1,1-Dichloroethene	49.7500	5.0	50.0000	ND	99.5	51 - 125			
Benzene	52.1400	5.0	50.0000	ND	104	61 - 123			
Chlorobenzene	50.7800	5.0	50.0000	ND	102	46 - 140			
MTBE	53.4900	5.0	50.0000	ND	107	45 - 135			
Toluene	52.8500	5.0	50.0000	ND	106	45 - 140			
Trichloroethene	52.5000	5.0	50.0000	ND	105	50 - 146			
Surrogate: 1,2-Dichloroethane-d4	*57.42*		*50.0000*		*115*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*49.51*		*50.0000*		*99.0*	*59 - 135*			
Surrogate: Dibromofluoromethane	*54.63*		*50.0000*		*109*	*71 - 150*			
Surrogate: Toluene-d8	*51.31*		*50.0000*		*103*	*77 - 129*			
Matrix Spike Dup (B4C0322-MSD1)		**Source: 1400807-01**			Prepared: 3/17/2014 Analyzed: 3/17/2014				
1,1-Dichloroethene	50.1200	5.0	50.0000	ND	100	51 - 125	0.741	20	
Benzene	50.8400	5.0	50.0000	ND	102	61 - 123	2.52	20	
Chlorobenzene	49.6100	5.0	50.0000	ND	99.2	46 - 140	2.33	20	
MTBE	51.0800	5.0	50.0000	ND	102	45 - 135	4.61	20	
Toluene	52.4100	5.0	50.0000	ND	105	45 - 140	0.836	20	
Trichloroethene	51.8000	5.0	50.0000	ND	104	50 - 146	1.34	20	
Surrogate: 1,2-Dichloroethane-d4	*58.01*		*50.0000*		*116*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*50.94*		*50.0000*		*102*	*59 - 135*			
Surrogate: Dibromofluoromethane	*56.57*		*50.0000*		*113*	*71 - 150*			
Surrogate: Toluene-d8	*53.22*		*50.0000*		*106*	*77 - 129*			
Batch B4C0343 - MSVOAS									
Blank (B4C0343-BLK1)					Prepared: 3/18/2014 Analyzed: 3/18/2014				
Benzene	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
MTBE	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
Toluene	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	*61.34*		*50.0000*		*123*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*49.32*		*50.0000*		*98.6*	*59 - 135*			
Surrogate: Dibromofluoromethane	*56.83*		*50.0000*		*114*	*71 - 150*			
Surrogate: Toluene-d8	*51.32*		*50.0000*		*103*	*77 - 129*			
LCS (B4C0343-BS1)					Prepared: 3/18/2014 Analyzed: 3/18/2014				
1,1-Dichloroethene	50.7200	5.0	50.0000		101	62 - 129			
Benzene	53.2300	5.0	50.0000		106	82 - 121			
Chlorobenzene	53.3400	5.0	50.0000		107	83 - 132			
MTBE	51.6900	5.0	50.0000		103	55 - 138			
Toluene	53.7200	5.0	50.0000		107	80 - 129			
Trichloroethene	53.3600	5.0	50.0000		107	75 - 133			
Surrogate: 1,2-Dichloroethane-d4	*54.51*		*50.0000*		*109*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*51.08*		*50.0000*		*102*	*59 - 135*			
Surrogate: Dibromofluoromethane	*54.67*		*50.0000*		*109*	*71 - 150*			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0343 - MSVOAS (continued)									
LCS (B4C0343-BS1) - Continued					Prepared: 3/18/2014 Analyzed: 3/18/2014				
Surrogate: Toluene-d8	*52.18*		*50.0000*		*104*	*77 - 129*			
Duplicate (B4C0343-DUP1)		**Source: 1400806-26**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
1,1-Dichloroethene	ND	5.0		ND	NR			20	
Benzene	ND	5.0		ND	NR			20	
Chlorobenzene	ND	5.0		ND	NR			20	
MTBE	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
Trichloroethene	ND	5.0		ND	NR			20	
Surrogate: 1,2-Dichloroethane-d4	*55.54*		*50.0000*		*111*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*46.24*		*50.0000*		*92.5*	*59 - 135*			
Surrogate: Dibromofluoromethane	*54.42*		*50.0000*		*109*	*71 - 150*			
Surrogate: Toluene-d8	*51.30*		*50.0000*		*103*	*77 - 129*			
Matrix Spike (B4C0343-MS1)		**Source: 1400806-26**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
1,1-Dichloroethene	48.8900	5.0	50.0000	ND	97.8	51 - 125			
Benzene	50.6300	5.0	50.0000	ND	101	61 - 123			
Chlorobenzene	50.6400	5.0	50.0000	ND	101	46 - 140			
MTBE	52.1600	5.0	50.0000	ND	104	45 - 135			
Toluene	51.6400	5.0	50.0000	ND	103	45 - 140			
Trichloroethene	50.8100	5.0	50.0000	ND	102	50 - 146			
Surrogate: 1,2-Dichloroethane-d4	*55.16*		*50.0000*		*110*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*51.54*		*50.0000*		*103*	*59 - 135*			
Surrogate: Dibromofluoromethane	*55.07*		*50.0000*		*110*	*71 - 150*			
Surrogate: Toluene-d8	*52.01*		*50.0000*		*104*	*77 - 129*			
Matrix Spike Dup (B4C0343-MSD1)		**Source: 1400806-26**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
1,1-Dichloroethene	46.7300	5.0	50.0000	ND	93.5	51 - 125	4.52	20	
Benzene	49.2400	5.0	50.0000	ND	98.5	61 - 123	2.78	20	
Chlorobenzene	49.6000	5.0	50.0000	ND	99.2	46 - 140	2.08	20	
MTBE	51.2000	5.0	50.0000	ND	102	45 - 135	1.86	20	
Toluene	51.2500	5.0	50.0000	ND	102	45 - 140	0.758	20	
Trichloroethene	50.6000	5.0	50.0000	ND	101	50 - 146	0.414	20	
Surrogate: 1,2-Dichloroethane-d4	*56.14*		*50.0000*		*112*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*50.64*		*50.0000*		*101*	*59 - 135*			
Surrogate: Dibromofluoromethane	*54.73*		*50.0000*		*109*	*71 - 150*			
Surrogate: Toluene-d8	*52.76*		*50.0000*		*106*	*77 - 129*			
Batch B4C0363 - MSVOAS									
Blank (B4C0363-BLK1)					Prepared: 3/18/2014 Analyzed: 3/18/2014				
Benzene	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
MTBE	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
Toluene	ND	5.0			NR				

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0363 - MSVOAS (continued)									
Blank (B4C0363-BLK1) - Continued					Prepared: 3/18/2014 Analyzed: 3/18/2014				
Surrogate: 1,2-Dichloroethane-d4	*58.61*		*50.0000*		*117*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*47.67*		*50.0000*		*95.3*	*59 - 135*			
Surrogate: Dibromofluoromethane	*57.04*		*50.0000*		*114*	*71 - 150*			
Surrogate: Toluene-d8	*51.71*		*50.0000*		*103*	*77 - 129*			
LCS (B4C0363-BS1)					Prepared: 3/18/2014 Analyzed: 3/18/2014				
1,1-Dichloroethene	55.7100	5.0	50.0000		111	62 - 129			
Benzene	56.1200	5.0	50.0000		112	82 - 121			
Chlorobenzene	54.0100	5.0	50.0000		108	83 - 132			
MTBE	52.9000	5.0	50.0000		106	55 - 138			
Toluene	55.9000	5.0	50.0000		112	80 - 129			
Trichloroethene	55.8300	5.0	50.0000		112	75 - 133			
Surrogate: 1,2-Dichloroethane-d4	*55.43*		*50.0000*		*111*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*50.87*		*50.0000*		*102*	*59 - 135*			
Surrogate: Dibromofluoromethane	*57.05*		*50.0000*		*114*	*71 - 150*			
Surrogate: Toluene-d8	*53.16*		*50.0000*		*106*	*77 - 129*			
Duplicate (B4C0363-DUP1)		**Source: 1400806-24**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
1,1-Dichloroethene	ND	5.0		ND	NR			20	
Benzene	ND	5.0		ND	NR			20	
Chlorobenzene	ND	5.0		ND	NR			20	
MTBE	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
Trichloroethene	ND	5.0		ND	NR			20	
Surrogate: 1,2-Dichloroethane-d4	*60.33*		*50.0000*		*121*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*47.87*		*50.0000*		*95.7*	*59 - 135*			
Surrogate: Dibromofluoromethane	*57.76*		*50.0000*		*116*	*71 - 150*			
Surrogate: Toluene-d8	*53.03*		*50.0000*		*106*	*77 - 129*			
Matrix Spike (B4C0363-MS1)		**Source: 1400806-24**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
1,1-Dichloroethene	51.1400	5.0	50.0000	ND	102	51 - 125			
Benzene	50.8200	5.0	50.0000	ND	102	61 - 123			
Chlorobenzene	49.8800	5.0	50.0000	ND	99.8	46 - 140			
MTBE	49.6400	5.0	50.0000	ND	99.3	45 - 135			
Toluene	53.4700	5.0	50.0000	ND	107	45 - 140			
Trichloroethene	50.1600	5.0	50.0000	ND	100	50 - 146			
Surrogate: 1,2-Dichloroethane-d4	*57.94*		*50.0000*		*116*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*50.77*		*50.0000*		*102*	*59 - 135*			
Surrogate: Dibromofluoromethane	*56.47*		*50.0000*		*113*	*71 - 150*			
Surrogate: Toluene-d8	*54.16*		*50.0000*		*108*	*77 - 129*			
Matrix Spike Dup (B4C0363-MSD1)		**Source: 1400806-24**			Prepared: 3/18/2014 Analyzed: 3/18/2014				
1,1-Dichloroethene	50.3100	5.0	50.0000	ND	101	51 - 125	1.64	20	
Benzene	49.5100	5.0	50.0000	ND	99.0	61 - 123	2.61	20	
Chlorobenzene	48.7200	5.0	50.0000	ND	97.4	46 - 140	2.35	20	
MTBE	48.4400	5.0	50.0000	ND	96.9	45 - 135	2.45	20	
Toluene	51.5300	5.0	50.0000	ND	103	45 - 140	3.70	20	

Certificate of Analysis

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0363 - MSVOAS (continued)									
Matrix Spike Dup (B4C0363-MSD1) - Continued			**Source: 1400806-24**		Prepared: 3/18/2014 Analyzed: 3/18/2014				
Trichloroethene	48.8200	5.0	50.0000	ND	97.6	50 - 146	2.71	20	
Surrogate: 1,2-Dichloroethane-d4	*57.05*		*50.0000*		*114*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*50.44*		*50.0000*		*101*	*59 - 135*			
Surrogate: Dibromofluoromethane	*54.71*		*50.0000*		*109*	*71 - 150*			
Surrogate: Toluene-d8	*52.06*		*50.0000*		*104*	*77 - 129*			

Certificate of Analysis

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Notes and Definitions

S7	Surrogate recovery was outside of laboratory acceptance limit. Chromatogram shows high concentration of heavy hydrocarbons.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
F1	Sample contains hydrocarbons within the diesel range that do not match the diesel pattern. Quantitation was based on a diesel standard.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES
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CHAIN OF CUSTODY RECORD

Page 1 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐Client ☐ATL	1. CHILLED	☒	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐FedEx ☒OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C: 5.2, 5.4		
☐Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Geocon Consultants	Address: 3160 Gold Valley Drive Suite #800		Tel: (916) 852-9118
	City: Rancho Cordova	State: CA Zip: 95742	Fax: (916) 852-9132

SEND REPORT TO:		SEND INVOICE TO: ☐same as SEND REPORT TO	
Attn: John Juhrend	Email: juhrend@geoconinc.com	Attn: Same	Email:
Company: Geocon Consultants		Company:	
Address: 3160 Gold Valley Drive Suite #800		Address:	
City: Rancho Cordova	State: CA Zip: 95742	City:	State: Zip:

PROJECT SAMPLES

Project Name: ~~Yuba and Colusa~~ HIP (312)
Project No.: S9805-01-23
Sampler: Josh Ewert
Quote #:
PO #:
Special Instructions/Comments: Billing per Caltrans contract #03A2132

ITEM	Lab No.	Sample ID / Location	Date	Time
1	1400806 - 1	20/F-NE-3.5	3/12/14	0903
2	- 2	20/F-NE-7.5		0927
3	- 3	20/F-NE-9.5		0935
4	- 4	20/F-NW-3.5		1019
5	- 5	20/F-NW-6.5		1029
6	- 6	20/F-NW-8.5		1042
7	- 7	20/G-NE-3.5		1108
8	- 8	20/G-NE-6.5		1119
9	- 9	20/G-NE-8.5		1125
10	- 10	20/G-NW-3.5		1157

Encircle or Write Requested Analysis: 6010 / 7000 (Title 22 Metals); 8015 (DRO); 8015 (GRO); 8081 (Organochlorine Pesticides); 8082 (PCBs); 8260 / 624 (Volatiles); 8270 (Semi-volatiles); Select Analysis; Enter Custom Analysis (×13)

Encircle Sample Matrix: Soil; Select Solid Matrix; Groundwater; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

TAT

Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7= Canister | Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

ITEM	TAT	#	Type	Material	Preservative	REMARKS
1		1	1	2	4	
2						
3						
4						
5						
6						
7						
8						
9						
10						

QA/QC: ☐Routine ☑Caltrans ☐Legal ☐RWQCB ☐Level IV

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As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Josh Ewert — Submitter Print Name — Signature

CUSTODY

	Date	Time		Date	Time
Relinquished by: (Signature and Printed Name) Josh Ewert	3/14/14	1530	Received by: (Signature and Printed Name) ONTRAC	3/14/14	1530
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name) FEDEX	3/15/14	0929
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only ATLCOC Ver:20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐Client ☐ATL ☐FedEx ☐OnTrac ☐GSO ☐Other:	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
	4. SEALED	☐	☐			

CUSTOMER

Company: Geocon Consultants
Address: 3160 Gold Valley Drive Suite #800
Tel: (916) 852-9118
City: Rancho Cordova State: CA Zip: 95742
Fax: (916) 852-9132

SEND REPORT TO:
Attn: John Juhrend Email: juhrend@geoconinc.com
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SEND INVOICE TO: ☐same as SEND REPORT TO
Attn: Same Email:
Company:
Address:
City: State: Zip:

PROJECT SAMPLES

Project Name: Yuba ~~and Colusa~~ HIP
Project No.: S9805-01-23
Sampler: Josh Ewert
Quote #:
PO #:
Special Instructions/Comments: Billing per Caltrans contract #03A2132

ITEM	Lab No.	Sample ID / Location	Date	Time	6010 / 7000 (Title 22 Metals)	8015 (DRO)	8015 (GRO)	8081 (Organochlorine Pesticides)	8082 (PCBs)	8260 / 624 (Volatiles)	8270 (Semi-volatiles)	Select Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Groundwater	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	Container #	Container Type	Container Material	Preservative	QA/QC	REMARKS
1	1400806 -11	20/G-NW-6.5	3/12/14	1206										X							1	1	2	4	☐Routine ☑Caltrans ☐Legal ☐RWQCB ☐Level IV	
2	-12	20/G-NW-8.5		1221																						
3	-13	20/H-NE-3.5		1249																						
4	-14	20/H-NE-5.5		1300																						
5	-15	20/H-NE-8.5		1308																						
6	-16	20/H-NW-3.5		1331																						
7	-17	20/H-NW-7.5		1343																						
8	-18	20/LEMON-NE-3.5		1407																						
9	-19	20/LEMON-NE-7.5		1414																						
10	-20	20/LEMON-NE-11.5		1423																						

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Josh Ewert
Submitter Print Name Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
JOSH EWERT	3/14/14	1530	CONTRAC	3/14/14	1530
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
			FEDEX	3/15/14	0929
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
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CHAIN OF CUSTODY RECORD

Page 3 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐Client ☐ATL ☐FedEx ☐OnTrac ☐GSO ☐Other:	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
	4. SEALED	☐	☐			

CUSTOMER

Company: Geocon Consultants	Address: 3160 Gold Valley Drive Suite #800		Tel: (916) 852-9118
	City: Rancho Cordova	State: CA Zip: 95742	Fax: (916) 852-9132

SEND REPORT TO:	SEND INVOICE TO: ☐same as SEND REPORT TO
Attn: John Juhrend Email: juhrend@geoconinc.com	Attn: Same Email:
Company: Geocon Consultants	Company:
Address: 3160 Gold Valley Drive Suite #800	Address:
City: Rancho Cordova State: CA Zip: 95742	City: State: Zip:

PROJECT SAMPLES

Project Name: Yuba ~~and Colusa~~ HIP
Project No.: S9805-01-23
Sampler: Josh Ewert
Quote #:
PO #:
Special Instructions/Comments: Billing per Caltrans contract #03A2132

ITEM	Lab No.	Sample ID / Location	Date	Time	6010 / 7000 (Title 22 Metals)	8015 (DRO)	8015 (GRO)	8081 (Organochlorine Pesticides)	8082 (PCBs)	8260 / 624 (Volatiles)	8270 (Semi-volatiles)	Select Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Groundwater	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	Container #	Container Type	Container Material	Preservative	QA/QC	REMARKS
1	1403506-21	20/H-SW-3.5	3/13/14	0823										X							1	1	2	4		
2	-22	20/H-SW-6.5		0847																						
3	-23	20/H-SW-7.5		0856																						
4	-24	20/H-SE-3.5		0921																						
5	-25	20/H-SE-5.5		0929																						
6	-26	20/H-SE-7.5		0934																						
7	-27	20/H-SE-9.5		0949																						
8	-28	20/A-SE-11.5		0954																						
9	-29	20/G-SW-1.0		1033																						
10	-30	20/G-SW-~~7.5~~ 7.5		1037																						

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Josh Ewert — Submitter Print Name — Signature

CUSTODY

	Date	Time		Date	Time
Relinquished by: (Signature and Printed Name) Josh Ewert	3/14/14	1530	Received by: (Signature and Printed Name) GNTRAC	3/14/14	1530
Relinquished by: (Signature and Printed Name)			Received by: (Signature and Printed Name) FEDEX	3/15/14	0929
Relinquished by: (Signature and Printed Name)			Received by: (Signature and Printed Name)		

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐Client ☐ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐FedEx ☐OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Geocon Consultants	Address: 3160 Gold Valley Drive Suite #800			Tel: (916) 852-9118	
	City: Rancho Cordova	State: CA	Zip: 95742	Fax: (916) 852-9132	

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Company: Geocon Consultants		Company:	
Address: 3160 Gold Valley Drive Suite #800		Address:	
City: Rancho Cordova	State: CA Zip: 95742	City:	State: Zip:

PROJECT SAMPLES

Project Name: Yuba ~~and Colusa~~ (356) HIP
Project No.: S9805-01-23
Sampler: Josh Ewert
Quote #:
PO #:
Special Instructions/Comments: Billing per Caltrans contract #03A2132

ITEM	Lab No.	Sample ID / Location	Date	Time	6010 / 7000 (Title 22 Metals)	8015 (DRO)	8015 (GRO)	8081 (Organochlorine Pesticides)	8082 (PCBs)	8260 / 624 (Volatiles)	8270 (Semi-volatiles)	Select Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Groundwater	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1406906 - 31	20/G-SW-11.5	3/13/14	1042																			X							1	1	2	4	
2	- 32	70/F-SW-3.5		1106																														
3	- 33	20/F-SW-7.5		1111																														
4	- 34	20/F-SW-11.5		1124																														
5	- 35	20/F-SE-1.5		1158																														
6	- 36	20/F-SE-6.5		1206																														
7	- 37	20/F-SE-8.5		1206																														
8	- 38	70/5-NW-3.5		1240																														
9	- 39	70/5-NW-5.5		1248																														
10	- 40	70/5-NW-7.5		1255																														

QA/QC: ☐Routine ☑Caltrans ☐Legal ☐RWQCB ☐Level IV

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Relinquished by: (Signature and Printed Name) Josh Ewert	3/14/14	1530	Received by: (Signature and Printed Name) ONTRAC	3/14/14	1530
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name) FEDEX 2	3/15/14	0929
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CHAIN OF CUSTODY RECORD

Page 5 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐Client ☐ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐FedEx ☐OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐Other:	4. SEALED	☐	☐			

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PROJECT SAMPLES

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Project No.: S9805-01-23
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PO #:
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Encircle Sample Matrix: Soil; Select Solid Matrix; Groundwater; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix
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Container: # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister ; Material: 1=Glass; 2=Plastic; 3=Metal ; Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3
QA/QC: ☐Routine ☑Caltrans ☐Legal ☐RWQCB ☐Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	Soil	Groundwater	TAT	#	Type	Material	Preservative	REMARKS
1	1400806-41	70/5-NW-10.5	3/13/14	1303	X			1	1	2	4	
2	-42	70/5-NW-11.5		1308								
3	-43	70/4-SW-7.5		1425								
4	-44	70/4-SW-11.5		1427								
5	-45	70/4-SE-3.5		1515								
6	-46	70/4-SE-7.5		1520								
7	-47	70/4-SE-GW		1543		X		2	3	1	4	
8		70/4-SE-GW		1543		X		3	2	1	4/1	
9	-48	70/5-NE-3.5	3/14/14	1317				1	1	2	4	
10	-49	70/5-NE-6.0		1324								

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   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
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Josh Ewert (Submitter Print Name) — (Signature)

CUSTODY

	Date	Time		Date	Time
Relinquished by: (Signature and Printed Name) Josh Ewert	3/14/14	1530	Received by: (Signature and Printed Name) ONTRAC	3/14/14	1530
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name) FEDEX	3/15/14	0929
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 6 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐Client ☐ATL ☐FedEx ☐OnTrac ☐GSO ☐Other:	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
	4. SEALED	☐	☐			

CUSTOMER

Company: Geocon Consultants	Address: 3160 Gold Valley Drive Suite #800		Tel: (916) 852-9118
	City: Rancho Cordova	State: CA Zip: 95742	Fax: (916) 852-9132

SEND REPORT TO:

Attn: John Juhrend — Email: juhrend@geoconinc.com

Company: Geocon Consultants

Address: 3160 Gold Valley Drive Suite #800

City: Rancho Cordova — State: CA — Zip: 95742

SEND INVOICE TO: ☐same as SEND REPORT TO

Attn: Same — Email:

Company:

Address:

City: — State: — Zip:

PROJECT SAMPLES

Project Name: ~~Yuba and Colusa~~ HIP

Project No.: S9805-01-23

Sampler: Josh Ewert

Quote #:

PO #:

Special Instructions/Comments: Billing per Caltrans contract #03A2132

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	6010 / 7000 (Title 22 Metals)	8015 (DRO)	8015 (GRO)	8081 (Organochlorine Pesticides)	8082 (PCBs)	8260 / 624 (Volatiles)	8270 (Semi-volatiles)	Select Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Groundwater	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1400805 - 50	70/5-NE-7.5	3/14/14	1320																			X							1	1	2	4	
2	1 - 51	70/5-NE-11.5		1330																			X							↓	↓	↓	↓	
3																																		
4																																		
5																																		
6																																		
7																																		
8																																		
9																																		
10																																		

Encircle or Write Requested Analysis — Encircle Sample Matrix

QA/QC: ☐Routine ☑Caltrans ☐Legal ☐RWQCB ☐Level IV

TERMS

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Josh Ewert — Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name) Josh Ewert	Date: 3/14/14	Time: 1530	Received by: (Signature and Printed Name) GNTRK	Date: 3/14/14	Time: 1530
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name) FEDEX	Date: 3/15/14	Time: 0929
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
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CHAIN OF CUSTODY RECORD

Page 1 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

Method of Transport: ☐Client ☐ATL ☐FedEx ☐OnTrac ☐GSO ☐Other:

Sample Conditions Upon Receipt					
Condition	Y	N	Condition	Y	N
1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
4. SEALED	☐	☐			

CUSTOMER

Company: Geocon Consultants | Address: 3160 Gold Valley Drive Suite #800 | Tel: (916) 852-9118
City: Rancho Cordova | State: CA | Zip: 95742 | Fax: (916) 852-9132

SEND REPORT TO:
Attn: John Juhrend | Email: juhrend@geoconinc.com
Company: Geocon Consultants
Address: 3160 Gold Valley Drive Suite #800
City: Rancho Cordova | State: CA | Zip: 95742

SEND INVOICE TO: ☐same as SEND REPORT TO
Attn: Same | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: Yuba and ~~Colusa~~ HIP
Project No.: S9805-01-23
Sampler: Josh Ewert
Quote #:
PO #:
Special Instructions/Comments: Billing per Caltrans contract #03A2132

Encircle or Write Requested Analysis: 6010 / 7000 (Title 22 Metals); 8015 (DRO)/GRO; 8015 (GRO); 8081 (Organochlorine Pesticides); 8082 (PCBs); 8260 / 624 (Volatiles); 8270 (Semi-volatiles); Select Analysis; ~~Enter Custom Analysis~~ Gas Package; Enter Custom Analysis ×10

Encircle Sample Matrix: Soil; Select Solid Matrix; Groundwater; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

Container: TAT; #; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister; Material: 1=Glass; 2=Plastic; 3=Metal; Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐Routine ☑Caltrans ☐Legal ☐RWQCB ☐Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	6010/7000	8015 (DRO)/GRO	8015 (GRO)	8081	8082	8260/624	8270	Select Analysis	Gas Package	Soil	TAT	#	Type	Material	Preservative	REMARKS
1	1400806 -1	20/F-NE-3.5	3/12/14	0903	X	X							X	X	5	1	1	2	4	
2	-2	20/F-NE-7.5		0927																Hold
3	-3	20/F-NE-9.5		0935																Hold
4	-4	20/F-NW-3.5		1019	X	X														
5	-5	20/F-NW-6.5		1029																Hold
6	-6	20/F-NW-8.5		1042																Hold
7	-7	20/G-NE-3.5		1108	X	X														
8	-8	20/G-NE-6.5		1119																Hold
9	-9	20/G-NE-8.5		1125																Hold
10	-10	20/G-NW-3.5	↓	1157	X	X							X	↓	↓	↓	↓	↓	↓	

TERMS

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Josh Ewert — Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
JOSH EWERT	3/14/14	1530	ONTRAC	3/14/14	1536
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

Method of Transport	Sample Conditions Upon Receipt					
☐Client ☐ATL ☐FedEx ☐OnTrac ☐GSO ☐Other:	Condition	Y	N	Condition	Y	N
	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
	4. SEALED	☐	☐			

CUSTOMER

Company: Geocon Consultants	Address: 3160 Gold Valley Drive Suite #800			Tel: (916) 852-9118	
	City: Rancho Cordova	State: CA	Zip: 95742	Fax: (916) 852-9132	

SEND REPORT TO:		SEND INVOICE TO: ☐same as SEND REPORT TO	
Attn: John Juhrend	Email: juhrend@geoconinc.com	Attn: Same	Email:
Company: Geocon Consultants		Company:	
Address: 3160 Gold Valley Drive Suite #800		Address:	
City: Rancho Cordova	State: CA Zip: 95742	City:	State: Zip:

PROJECT SAMPLES

Project Name: Yuba ~~and Colusa~~ HIP (32)
Project No.: S9805-01-23
Sampler: Josh Ewert
Quote #:
PO #:
Special Instructions/Comments: Billing per Caltrans contract #03A2132

Encircle or Write Requested Analysis — Encircle Sample Matrix — Container — QA/QC

ITEM	Lab No.	Sample ID / Location	Date	Time	6010 / 7000 (Title 22 Metals)	8015 (DRO)	8015 (GRO)	8081 (Organochlorine Pesticides)	8082 (PCBs)	8260 / 624 (Volatiles)	8270 (Semi-volatiles)	Select Analysis	Enter Custom Analysis GNS Perchlorate	Soil	Select Solid Matrix	Groundwater	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	#	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1400805-11	20/G-NW-6.5	3/12/14	1206										X						5	1	2	2	4	Hold
2	-12	20/G-NW-8.5		1221																					Hold
3	-13	20/H-NE-3.5		1244	X	X																			
4	-14	20/H-NE-5.5		1300																					Hold
5	-15	20/H-NE-8.5		1308																					Hold
6	-16	20/H-NW-3.5		1331	X	X							X												
7	-17	20/H-NW-7.5		1343																					Hold
8	-18	20/LEMON-NE-3.5		1407	X	X																			
9	-19	20/LEMON-NE-7.5		1414																					Hold
10	-20	20/LEMON-NE-11.5		1423																					Hold

TERMS

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Josh Ewert — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
JOSH EWERT	3/14/14	1530	GSW-TRAC	3/14/14	1530
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

Method of Transport		Sample Conditions Upon Receipt					
		Condition	Y	N	Condition	Y	N
☐Client	☐ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐FedEx	☐OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐GSO		3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐Other:		4. SEALED	☐	☐			

CUSTOMER

Company: Geocon Consultants		Address: 3160 Gold Valley Drive Suite #800			Tel: (916) 852-9118
		City: Rancho Cordova	State: CA	Zip: 95742	Fax: (916) 852-9132

SEND REPORT TO:		SEND INVOICE TO: ☐same as SEND REPORT TO
Attn: John Juhrend	Email: juhrend@geoconinc.com	Attn: Same Email:
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PROJECT SAMPLES

Project Name: Yuba ~~and Colusa~~ HIP
Project No.: S9805-01-23
Sampler: Josh Ewert
Quote #:
PO #:
Special Instructions/Comments: Billing per Caltrans contract #03A2132

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	6010 / 7000 (Title 22 Metals)	8015 (DRO) / CARC	8015 (GRO)	8081 (Organochlorine Pesticides)	8082 (PCBs)	8260 / 624 (Volatiles)	8270 (Semi-volatiles)	Select Analysis	Enter Custom Analysis: GAS PCARC	Soil	Select Solid Matrix	Groundwater	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	Container #:	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Fedar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1400805 -21	20/H-SW-3.5	3/13/14	0923	X	X							X	X						5	1	1	2	4	
2	-22	20/H-SW-6.5		0947																					Hold
3	-23	20/H-SW-7.5		0956																					Hold
4	-24	20/H-SE-3.5		0921	X	X							X												
5	-25	20/H-SE-5.5		0929																					Hold
6	-26	20/H-SE-7.5		0934	X	X							X												
7	-27	20/H-SE-9.5		0949																					Hold
8	-28	20/A-SE-11.5		0954	X	X							X												
9	-29	20/G-SW-1.0		1033		X																			Hold
10	-30	20/G-SW-~~1.0~~ 7.5	↓	1037	X	X							X	↓						↓	↓	↓	↓	↓	

TERMS

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Signature

CUSTODY

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Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
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CHAIN OF CUSTODY RECORD

Page 4 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only ATLCOC Ver:20130715

Method of Transport			Sample Conditions Upon Receipt					
			Condition	Y	N	Condition	Y	N
☐Client	☐ATL		1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐FedEx	☐OnTrac		2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐GSO			3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐Other:			4. SEALED	☐	☐			

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PROJECT SAMPLES

Project Name: Yuba ~~and Sutter~~ (YSE) HIP
Project No.: S9805-01-23
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PO #:
Special Instructions/Comments: Billing per Caltrans contract #03A2132

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	6010 / 7000 (Title 22 Metals)	8015 (DRO) / 6020	8015 (GRO)	8081 (Organochlorine Pesticides)	8082 (PCBs)	8260 / 624 (Volatiles)	8270 (Semi-volatiles)	Select Analysis	Enter Custom Analysis: ~~Enter Custom Analysis~~ GRS FX (ATL)	Soil	Select Solid Matrix	Groundwater	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	Container #: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	QA/QC: ☐Routine ☑Caltrans ☐Legal ☐RWQCB ☐Level IV — REMARKS
1	1400806 - 31	20/G-SW-11.5	3/13/14	1042										X						5	1	1	2	4	Hold
2	-32	70/F-SW-3.5		1106	X	X																			
3	-33	20/F-SW-7.5		1111																					Hold
4	-34	20/F-SW-11.5		1124																					Hold
5	-35	20/F-SE-1.5		1158		X																			
6	-36	20/F-SE-6.5		1206	X	X							X												
7	-37	20/F-SE-8.5		1206																					Hold
8	-38	70/5-NW-3.5		1240	X	X							X												
9	-39	70/5-NW-5.5		1248																					Hold
10	-40	70/5-NW-7.5		1255	X	X							X												

TERMS

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   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
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7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
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   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Josh Ewert — Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Josh Ewert	3/14/14	1530	GNTLAB	3/14/14	1530
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 5 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐Client ☐ATL ☐FedEx ☐OnTrac ☐GSO ☐Other:	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
	4. SEALED	☐	☐			

CUSTOMER

Company: Geocon Consultants	Address: 3160 Gold Valley Drive Suite #800		Tel: (916) 852-9118
	City: Rancho Cordova	State: CA Zip: 95742	Fax: (916) 852-9132

SEND REPORT TO:	SEND INVOICE TO: ☐same as SEND REPORT TO
Attn: John Juhrend Email: juhrend@geoconinc.com	Attn: Same Email:
Company: Geocon Consultants	Company:
Address: 3160 Gold Valley Drive Suite #800	Address:
City: Rancho Cordova State: CA Zip: 95742	City: State: Zip:

PROJECT SAMPLES

Project Name: ~~SHP~~ Yuba ~~and Colusa~~ HIP
Project No.: S9805-01-23
Sampler: Josh Ewert
Quote #:
PO #:
Special Instructions/Comments: Billing per Caltrans contract #03A2132

Encircle or Write Requested Analysis: 6010 / 7000 (Title 22 Metals); 8015 (DRO) / ORO; 8015 (GRO); 8081 (Organochlorine Pesticides); 8082 (PCBs); 8260 / 624 (Volatiles); 8270 (Semi-volatiles); Select Analysis; Enter Custom Analysis (Gas + BTEX); Enter Custom Analysis ×15

Encircle Sample Matrix: Soil; Select Solid Matrix; Groundwater; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

ITEM	Lab No.	Sample ID / Location	Date	Time	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn(Ac)2; 6=NaOH; 7=NA2S2O3	QA/QC: ☐Routine ☑Caltrans ☐Legal ☐RWQCB ☐Level IV — REMARKS
1	1400806 -41	70/5-NW-10.5	3/13/14	1303	5	1	1	2	4	Hard
2	-42	70/5-NW-11.5		1308						
3	-43	70/4-SW-7.5		1425						
4	-44	70/4-SW-11.5		1427						Hard
5	-45	70/4-SE-3.5		1515						
6	-46	70/4-SE-7.5		1520						
7	-47	70/4-SE-GW		1543		2	3	1	4	
8	~~-47~~	70/4-SE-GW	↓	1543		3	2	1	4/1	
9	-48	70/5-NE-3.5	3/14/14	1317		1	1	2	4	
10	-49	70/5-NE-C.O	↓	1324						

TERMS

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   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
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   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
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   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Josh Ewert — Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Josh Ewert	3/14/14	1530	ONTRAC	3/14/14	1538
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
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Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 5 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
☐Client ☐ATL ☐FedEx ☐OnTrac ☐GSO ☐Other:		1. CHILLED	☐ ☐	5. # OF SAMPLES MATCH COC	☐ ☐
		2. HEADSPACE (VOA)	☐ ☐	6. PRESERVED	☐ ☐
		3. CONTAINER INTACT	☐ ☐	7. COOLER TEMP. deg C:	
		4. SEALED	☐ ☐		

CUSTOMER

Company: Geocon Consultants		Address: 3160 Gold Valley Drive Suite #800			Tel: (916) 852-9118
		City: Rancho Cordova	State: CA	Zip: 95742	Fax: (916) 852-9132

SEND REPORT TO:		SEND INVOICE TO: ☐same as SEND REPORT TO	
Attn: John Juhrend	Email: juhrend@geoconinc.com	Attn: Same	Email:
Company: Geocon Consultants		Company:	
Address: 3160 Gold Valley Drive Suite #800		Address:	
City: Rancho Cordova	State: CA Zip: 95742	City:	State: Zip:

PROJECT SAMPLES

Project Name: Yuba and ~~Colusa~~ HIP	Quote #:	Special Instructions/Comments: Billing per Caltrans contract #03A2132
Project No.: S9805-01-23	PO #:	
Sampler: Josh Ewert		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time
1	1400805 -50	70/5-NE-7.5	3/14/14	1320
2	-51	70/5-NE-11.5	↓	1330
3				
4				
5				
6				
7				
8				
9				
10				

Encircle or Write Requested Analysis

6010 / 7000 (Title 22 Metals)	8015 (DRO) 1020	8015 (GRO)	8081 (Organochlorine Pesticides)	8082 (PCBs)	8260 / 624 (Volatiles)	8270 (Semi-volatiles)	Select Analysis	Enter Custom Analysis GKS	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis
	X							X									

Encircle Sample Matrix

Soil	Select Solid Matrix	Groundwater	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix
X					
X					

TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Sleeve; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	QA/QC: ☐Routine ☑Caltrans ☐Legal ☐RWQCB ☐Level IV	REMARKS
5 ↓	1 ↓	1 ↓	2 ↓	4 ↓		How
↓	↓	↓	↓	↓		

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Josh Ewert — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Josh A Ewert	3/14/14	1530	GNTBAC	3/14/14	1530
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

March 31, 2014

John Juhrend
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax:(916) 852-9132

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1400806
Client Reference : Yuba HIP, S9805-01-23

Enclosed are the results for sample(s) received on March 15, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/31/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
20/H-SW-3.5	1400806-21	Soil	3/13/14 8:23	3/15/14 9:29
20/H-SW-6.5	1400806-22	Soil	3/13/14 8:47	3/15/14 9:29
20/H-SW-7.5	1400806-23	Soil	3/13/14 8:56	3/15/14 9:29
70/4-SE-3.5	1400806-45	Soil	3/13/14 15:15	3/15/14 9:29

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/31/2014

Lead by ICP-AES EPA 6010B

Analyte: Lead **Analyst: CB**

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1400806-22	20/H-SW-6.5	**5.4**	mg/kg	1.0	NA	1	B4C0562	03/28/2014	03/28/14 15:03	
1400806-23	20/H-SW-7.5	**3.8**	mg/kg	1.0	NA	1	B4C0562	03/28/2014	03/28/14 15:11	

STLC Metals by ICP-AES by EPA 6010B

Analyte: Lead **Analyst: CB**

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1400806-21	20/H-SW-3.5	**3.5**	mg/L	1.0	NA	20	B4C0574	03/28/2014	03/28/14 16:53	
1400806-45	70/4-SE-3.5	**17**	mg/L	1.0	NA	20	B4C0574	03/28/2014	03/28/14 16:55	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/31/2014

QUALITY CONTROL SECTION

Lead by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0562 - EPA 3050 Modified									
Blank (B4C0562-BLK1)					Prepared: 3/28/2014 Analyzed: 3/28/2014				
Lead	ND	1.0			NR				
LCS (B4C0562-BS1)					Prepared: 3/28/2014 Analyzed: 3/28/2014				
Lead	51.3008	1.0	50.0000		103	80 - 120			
Duplicate (B4C0562-DUP1)		**Source: 1400806-22**			Prepared: 3/28/2014 Analyzed: 3/28/2014				
Lead	5.70502	1.0		5.42154	NR		5.10	20	
Matrix Spike (B4C0562-MS1)		**Source: 1400806-22**			Prepared: 3/28/2014 Analyzed: 3/28/2014				
Lead	128.568	1.0	250.000	5.42154	49.3	51 - 106			M1
Matrix Spike Dup (B4C0562-MSD1)		**Source: 1400806-22**			Prepared: 3/28/2014 Analyzed: 3/28/2014				
Lead	180.296	1.0	250.000	5.42154	69.9	51 - 106	33.5	20	R

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/31/2014

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0574 - STLC Extraction									
Blank (B4C0574-BLK1)					Prepared: 3/28/2014 Analyzed: 3/28/2014				
Chromium	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B4C0574-BS1)					Prepared: 3/28/2014 Analyzed: 3/28/2014				
Chromium	2.08798	1.0	2.00000		104	80 - 120			
Lead	2.06043	1.0	2.00000		103	80 - 120			
Duplicate (B4C0574-DUP1)		**Source: 1400567-08**			Prepared: 3/28/2014 Analyzed: 3/28/2014				
Chromium	0.364822	1.0		0.191185	NR		62.5	20	R
Lead	5.86060	1.0		7.18689	NR		20.3	20	R
Matrix Spike (B4C0574-MS1)		**Source: 1400567-08**			Prepared: 3/28/2014 Analyzed: 3/28/2014				
Chromium	2.74519	1.0	2.50000	0.191185	102	83 - 115			
Lead	9.53750	1.0	2.50000	7.18689	94.0	41 - 136			
Matrix Spike Dup (B4C0574-MSD1)		**Source: 1400567-08**			Prepared: 3/28/2014 Analyzed: 3/28/2014				
Chromium	2.71484	1.0	2.50000	0.191185	101	83 - 115	1.11	20	
Lead	9.29819	1.0	2.50000	7.18689	84.5	41 - 136	2.54	20	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/31/2014

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Rachelle Arada

From: Josh Ewert [ewert@geoconinc.com]
Sent: Monday, March 24, 2014 4:01 PM
To: Rachelle Arada
Cc: 'John Juhrend'; customer.relations@atlglobal.com
Subject: RE: Results - Yuba HIP, S9805-01-23 (ATL# 1400806)

Hi Rachelle
I'm sorry. Those sample ID's should be 20/H-SW-6.5 and 20/H-SW-7.5.
Thanks,

-Josh Ewert, PG | *Project Geologist*
Geocon Consultants, Inc.
3160 Gold Valley Drive Suite 800, Rancho Cordova, CA 95742
Tel 916.852.9118 Fax 916.852.9132 Cell 916.212.5168
Visit our NEW website at www.geoconinc.com

From: Rachelle Arada [mailto:Rachelle@atlglobal.com]
Sent: Monday, March 24, 2014 3:59 PM
To: Josh Ewert
Cc: 'John Juhrend'; customer.relations@atlglobal.com
Subject: RE: Results - Yuba HIP, S9805-01-23 (ATL# 1400806)

Hi Josh,

Please check samples 20/H-6.5 and 20/H-7.5, these are not showing in our system.

Rachelle

From: Josh Ewert [mailto:ewert@geoconinc.com]
Sent: Monday, March 24, 2014 3:33 PM
To: Rachelle Arada
Cc: 'John Juhrend'
Subject: RE: Results - Yuba HIP, S9805-01-23 (ATL# 1400806)

Hi Rachelle,
I would like to run some additional analysis on soil samples for this Yuba HIP project. Please run soil samples 20/H-SW-3.5 and 70/4-SE-3.5 for wet soluble lead. Additionally, please run soil samples 20/H-6.5 and 20/H-7.5 for total lead. And just as a heads up, I believe the hold time on these samples will expire in the next day or two.
Thank you,

-Josh Ewert, PG | *Project Geologist*
Geocon Consultants, Inc.
3160 Gold Valley Drive Suite 800, Rancho Cordova, CA 95742

Tel 916.852.9118 Fax 916.852.9132 Cell 916.212.5168
Visit our NEW website at www.geoconinc.com

From: John Juhrend [mailto:juhrend@geoconinc.com]
Sent: Monday, March 24, 2014 2:08 PM
To: Kari Cook; Josh Ewert
Cc: Mike O' Brien
Subject: FW: Results - Yuba HIP, S9805-01-23 (ATL# 1400806)

Ditto on this one.

Josh – do we need to assign additional samples?

John Juhrend, PE, CEG, CEM | *Principal / Senior Engineer*
Geocon Consultants, Inc.
3160 Gold Valley Drive Suite 800, Rancho Cordova, CA 95742
Tel 916.852.9118, ext. 501 Mobile 916.508.1911
www.geoconinc.com

From: Rachelle Arada [mailto:Rachelle@atlglobal.com]
Sent: Monday, March 24, 2014 1:49 PM
To: juhrend@geoconinc.com
Cc: Kari Cook
Subject: Results - Yuba HIP, S9805-01-23 (ATL# 1400806)

Hi John,

Attached are the results for the above project.

Rachelle Arada
Project Manager

Advanced Technology Laboratories
www.atlglobal.com
Tel: (562) 989-4045 ext. 237
Fax: (562) 989-4040

ADVANCED TECHNOLOGY LABORATORIES

March 31, 2014

John Juhrend
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax:(916) 852-9132

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1400806
Client Reference : Yuba HIP, S9805-01-23

Enclosed are the results for sample(s) received on March 15, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/31/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
20/F-SW-3.5	1400806-32	Soil	3/13/14 11:06	3/15/14 9:29
70/5-NE-3.5	1400806-48	Soil	3/14/14 13:17	3/15/14 9:29

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/31/2014

STLC Metals by ICP-AES by EPA 6010B

Analyte: Chromium **Analyst: CB**

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1400806-32	20/F-SW-3.5	**ND**	mg/L	1.0	NA	20	B4C0582	03/30/2014	03/31/14 11:28	
1400806-48	70/5-NE-3.5	**ND**	mg/L	1.0	NA	20	B4C0582	03/30/2014	03/31/14 11:37	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/31/2014

QUALITY CONTROL SECTION

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4C0582 - STLC Extraction									
Blank (B4C0582-BLK1)					Prepared: 3/30/2014 Analyzed: 3/31/2014				
Chromium	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B4C0582-BS1)					Prepared: 3/30/2014 Analyzed: 3/31/2014				
Chromium	2.06493	1.0	2.00000		103	80 - 120			
Lead	2.06715	1.0	2.00000		103	80 - 120			
Duplicate (B4C0582-DUP1)		**Source: 1400806-32**			Prepared: 3/30/2014 Analyzed: 3/31/2014				
Chromium	0.052245	1.0		0.058117	NR		10.6	20	
Lead	0.523387	1.0		0.548092	NR		4.61	20	
Matrix Spike (B4C0582-MS1)		**Source: 1400806-32**			Prepared: 3/30/2014 Analyzed: 3/31/2014				
Chromium	2.61482	1.0	2.50000	0.058117	102	83 - 115			
Lead	2.97082	1.0	2.50000	0.548092	96.9	41 - 136			
Matrix Spike Dup (B4C0582-MSD1)		**Source: 1400806-32**			Prepared: 3/30/2014 Analyzed: 3/31/2014				
Chromium	2.61728	1.0	2.50000	0.058117	102	83 - 115	0.0937	20	
Lead	2.97669	1.0	2.50000	0.548092	97.1	41 - 136	0.198	20	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 03/31/2014

Notes and Definitions

ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Diane Galvan

From: John Juhrend [juhrend@geoconinc.com]
Sent: Friday, March 28, 2014 8:52 AM
To: Diane Galvan
Cc: Josh Ewert
Subject: FW: Results - Yuba HIP, S9805-01-23 (ATL# 1400806)
Attachments: 1400806.pdf

Re: ATL 1400806 samples 32 and 48

Hi Diane – please analyze these two soil samples for WET soluble chromium under 5-day TAT.

Please reply and confirm.

Thanks!

John

John Juhrend, PE, CEG, CEM | *Principal / Senior Engineer*
Geocon Consultants, Inc.
3160 Gold Valley Drive Suite 800, Rancho Cordova, CA 95742
Tel 916.852.9118, ext. 501 Mobile 916.508.1911
www.geoconinc.com

ADVANCED TECHNOLOGY LABORATORIES

April 07, 2014

John Juhrend
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax:(916) 852-9132

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1400806
Client Reference : Yuba HIP, S9805-01-23

Enclosed are the results for sample(s) received on March 15, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 04/07/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
70/4-SE-3.5	1400806-45	Soil	3/13/14 15:15	3/15/14 9:29

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 04/07/2014

TCLP Metals by ICP-AES EPA 6010B

Analyte: Lead **Analyst: CB**

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1400806-45	70/4-SE-3.5	**0.24**	mg/L	0.050	NA	1	B4D0081	04/04/2014	04/04/14 16:38	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 04/07/2014

QUALITY CONTROL SECTION

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4D0081 - EPA 3010A_SOIL									
Blank (B4D0081-BLK1)					Prepared: 4/4/2014 Analyzed: 4/4/2014				
Lead	ND	0.050			NR				
Blank (B4D0081-BLK2)					Prepared: 4/4/2014 Analyzed: 4/4/2014				
Lead	ND	0.050			NR				
LCS (B4D0081-BS1)					Prepared: 4/4/2014 Analyzed: 4/4/2014				
Lead	1.02796	0.050	1.00000		103	80 - 120			
Duplicate (B4D0081-DUP1)		**Source: 1302657-01**			Prepared: 4/4/2014 Analyzed: 4/4/2014				
Lead	0.158158	0.050		0.207447	NR		27.0	20	R
Matrix Spike (B4D0081-MS1)		**Source: 1302657-01**			Prepared: 4/4/2014 Analyzed: 4/4/2014				
Lead	2.64398	0.050	2.50000	0.207447	97.5	81 - 105			
Matrix Spike Dup (B4D0081-MSD1)		**Source: 1302657-01**			Prepared: 4/4/2014 Analyzed: 4/4/2014				
Lead	2.85044	0.050	2.50000	0.207447	106	81 - 105	7.52	20	M1
Batch S4D0048 - B4D0080									
Instrument Blank (S4D0048-IBL1)					Prepared: 4/4/2014 Analyzed: 4/4/2014				
Lead	ND	0.050			NR				

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : Yuba HIP, S9805-01-23
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 04/07/2014

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Diane Galvan

From: Rachelle Arada
Sent: Tuesday, April 01, 2014 8:13 AM
To: Diane Galvan
Cc: customer.relations@atlglobal.com
Subject: FW: Additional Results/EDD/Invoice - Yuba HIP (1400806)

From: Josh Ewert [mailto:ewert@geoconinc.com]
Sent: Monday, March 31, 2014 5:03 PM
To: Rachelle Arada
Cc: 'John Juhrend'; customer.relations@atlglobal.com
Subject: Re: Additional Results/EDD/Invoice - Yuba HIP (1400806)

Hi Rachelle,
For my Yuba HIP S9805-01-12 project, please run soil sample 70/4-SE-3.5 for TCLP lead.
Thank you,

-Josh Ewert, PG | *Project Geologist*
Geocon Consultants, Inc.
3160 Gold Valley Drive Suite 800, Rancho Cordova, CA 95742
Tel 916.852.9118 Fax 916.852.9132 Cell 916.212.5168
Visit our NEW website at www.geoconinc.com

SUPPLEMENTAL SITE INVESTIGATION REPORT

Marysville Highway Improvement Project
State Route 70 between 4th and 5th Streets
Yuba County, California

PREPARED FOR:

CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 3
ENVIRONMENTAL ENGINEERING OFFICE
703 B STREET
MARYSVILLE, CALIFORNIA 95901

PREPARED BY:

GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DRIVE, SUITE 800
RANCHO CORDOVA, CALIFORNIA 95742

GEOCON PROJECT NO. S9805-01-45
TASK ORDER NO. 45, EA 03-1E7601

JANUARY 2015

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S9805-01-45
January 22, 2015

Mr. Mark Melani
California Department of Transportation - District 3
Environmental Engineering Office
703 B Street
Marysville, California 95901

Subject: SUPPLEMENTAL SITE INVESTIGATION REPORT
MARYSVILLE HIGHWAY IMPROVEMENT PROJECT
STATE ROUTE 70 BETWEEN 4TH AND 5TH STREETS
MARYSVILLE, YUBA COUNTY, CALIFORNIA
CONTRACT NO. 03A2132, TASK ORDER NO. 45, EA 03-1E7601

Geocon Reference Report: ***Site Investigation Report, Marysville Highway Improvement Project, State Route 70 Between 4th and 5th Streets, State Route 20 between H and F Streets, Yuba County, California***, *April 16, 2014.*

Dear Mr. Melani:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A2132 and Task Order Number (TO) No. 45, Expense Authorization (EA) 03-1E7601, Geocon Consultants, Inc. has performed additional environmental engineering services for the proposed Marysville Highway Improvement Project located along State Route 70 in the City of Marysville, Yuba County, California. The accompanying report summarizes the services performed including the performance of nine borings for soil sample collection at two suspected underground storage tank locations and analytical laboratory testing. This information is supplemental to prior site assessment activities reported in our referenced *Site Investigation Report* for the subject project dated April 16, 2014.

The contents of this report reflect the views of the author, who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

Please contact us if there are any questions concerning the contents of this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

John E. Juhrend, PE, CEG
Project Manager

Josh Ewert, PG
Project Geologist

PROFESSIONAL GEOLOGIST
JOSH EWERT
NO. 9096
STATE OF CALIFORNIA

(5 + 3 CD) Addressee

TABLE OF CONTENTS

SUPPLEMENTAL SITE INVESTIGATION REPORT PAGE

FIGURES

PHOTOGRAPHS (1 through 6)

TABLES

APPENDICES

SUPPLEMENTAL SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Supplemental Site Investigation (SSI) Report for the Marysville Highway Improvement Project, located along State Route 70 (SR-70) in the City of Marysville, Yuba County, California, was prepared by Geocon Consultants, Inc. under California Department of Transportation (Caltrans) Contract No. 03A2132, Task Order (TO) No. 45 and Expense Authorization (EA) 03-1E7601.

1.1 Project Description and Proposed Improvements

The project limits consist of north-south SR-70 (E Street) between 4th and 5th Streets in the commercial downtown Marysville area. SR-70 within the project limits is four lanes, with a paved center median, signalized intersections, and turning lanes. Sidewalks are present along both sides of the highway. The approximate project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2.

Planned traffic operational improvements include removal of the paved center median, installation of turning lane pockets, relocation of street lighting from medians to sidewalks, revised intersection signalization, construction of Americans with Disabilities Act-compliant ramps, and sidewalk rehabilitation. Planned excavations for sidewalk reconstruction may extend 2 feet into subgrade soil. Deeper excavations to a maximum depth of approximately 12 feet may be required for signal and light pole foundations.

Partial parcel right-of-way (ROW) takes and temporary construction easements may be required for six parcels located at the intersection corners within the project boundaries to facilitate construction of the planned improvements. The triangular-shaped ROW takes generally extend from 5 to 9 feet along the adjacent highway and street ROW.

1.2 General Objectives

The objective of this investigation was to further evaluate potential subsurface impacts from suspected underground storage tanks (USTs) at two locations within the SR-70 ROW (sidewalk areas) adjacent to the 420 E Street Parcel. An abandoned UST was previously encountered during the performance of a boring (70/5-SW) in the southwest corner of SR-70 and 5th Street and in front of the vacant portion of the 420 E Street Parcel. Boring 70/5-SW was performed in the sidewalk area at the southwest corner of SR-70 and 5th Street during our initial site investigation in March 2014. The UST was encountered at a depth of approximately 4.5 feet with the bottom at approximately 7.2 feet. Approximately 2.5 feet of fluid with a strong gasoline odor was noted in the boring. Two gasoline UST fill pipes were further observed within the SR-70 ROW (sidewalk area) approximately 130 feet south of the southwest corner of SR-70 and 5th Street in front of the former auto sales/service building at the 420 E Street Parcel.

Caltrans will use the investigative results for preliminary project scoping, ROW acquisition, regulatory UST closure evaluations, and to inform the construction contractor(s) if subsurface impacts are present within the project boundaries for health, safety, management and disposal evaluation purposes. The fieldwork, sampling, laboratory analysis, and related tasks were performed in general accordance with Contract 03A2132 requirements.

2.0 BACKGROUND

The following background information was obtained from our April 16, 2014, *Site Investigation Report* prepared for the Marysville Highway Improvement Project and updated regulatory records.

2.1 2014 Site Investigation Report

We completed the referenced 2014 site investigation within the overall project boundaries that included assessment of planned ROW takes at the following six parcels and associated map identification numbers (Map IDs):

- Map ID #1 - 504 4th Street (McDonalds parking lot, former garage facility)
- Map ID #2 - 422 4th Street (Sierra Central Credit Union, former Texaco gasoline station)
- Map ID #3 - 401 E Street (Subway, former Mobil gasoline station)
- Map ID #4 - 420 E Street Parcel (420 MVL art studio and vacant lot, former auto sales/service building and gasoline station)
- Map ID #5 - 501 5th Street (active Shell gasoline station)
- Map ID #6 - 431 5th Street (D&D Motorsports, former gasoline station)

The relatively flat project area is located within the central portion of the Great Valley geomorphic province at an elevation of approximately 60 feet above mean sea level. Local geology consists of a thick sequence of unconsolidated and interbedded alluvial sediments generally composed of interbedded silt, clay and sand layers with some gravel. Depth to groundwater within the project boundaries generally varies from 20 to 25 feet. The regional groundwater flow direction is generally northwesterly to northeasterly with local variations.

Abandoned USTs were identified at the following three locations within the project boundaries during the 2014 site investigation:

- Map ID #3 - four USTs partially located within the SR-70 ROW (sidewalk area) as documented during site investigation activities associated with the former Mobil gasoline station.

- Map ID #4 - at least one UST partially located in the SR-70 ROW (sidewalk area) at the southwest corner of SR-70 and 5th Street as evidenced by conditions encountered in boring 70/5-SW and the results of a geophysical survey completed during our referenced 2014 site investigation (Photos 1 and 2).

- Map ID #4 - two USTs located in the SR-70 ROW (sidewalk area) approximately 130 feet south of the southwest corner of SR-70 and 5th Street as evidenced by two fill pipes with gasoline brand tags (Flying A and Union 76) (Photos 3 through 5) and the results of a geophysical survey completed during our referenced 2014 site investigation.

The approximate abandoned UST locations are depicted on Figure 2. A copy of the *Geophysical Investigation Results* prepared by Advanced Geological Services is in Appendix A.

2.2 Historical and Regulatory Document Review

2.2.1 Sanborn Fire Insurance Maps

1921 and 1948 Sanborn Maps provided by Caltrans depict historical service station facilities ("Gas & Oil") at the southwest corner of SR-70 and 5th Street on the current vacant lot portion of the 420 E Street Parcel (Map ID #4). The 1948 Sanborn Map depicts an "Auto Sales & Service" building at the current building location on the 420 E Street Parcel (Map ID #4).

Other potential historical facilities of interest identified within the project limits on the Sanborn Maps include:

- "Dunning Bros. Co. Garage" (1921) at the southwestern corner of E and 4th Streets (Map ID #1).
- "Garage" and "Gas & Oil" (1921 and 1948 maps) immediately south of southwestern corner of E and 4th Streets (adjacent and south of Map ID #1).
- "Oil & Gas" station (1921 & 1948 maps) at the southeastern corner of E and 4th Streets (Map ID #2).
- "Gas & Oils" station (1948 map) at the northeastern corner of E and 4th Streets (Map ID #3).
- "Gas & Oil" stations (1948 map) at the northwestern and northeastern corners of E and 5th Streets (Map ID #5 and #6).

The 1921 and 1948 Sanborn Maps depicting the former service station and automobile garage locations along SR-70 (E Street) within the project limits are on Figures 3-1 and 3-2.

2.2.2 GeoTracker and EnviroStor Databases

We reviewed regulatory database records for leaking UST (LUST) facilities within the project boundaries on the State Water Resources Control Board (SWRCB) GeoTracker website (http://geotracker.waterboards.ca.gov/). The information obtained for the identified facilities along

with their Map IDs are summarized below. The approximate facility locations by Map ID number are presented on the Site Plan, Figure 2.

- **Sierra Central Credit Union (Former Texaco Station), 422 4th Street, Map ID #2**. This facility is an Open LUST Cleanup Site regulated by the Central Valley Regional Water Quality Control Board (CVRWQCB). A former Texaco service station facility reportedly operated at the southeast corner of SR-70 and 4th Streets between 1955 and 1979 (also identified as a gasoline station on 1921 and 1948 Sanborn Maps). The fuel USTs were removed from this facility by 1979. Site investigations performed at this facility since 1992 included the installation of seven onsite wells and two offsite wells within SR-70. Petroleum hydrocarbon soil and groundwater impacts have been identified at this facility. Vacuum extraction was performed at this facility in January 2013 including the removal of 740 gallons of treated groundwater. Depth to groundwater in May 2014 ranged from 21 to 24 feet with flow direction toward the east-northeast. The CVRWQCB has directed that this facility and the adjacent LUST case to the north (former Mobil, Map ID #3) to perform coordinated groundwater monitoring and include data from both facilities showing combined groundwater impacts. An April 2013 report for this facility identified the current McDonalds property across SR-70 as being a former "gas & oil" station (former Twin Cities Garage). A November 20, 2014, workplan for this facility proposed the performance of two soil borings near the existing bank building to determine if the facility meets the vapor intrusion criteria for a low-threat regulatory case closure. The workplan was approved by the CVRWQCB in writing dated December 2, 2014. Groundwater impacts associated with this facility likely extend into the Caltrans ROW to the west but do not appear to have impacted the 420 E Street Parcel. Copies of the most recent (May 2014) groundwater flow direction/plume maps and monitoring well analytical summary tables for this facility are in Appendix B.

- **Marysville Plaza (Former Mobil Station, current Subway), 401 E Street, Map ID #3**. This facility is an Open LUST Cleanup Site regulated by the CVRWQCB. A former Mobil service station facility reportedly operated at this property located at the northeast corner of SR-70 and 4th Streets between 1953 and 1963 (also identified as a gasoline station on 1948 Sanborn Map). Four USTs were closed-in-place (sand-filled) at the southwestern corner of this facility extending beneath the SR-70 sidewalk area. Site investigations performed at this facility since 1993 included the installation of three onsite wells and three offsite wells including well MW-4 within the center median area of SR-70 and well MW-6 located directly across SR-70 from the southern USTs on the 420 E Street Parcel. Petroleum hydrocarbon soil and groundwater impacts have been identified at this facility. Planned site activities in a workplan dated March 27, 2013, include quarterly groundwater monitoring, soil gas sampling and interim remediation consisting of high-vacuum hydrocarbon mass removal. The workplan was approved by the CVRWQCB in writing dated April 9, 2013. Depth to groundwater in August 2014 ranged from 24 to 26 feet with an easterly flow direction. Groundwater impacts associated with this facility likely extend into the Caltrans ROW but do not appear to have impacted the 420 E Street Parcel. Further, based on the lack of impacts in well MW-6, potential groundwater impacts from the southern USTs located on the 420 E Street Parcel have not migrated across SR-70. Copies of the most recent (August 2014) groundwater flow direction/plume maps and monitoring well analytical summary tables for this facility are in Appendix B.

- **Shell Station, 501 5th Street, Map ID # 5, Photo 6**. This active gasoline station facility, located at the northwest corner of SR-70 and 5th Street, received LUST case closure status from the CVRWQCB in January 2014. The facility was identified as a gasoline station on the 1948 Sanborn Map in a different configuration from the existing station. Fuel and waste oil USTs and associated contaminated soil were removed from this facility in 1986 and 1990. Site investigations performed

at this facility since 1991 included the installation of nine onsite and seven offsite wells. The facility-related monitoring wells, including wells MW-6 and MW-8 located adjacent to and on the 420 E Street Parcel, were destroyed in 2013. Petroleum hydrocarbon soil and groundwater impacts have been identified at this facility. Groundwater extraction was performed at this facility between 2006 and 2009 including the removal of 418,505 gallons of treated groundwater. Depth to groundwater in July 2012 ranged from 20 to 25.5 feet with variable flow direction. The lateral extent of gasoline-groundwater from this facility likely extends onto the 420 E Street Parcel as evidenced by elevated gasoline constituents (7,800 micrograms per liter [µg/l] gasoline and 62 µg/l benzene) in monitoring well MW-6 formerly located on the south side of 5th Street in the Caltrans ROW (sidewalk area). Former monitoring well MW-8 located further south on the 420 E Street parcel was non-impacted by the gasoline groundwater plume associated with this active gasoline station facility. Copies of the most recent (July 2012) groundwater flow direction/plume map and monitoring well analytical summary tables for this facility are in Appendix B.

2.3 Waste Determination Criteria – Petroleum Hydrocarbons

Currently, regulatory criteria for the classification of wastes based solely on the concentrations of gasoline-range organics (GRO), diesel-range organics (DRO), oil-range organics (ORO), and volatile organic compounds (VOCs) have not yet been promulgated. Disposal of petroleum hydrocarbon and VOC-impacted soil and groundwater is generally regulated by disposal facility permit and acceptance criteria.

3.0 SCOPE OF SERVICES

We performed the following scope of services as requested by Caltrans in TO No. 45 and by the Caltrans TO Manager, Mr. Mark Melani.

3.1 Pre-field Activities

- Mr. John Juhrend with Geocon performed a brief site visit on December 12, 2014, to identify the project boundaries and existing site conditions. The proposed UST investigation areas at the 420 E Street Parcel (Map ID #4) were marked in white paint for subsequent utility clearance.
- Utilized the *Health and Safety Plan* dated March 2014 to provide guidelines on the use of personal protective equipment and the health and safety procedures implemented during the field activities.
- Provided 48-hour notice to Underground Service Alert (USA Ticket No. 0521456) prior to job site mobilization.
- Retained the services of Advanced Technology Laboratories (ATL), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of soil samples.

3.2 Field Activities

The field sampling activities consisted of the advancement of borings B1 through B9 to a maximum depth of 20 feet using hand-auger methods and Geocon's truck-mounted direct-push rig. Soil samples were generally collected at 4-foot intervals.

4.0 INVESTIGATIVE METHODS

4.1 Boring Location Rationale

Caltrans requested the performance of soil borings at each of the abandoned UST locations within the SR-70 ROW (sidewalk area) in front of the 420 E Street Parcel (Photo 1). The borings were performed to confirm the approximate UST locations and to obtain soil samples for initial characterization of potential UST-related soil impacts. Borings B1 and B2 were located to either side of the abandoned UST previously encountered in boring 70/5-SW during our March 2014 site investigation at the southwest corner of SR-70 and 5th Street (Photo 2). Borings B3 through B9 were performed in the vicinity of the two abandoned gasoline USTs located approximately 130 feet south of the corner of SR-70 and 5th Street (Photo 3). The approximate soil boring locations are depicted on Figure 4 and in the attached site photographs.

4.2 Utility Surveys

Responding USA subscribers marked potential utility conflicts prior to the start of the fieldwork. The presence of the USTs and buried utilities required that each boring location be hand-augured to a depth of at least 5 feet prior to using direct-push sampling techniques.

4.3 Site Safety and Traffic Control

A project safety meeting was held prior to starting the field sampling activities. We provided advance warning signs and cones including “sidewalk closed ahead” signs during the field sampling activities.

4.4 Soil Sampling Activities

We performed the field sampling activities on December 17, 2014. Shallow soil samples were collected directly from the hand-auger bucket and placed in stainless steel sample tubes. Continuous core soil samples obtained from the deeper direct-push portion of the borings were collected in 4-foot-long, 1.75-inch-diameter, cellulose thermoplastic (acetate) sample liners. Selected 6-inch-long sample intervals were cut from the continuous core sample tubes. Each soil sample container was fitted with Teflon™ sheets, capped, labeled and placed in an ice chest, pending delivery to ATL under chain-of-custody (COC) documentation.

The borings were logged by a Geocon Professional Geologist using the Unified Soil Classification System. Selected intervals of soil remaining in the acetate liners were transferred to re-sealable Ziploc® plastic bags and evaluated for odor and soil discoloration. The sample bags were field-screened using a photo-ionization detector (PID) as a qualitative indicator of potential VOCs. Soil sample intervals, soil description and PID readings are presented on the boring logs in Appendix C.

Quality assurance/quality control (QA/QC) procedures were performed during the field sampling activities. These procedures included decontamination of sampling equipment before each boring was advanced and providing COC documentation for each soil sample submitted to the laboratory. The soil sampling equipment was cleansed between each boring by washing the equipment with an Alconox™ solution followed by a double rinse with deionized water. The field sampling activities were performed under the supervision of Geocon's TO Manager.

The borings advanced to a depth exceeding 5 feet were backfilled with Portland cement through a tremie pipe. Borings advanced to a depth of five feet or shallower were backfilled with clean native soil. Each boring was capped at the surface with an approximate 3-inch-thick layer of concrete. Excess soil generated from the borings was placed into one labelled 55-gallon drum that was transported to the Geocon warehouse pending proper disposal as non-hazardous waste.

4.5 Laboratory Analyses

Selected soil samples collected within the project boundaries were submitted to ATL for the following analyses under standard ten-day turn-around-time (TAT).

- Eighteen soil samples were analyzed for gasoline analysis package including GRO following United States Environmental Protection Agency (EPA) Test Method 8015B (modified), benzene, toluene, ethylbenzene, and total xylenes (BTEX) following EPA Test Method 8021, and methyl tert-butyl ether (MTBE) following EPA Test Method 8260B.
- Twelve soil samples were analyzed for DRO and ORO following EPA Test Method 8015B.
- Four soil samples were analyzed for semi-volatile organic compounds (SVOCs) following EPA Test Method 8270C.
- Two soil samples were analyzed for Title 22 metals following EPA Test Methods 6010B and 7471A (mercury).

In accordance with Caltrans Contract 03A2132, ATL homogenized the soil samples prior to analysis for metals. QA/QC procedures were conducted for each method of analysis with specificity for each analyte listed in the test method's QA/QC. The laboratory QA/QC procedures included the following:

- One method blank for every ten samples, batch of samples or type of matrix, whichever is more frequent.
- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever is more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix, whichever is more frequent, with the spike made at ten times the detection limit or at the analyte level.

The COC documentation was reviewed for accuracy and completeness prior to submitting the soil samples to the laboratory. The laboratory was instructed to handle, analyze, and conduct QA/QC

procedures in accordance with Caltrans Contract 03A2132. Copies of the laboratory analytical report including QC summary and COC documentation are in Appendix D.

5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Soil and Hydrogeologic Conditions

Soils conditions encountered in the borings consisted of fill soils generally comprised of road base gravels and sands and undifferentiated fill containing trace amounts of brick debris overlying natural alluvial deposits. Fill materials were encountered as deep as 5 feet and primarily consist of fine sand and silty clay. The underlying alluvial deposits generally consist of fine-grained silty clay with intermittent layers of sand and gravel. In the absence of natural texture, rootlets, and mottling, the native materials appear to have been used in some locations as backfill making it difficult to distinguish the bottom depth of the fill deposits.

Field indicators of petroleum hydrocarbon impacts (e.g. staining, odors, elevated PID readings) were identified in soil cores obtained from borings B1, B2, B6, and B7. In borings B1 and B2, hydrocarbon impacts were first observed at 5 and 6.5 feet, respectively, and continued to be observed for the total respective depths explored of 20 and 15 feet. In borings B6 and B7, hydrocarbon impacts were observed in two depths separated by approximately 7 feet of unimpacted soil between them. The shallower contamination in borings B6 and B7 was observed from approximately 5.5 to 7.5 feet, and the deeper contamination started at depths of 14.25 and 13 feet, respectively. Perched groundwater (localized seepage) was encountered in borings B1 and B2 at depths of 4 and 3 feet respectively.

5.1.1 UST Observations

The bottom depths of the USTs located approximately 130 feet south of the southwest corner of SR-70 and 5th Street were determined by opening and lowering a tape measure inside the fill pipes. The bottom of the northern and southern fill pipes were measured at 7.2 and 7.0 feet, respectively. No liquid was observed on the tape measure upon its removal from the fill pipes indicating that both USTs do not contain liquid. We encountered the top of the USTs in borings B4, B5, and B8 at depths of 3.4, 3.8 and 3.8 inches, respectively. Based on the approximate top and bottom measurements, the USTs are likely 500 gallon tanks in capacity. Rusted metal piping associated with the USTs was observed in borings B3 and B4 (Photo 6). UST-related parts (UST, piping) were not encountered while drilling borings B1, B2, B6, B7, and B9.

Boring logs depicting the soil conditions encountered, soil sample locations and PID readings are in Appendix C.

5.2 Soil Analytical Results

Summaries of the soil sample analytical data are on Tables 1 and 2. The laboratory report and chain-of-custody documentation are in Appendix D.

5.2.1 Abandoned UST location at Southwest Corner of SR-70 and 5th Street (B1 & B2)

Benzene, toluene, MTBE and SVOCs were not detected at or exceeding the laboratory reporting limits (RLs) for each soil sample analyzed. GRO was detected in eight of nine soil samples analyzed at concentrations ranging from 150 to 2,000 milligrams per kilogram (mg/kg). DRO and ORO were detected in each of the six soil samples analyzed at concentrations ranging from 2.1 to 340 mg/kg. Ethylbenzene and/or total xylenes were detected in two soil samples at concentrations ranging from 600 to 2,300 micrograms per kilogram (µg/kg).

Nine Title 22 metals were detected exceeding RLs in soil sample B1-4.5 at concentrations ranging from 4.6 to 120 mg/kg. The Title 22 metal detections generally fall within the range of naturally occurring background levels as presented in *Background Concentrations of Trace and Major Elements in California Soils* (Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, March 1996).

5.2.2 Abandoned USTs 130 feet South of Southwest Corner of SR-70 and 5th Street (B3 – B9)

MTBE and SVOCs were not detected at or exceeding the laboratory RLs for each soil sample analyzed. GRO was detected in four of nine soil samples analyzed at concentrations ranging from 510 to 1,600 mg/kg. DRO and/or ORO were detected in each of the six soil samples analyzed at concentrations ranging from 1.5 to 570 mg/kg. BTEX and/or ethylbenzene were detected in two soil samples at concentrations ranging from 850 to 28,000 µg/kg.

Nine Title 22 metals were detected exceeding RLs in soil sample B6-4.5 at concentrations ranging from 4.7 to 94 mg/kg. The Title 22 metal detections generally fall within the range of naturally occurring background levels.

5.3 Laboratory Data Validation

Review of ATL's QA/QC reports indicate non-detect results for the method blanks. ATL's Case Narrative stated that surrogate recovery was diluted out for three samples and was outside the laboratory acceptance limits in several samples. Post spike, matrix spikes (MS) and/or matrix spike duplicates (MSD) for numerous samples were outside recovery criteria; however, the data were validated by the laboratory control samples (LCS). The relative percent difference (RPD) for three duplicate and two MS/MSD samples was outside the RPD limit, stating "RPD value outside acceptance criteria. Calculation is based on raw values". Dilution was necessary for each MS/MSD sample analyzed by EPA Test Method 8270C due to possible matrix interference. Also, MS samples were

biased high and MS recovery for Test Method 8270C was outside acceptance limits for two sample due to possible matrix interference; however, the analytical batch was validated by the LCS. Based on the laboratory QA/QC data, no additional qualification of the data presented herein is necessary, and the data are of sufficient quality for the purposes of this report.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The presence of at least three abandoned gasoline USTs has been confirmed at two locations within the sidewalk area adjacent to the 420 E Street Parcel at the southwest corner of SR-70 and 5th Street. The USTs are associated with historical auto sales/service and gasoline station facilities at the 420 E Street Parcel.

Field indicators (i.e. staining, odors, elevated PID readings) of petroleum hydrocarbon soil impacts were identified at the UST locations. Field observations, soil analytical data and the presence of gasoline tags on the southern UST fill pipes confirm the tanks were previously utilized for gasoline storage. The tanks appear to be approximately 500 gallons in capacity.

Gasoline-range petroleum hydrocarbon impacts were encountered in borings B1 and B2 located adjacent to the abandoned UST at the southwest corner of SR-70 and 5th Street. The impacts extend from the approximate tank location (4.5 to 7.2 feet) to the maximum depths explored of 20 feet. Gasoline-range petroleum hydrocarbon impacts were further encountered in borings B6 and B7 performed adjacent to the two abandoned USTs located approximately 130 feet south of the southwest corner of SR-70 and 5th Street. The impacts were identified at sample depths of 6 and 14.5 feet but not in intermediate sample depths of 7.5 and 11.5 feet.

Based on the soil analytical data, regulatory closure status of the adjacent active Shell gasoline station and ongoing groundwater monitoring data generated for the former gasoline stations located across SR-70, the abandoned tank locations in the sidewalk area in front of the 420 E Street Parcel are likely suitable for regulatory closure status under the SWRCB's Low-Threat UST Case Closure Policy (LTCP, August 17, 2012). Potential application of the LTCP case closure policy is based on the following conditions:

- The maximum detections of benzene, ethylbenzene and naphthalene in shallow soil (10 feet deep or less) are less than the threshold soil concentrations presented in Table 1 of the LTCP (Table 1).
- The UST at the southwest corner of SR-70 and 5th Street resides within the former monitoring well network for the Shell station (Map ID #5, Figure 2). Former Shell well MW-6 was located approximately 35 feet to the east of the UST, and MW-8 was located approximately 35 feet to the south of the UST (Figure 4). Based on the reported detections of hydrocarbon constituents in groundwater samples from MW-6 and the lack of impacts detected in groundwater samples from MW-8, it appears that any contamination being contributed from the UST at the corner of SR-70 and 5th Street is minimal.
- Gasoline-range impacts detected in shallow soil samples collected from borings B6 and B7 performed adjacent to the two abandoned USTs located approximately 130 feet south of the southwest corner of SR-70 and 5th Street were separated from a deeper contaminated zone by approximately 7 feet of clean soil. Furthermore, soil samples from the two contaminated zones identified in boring B7 were reported with dissimilar BTEX concentrations, suggesting that the contamination may have originated from different sources.

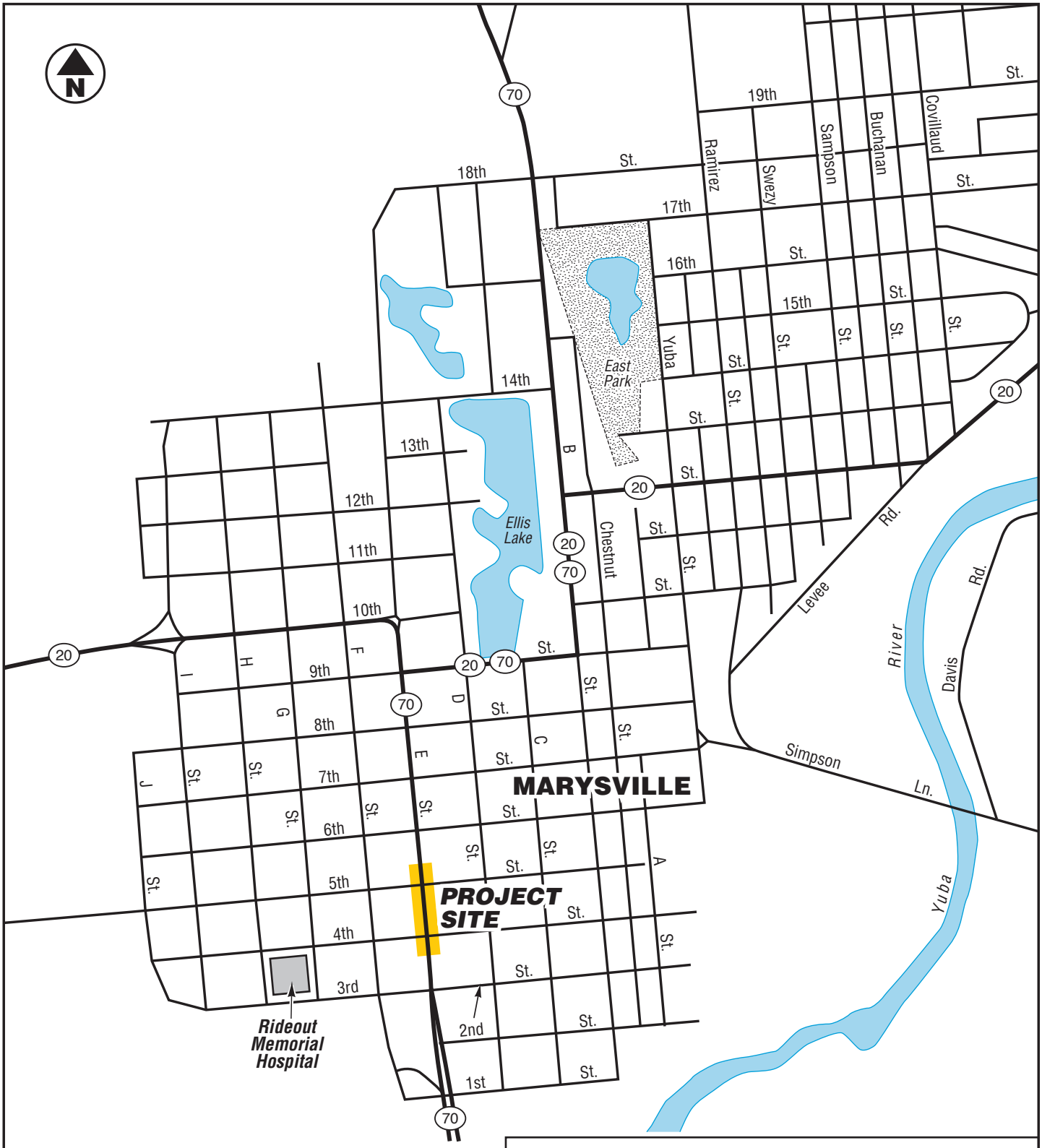
- The USTs located approximately 130 feet south of the southwest corner of SR-70 and 5th Street reside between the former monitoring well network for the Shell station (Map ID #5, Figure 2) and the current monitoring well network for the former Mobil station (Map ID #3, Figure 2). Former Shell well MW-8 and Mobil wells MW-4 and MW-6 were/are located approximately 90 feet north, 200 feet south and 100 feet east of the USTs, respectively. MTBE has not been detected in groundwater samples collected from any of these three wells. Benzene concentrations in Mobil well MW-4 varied between relatively low-levels and below reporting limits. Benzene has predominantly not been detected in former Shell well MW-8 and Mobil well MW-6 (Figure 4). This indicates that impacts to groundwater (if any) originating from the USTs located approximately 130 feet south of the southwest corner of SR-70 and 5th Street are limited.

It is anticipated that the three abandoned tanks located within the sidewalk area adjacent to the 420 E Street Parcel will require removal prior to construction of planned highway improvements. Any regulatory requirements for additional soil and groundwater assessment will be determined following completed removal of the tanks and the results of soil confirmation sampling.

7.0 REPORT LIMITATIONS

This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to contaminant sources other than those specified herein. Therefore, this report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. We strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.



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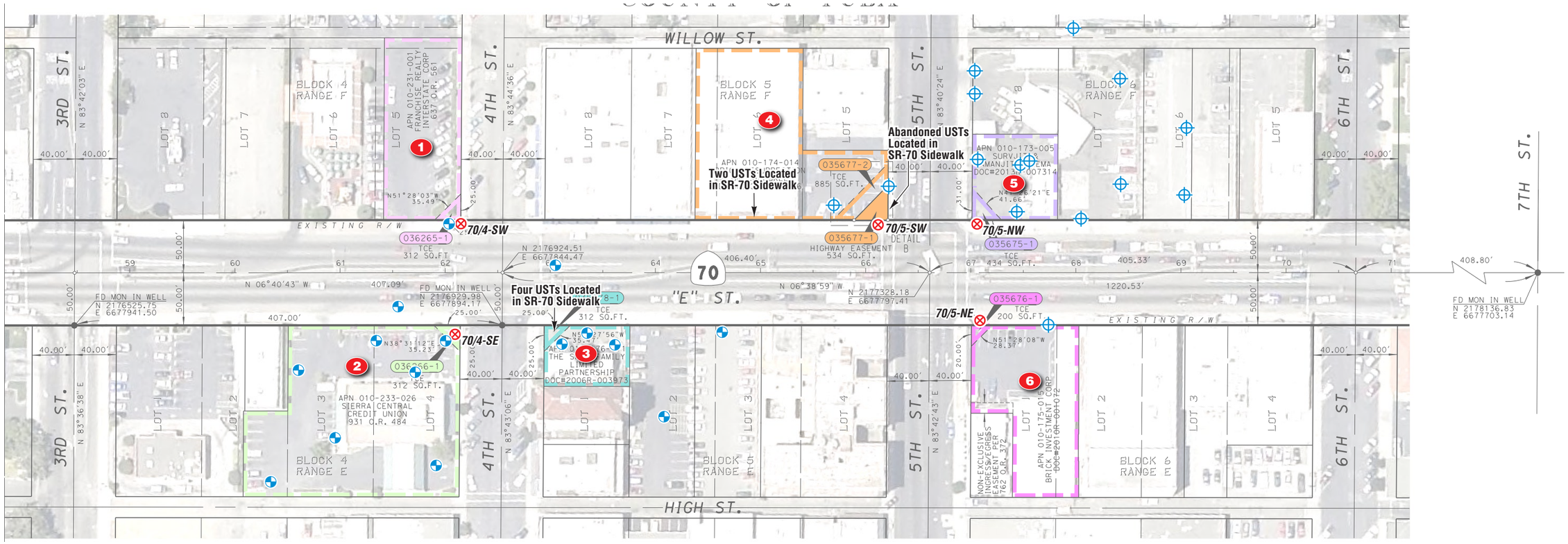
Marysville Highway Improvement Project

Yuba County, California	**VICINITY MAP**
GEOCON Proj. No. S9805-01-45	
Task Order No. 45	January 2015 — Figure 1



LEGEND:

- 70/4-SE ⊗ Approximate Boring Location (Geocon, March 2014)
- Approximate Monitoring Well Location
- Former Monitoring Well Location

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Yuba County, California

SITE PLAN

GEOCON Proj. No. S9805-01-45

Task Order No. 45 | January 2015 | Figure 2

1921 SANBORN MAP

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Marysville Highway Improvement Project		
GEOCON Proj. No. S9805-01-45	Yuba County, California	
Task Order No. 45	January 2015	Figure 3-1

1948 SANBORN MAP

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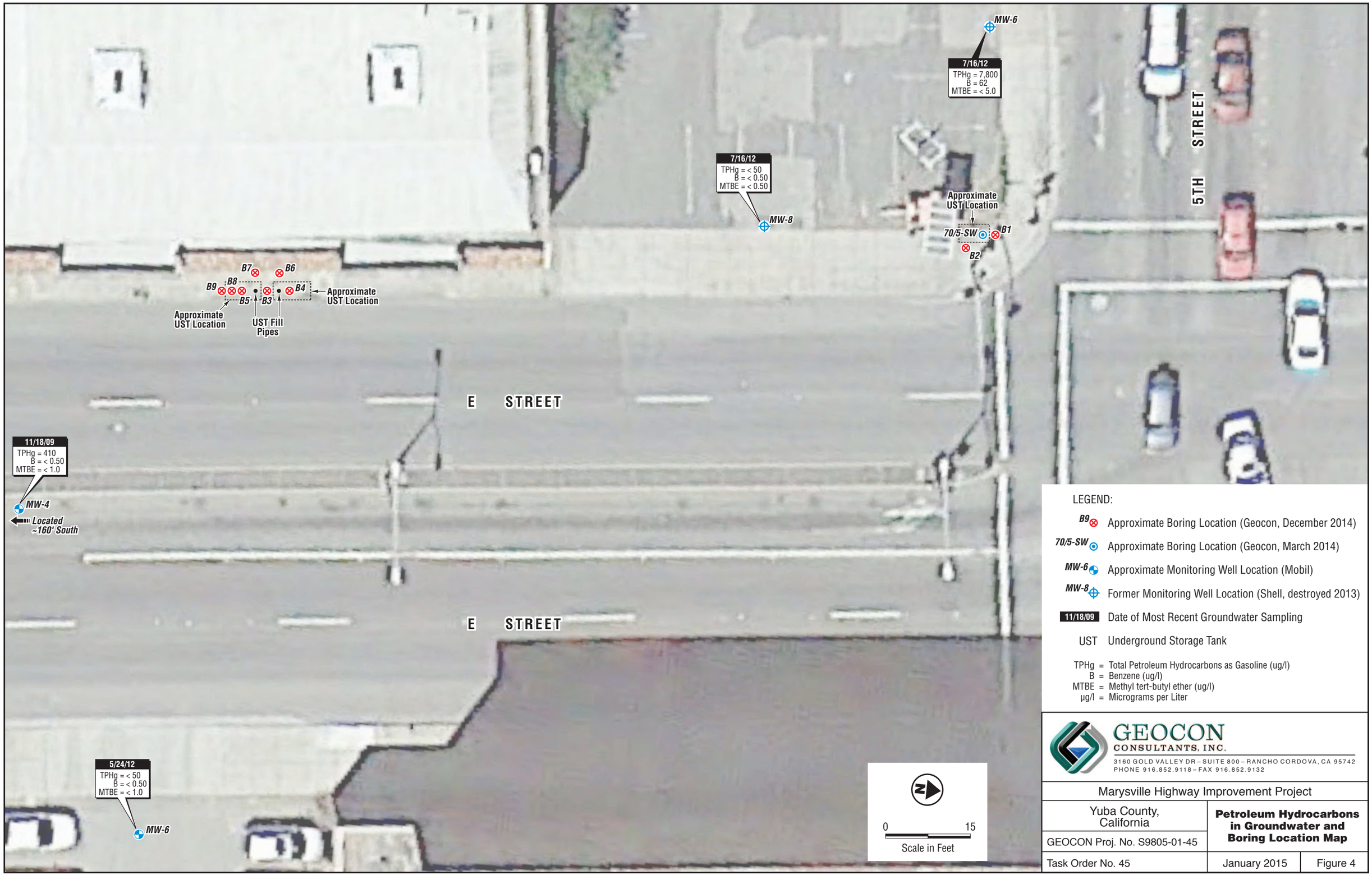
Marysville Highway Improvement Project		
GEOCON Proj. No. S9805-01-45	Yuba County, California	
Task Order No. 45	January 2015	Figure 3-2



LEGEND:

- B9 — Approximate Boring Location (Geocon, December 2014)
- 70/5-SW — Approximate Boring Location (Geocon, March 2014)
- MW-6 — Approximate Monitoring Well Location (Mobil)
- MW-8 — Former Monitoring Well Location (Shell, destroyed 2013)
- 11/18/09 — Date of Most Recent Groundwater Sampling
- UST — Underground Storage Tank

TPHg = Total Petroleum Hydrocarbons as Gasoline (ug/l)
B = Benzene (ug/l)
MTBE = Methyl tert-butyl ether (ug/l)
µg/l = Micrograms per Liter

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Yuba County, California	**Petroleum Hydrocarbons in Groundwater and Boring Location Map**	
GEOCON Proj. No. S9805-01-45		
Task Order No. 45	January 2015	Figure 4

Photo No. 1 View of investigation area including the southwest corner of 5th Street and State Route 70 (see Photo 2) and the western sidewalk of State Route 70 approximately 130 feet south of the intersection (see Photo 3).

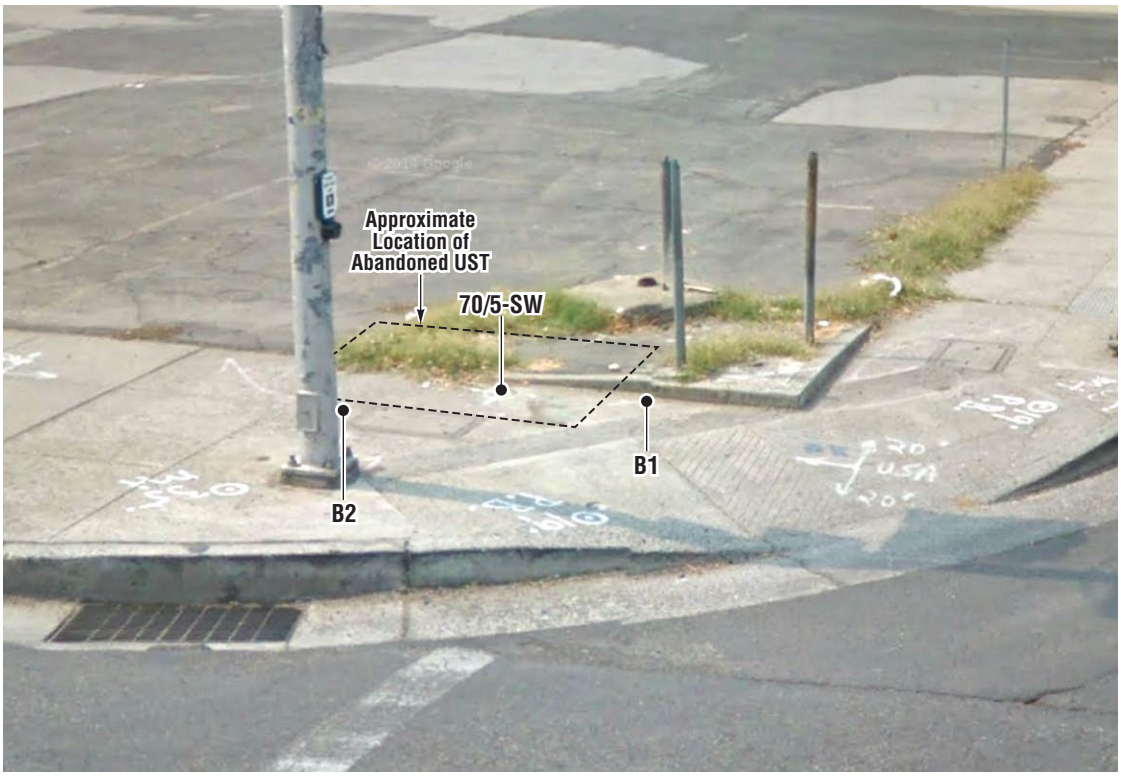

Photo No. 2 View of ground surface above abandoned UST at the southwest corner of 5th Street and State Route 70. Approximate locations of UST and soil borings are also shown.

PHOTOS NO. 1 & 2

GEOCON CONSULTANTS, INC.
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GEOCON Proj. No. S9805-01-45	Yuba County, California
Task Order No. 45	January 2015

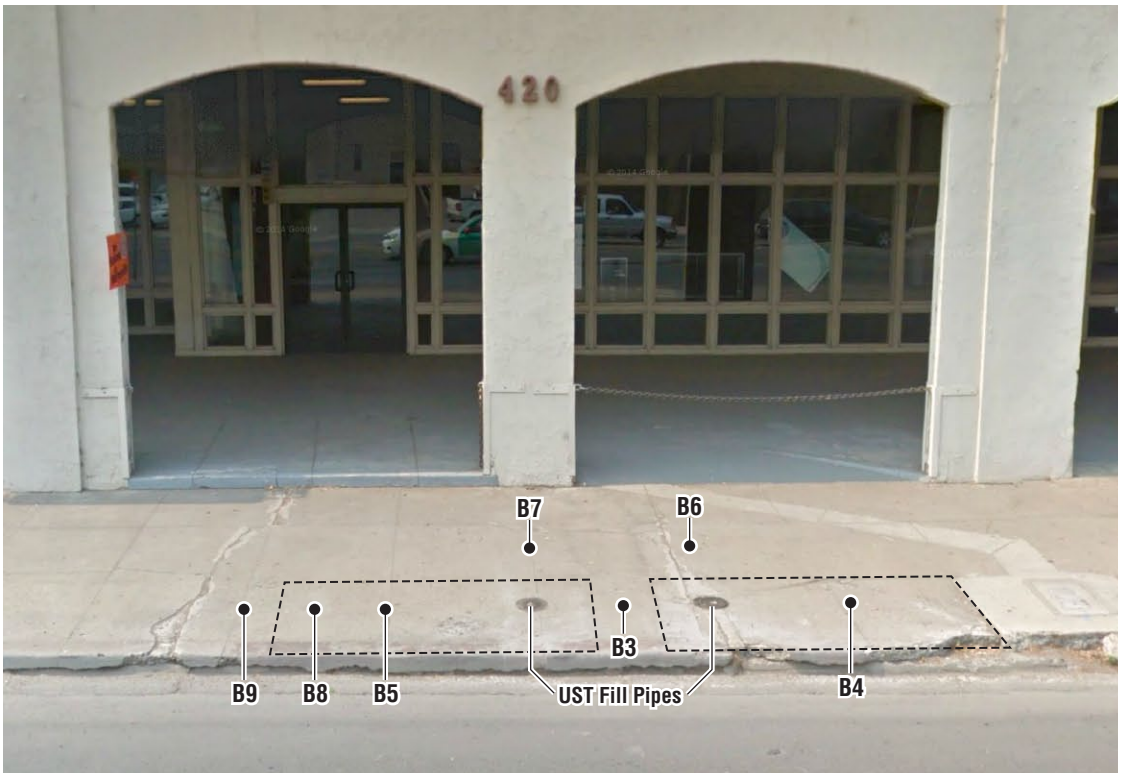

Photo No. 3 View of ground surface above abandoned USTs beneath the western sidewalk of State Route 70, approximately 130 feet south of the intersection of 5th Street and State Route 70. Approximate location of USTs and soil borings are also shown.

Photo No. 4 Sticker labeled “Flying A Ethyl Gasoline” found inside the abandoned UST fill pipe.

PHOTOS NO. 3 & 4

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Task Order No. 45	January 2015

Photo No. 5 Sticker labeled “76 Gasoline - A Union Product” found inside the abandoned UST fill pipe.

Photo No. 6 View of rusted metal piping encountered at boring B3.

PHOTOS NO. 5 & 6

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Task Order No. 45	January 2015

TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS
MARYSVILLE HIGHWAY IMPROVEMENT PROJECT
STATE ROUTE 70 BETWEEN 4TH AND 5TH STREETS
MARYSVILLE, YUBA COUNTY, CALIFORNIA

SAMPLE ID	DATE	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (µg/kg)	Toulene (µg/kg)	Ethylbenzene (µg/kg)	Total Xylenes (µg/kg)	MTBE (µg/kg)	Naphthalene (µg/kg)	SVOCs (µg/kg)
Abanonded UST Southwest Corner of SR-70 and 5th Street											
B1-4.5	12/17/2014	300	340	10	<250	<250	<250	<500	<250	---	---
B1-7.5	12/17/2014	2,000	---	---	<250	<250	<250	<500	<250	1,100	1,100 [1]
B1-11.5	12/17/2014	1,400	86	4.7	<250	<250	2,300	<500	<250	---	---
B1-15.5	12/17/2014	1,100	---	---	<250	<250	<250	<500	<250	---	---
B1-19.5	12/17/2014	150	6.1	2.5	<250	<250	<250	<500	<250	---	---
B2-4.5	12/17/2014	<1.0	2.1	2.2	<5.0	<5.0	<5.0	<10	<5.0	---	---
B2-7.5	12/17/2014	820	210	10	<250	<250	600	2,000	<250	<330	ND
B2-11.5	12/17/2014	1,600	---	---	<250	<250	<250	<500	<250	---	---
B2-14.5	12/17/2014	540	98	5.5	<250	<250	<250	<500	<250	---	---
Abandoned USTs 130 Feet South of Southwest Corner of SR-70 and 5th Street											
B6-4.5	12/17/2014	<1.0	---	---	<5.0	<5.0	<5.0	<10	<5.0	---	---
B6-6	12/17/2014	510	570	<20	<250	<250	<250	<500	<250	<330	ND
B6-7.5	12/17/2014	<1.0	1.5	1.8	<5.0	<5.0	<5.0	<10	<5.0	---	---
B6-11.5	12/17/2014	<1.0	---	---	<5.0	<5.0	<5.0	<10	<5.0	---	---
B6-14.5	12/17/2014	540	120	13	<250	<250	850	<500	<250	<330	ND
B7-6	12/17/2014	550	25	4.5	<250	<250	<250	<500	<250	---	---
B7-7.5	12/17/2014	<1.0	---	---	<5.0	<5.0	<5.0	<10	<5.0	---	---
B7-11.5	12/17/2014	<1.0	1.6	1.5	<5.0	<5.0	<5.0	<10	<5.0	---	---
B7-14.5	12/17/2014	1,600	380	7.9	1,200	1,300	5,500	28,000	<250	---	---
LTCP - Table 1											
0-5 feet											
Residential		NE	NE	NE	1,900	NE	21,000	NE	NE	9,700	NE
Commercial		NE	NE	NE	8,200	NE	89,000	NE	NE	45,000	NE
5-10 feet											
Residential		NE	NE	NE	2,800	NE	32,000	NE	NE	9,700	NE
Commercial		NE	NE	NE	12,000	NE	134,000	NE	NE	45,000	NE
0-10 Feet											
Utility Worker		NE	NE	NE	14,000	NE	314,000	NE	NE	219,000	NE

Notes:

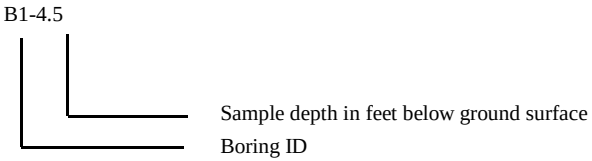
GRO = Gasoline-range organics
DRO = Diesel-range organics
ORO = Oil-range organics
MTBE = methyl tert-butyl ether
SVOCs = semi-volatile organic compounds
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
ND, < = not detected above laboratory reporting limit
NE = Not established
[1] = 2-methyl-naphthalene was reported at 1,100µg/kg; all other analytes were reported as non-detec

LTCP - Table 1 = Low-Threat Closure Policy Table 1 - Concentration of Petroleum Constituents in soil that will have no significant risk of adversely affecting human health

TABLE 2
SUMMARY OF SOIL ANALYTICAL DATA - TITLE 22 METALS
MARYSVILLE HIGHWAY IMPROVEMENT PROJECT
STATE ROUTE 70 BETWEEN 4TH AND 5TH STREETS
MARYSVILLE, YUBA COUNTY, CALIFORNIA

ANALYTE	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
SAMPLE ID	Results reported in milligrams per kilogram																
B1-4.5	<2.0	4.6	120	<1.0	<1.0	34	9.1	29	5.8	<1.0	28	<1.0	<1.0	<1.0	47	27	<0.10
B6-4.5	<2.0	4.7	94	<1.0	<1.0	36	8.9	27	5.3	<1.0	29	<1.0	<1.0	<1.0	57	27	<0.10
TTLC	500	500	10,000	75	100	2,500 / 500 [1]	8,000	2,500	1,000	3,500	2,000	100	500	700	2,400	5,000	20
10 x STLC	150	50	1,000	7.5	10	50 / 50 [1]	800	250	50	3,500	200	10	50	70	240	2,500	2.0
Published Background [2]	0.60	3.5	509	1.28	0.36	122	14.9	28.7	23.9	1.3	57	0.058	0.80	0.56	112	149	0.26

Notes:



< = Less than laboratory reporting limits

TTLC = California Code of Regulations, Title 22 Total Threshold Limit Concentration

STLC = California Code of Regulations, Title 22 Soluble Threshold Limit Concentration in milligrams per liter

10 x STLC = Ten times the Soluble Threshold Limit Concentration

mg/kg = milligrans per kilogram

[1] = Chromium III / Chromium VI

[2] = Background: Mean Concentration - Background Concentrations of Trace and Major Elements in California Soils, U.C. Calif., March 1996

APPENDIX A

ADVANCED GEOLOGICAL SERVICES

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925 (808-8965)

April 7, 2014

Mr. John Juhrend, PE, CEG, CEM
Principal / Senior Engineer
GEOCON Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, California 95744

Subject: **Geophysical Investigation Results**
Underground Storage Tank (UST) Delineation
420 E Street and SW Corner of 5th St. and E St.
Marysville, California

Mr. Juhrend-

1.0 INTRODUCTION

This letter presents the findings of Advanced Geological Services, Inc. (AGS) geophysical investigation to delineate the extent of underground storage tanks (UTSs) that were encountered at two locations along SR-70 (E Street) in Marysville, California (Figure 1). One location is on the southwest corner of 5th and E Street and the other location is at 420 E Street, about 120 feet south of the first location. For convenience in this report, the locations are designated as the North Site, and South site, respectively.

Figure 1 – Site Locations in Marysville, California

The field work was performed on March 18, 2014 by AGS geophysicist Roark Smith, who used a Geonics EM61 electromagnetic (EM) metal-detector with digital recording capabilities, a Fisher M-Scope metal detector (MD), and a GSSI SIR-3000 ground penetrating radar (GPR) system. Briefly, the EM61 and M-Scope instruments were used to look for buried metal areas indicative of a UST, and GPR was used to obtain graphical profiles of the subsurface to better identify buried metal objects detected by the EM61 survey. In general, EM61 surveying is an important part of a UST investigation because it provides a deeper investigation depth than GPR, which can be as shallow as two feet at some sites. Depending on their size, the EM61can detect objects as deep as 10 feet; however, the EM61 can detect only metallic objects and is subject to interference from vehicles, buildings, and other above-ground metallic objects.

2.0 RESULTS SUMMARY

North Site- A UST was encountered at a depth of about four feet during Geocon's direct-push (DP) sampling activities at the North site. AGS identified a 4.5- by 7.0-foot area of elevated, metal-indicating EM61 response centered on the DP sample location. The elevated response may be associated with a UST; however, because the EM61 data were extremely noisy due to interference from numerous underground utilities and surface metal objects, the EM61 survey did not provide a definitive result regarding the extent of the UST. GPR achieved a signal penetration depth of about three feet; accordingly, the UST was not detected with GPR because it is too deeply buried to be imaged. North Site results are presented on Figure 5.

South Site- The presence of UST(s) at the South Site is indicated by two shallow pipe-wells imbedded in the sidewalk along E Street. Removing the metal plates ("lids") covering each well revealed capped vertical pipes protruding from the ground, and one of the wells contained a placard reading "Associated Flying A Gasoline." EM61 data show a single 5- by 9-foot area of elevated response associated with the two pipe-wells; accordingly, the EM61 data suggest that only one UST is present at this location. It's possible that the two pipe-wells house UST vent and fill pipes, respectively. GPR achieved a signal penetration depth of about three feet; accordingly, the UST was not detected with GPR because it is too deeply buried to be imaged. South Site results are presented on Figure 6.

3.0 SITE DESCRIPTIONS

The investigation was performed at two sites along the west side of SR-70 (E Street) between 4th and 5th Streets. For convenience, they are referred to as the "North Site" and the "South Site." The North Site is on the southwest corner of 5th and E Street, where AGS understands that an underground storage tank UST was encountered during Geocon's recent direct-push (DP) sampling activities. AGS investigated an approximately 20- by 30-foot area centered on Geocon's direct-push sample location. The area was crowded with numerous geophysical noise sources that included metal bollards and traffic signal poles, a metal storm drain grate, and three small pull-boxes for electrical cables and traffic signal control wiring (Figure 5).

Figure 2 – UST fill/vent pipe wells at 420 E Street

The South Site is at 420 E Street, approximately 120 feet south of the North Site (Figure 6). The presence of UST(s) at this location is indicated by two shallow pipe-wells imbedded in the sidewalk (Figure 2, right). Removing the metal plates ("lids") covering each well revealed a capped vertical pipe protruding from the ground, and one of the wells contained a placard reading "Associated Flying A Gasoline" (Figure 3, right).


Figure 3 – Placard found in UST fill port at 420 E Street (South Site).

4.0 GEOPHYSICAL METHODS AND EQUIPMENT

The geophysical investigation was performed using the following

geophysical methods:

- Time-domain Electromagnetics (EM), using a Geonics EM61
- Electromagnetic metal detection (MD), using a Fisher TW-6 M-Scope
- Ground Penetrating Radar (GPR), GSSI SIR-3000 system connected to a 400-MHz antenna

Time-Domain Electromagnetics (EM) using a Geonics EM61
The EM61 is a high-sensitivity, high-resolution recording metal detector commonly used to search for buried metal objects, particularly at developed sites cluttered with surface obstructions such as buildings, parked cars, chain-link fences, and buried utilities. Typical targets for EM61 surveys include underground storage tanks (USTs), buried drums, reinforced concrete foundation remnants, buried refuse (which nearly always includes metallic debris), and individual metallic debris items. The EM61 operates by transmitting a pulsed magnetic field, which causes (induces) small electrical currents (eddy currents) to flow through metallic objects near (below) the instrument. The strength of these eddy currents is measured by the EM61 receiver coil at a relatively long time after the magnetic field pulse subsides. This delayed measurement technique produces a reading (in millivolts) that responds strongly to metal but very weakly to the electrical properties of the surrounding soil, thus making the EM61 a high-sensitivity metal detector. The EM61 employs a one-meter-wide square coil, and its sensitivity can be enhanced by the deployment of a second receiver coil above the first; the second coil response can be used to reduce interference caused by nearby power lines and cultural objects such as vehicles and metal fences.

Electromagnetic Metal Detecting using the Fisher M-Scope
AGS uses the M-Scope to rapidly scan for localized, shallowly-buried metal masses (e.g., a buried vault lid, manhole cover, metallic trash). Briefly, the M-Scope comprises a pair of wire coils (transmitter and receiver coils) connected by a short metal staff; the receiver coil is first "tuned" to a null position with respect to the magnetic field emanating from the transmitter coil. When the M-Scope is held near a metal object, the magnetic field becomes disrupted or distorted and the system is thrown "out of tune." The M-Scope is designed to emit an audible tone when it is out of tune, thus signaling the presence of a nearby metal object. However, the M-Scope has a limited investigation depth (about 3 feet bgs) and is not effective near surface metal objects; in addition, because the M-Scope responds to changes in soil conductivity, its sensitivity setting must be reduced in electrically conductive (e.g., moist, fine-grained) soil, which results in a corresponding reduction in the instrument's effectiveness.

Ground Penetrating Radar (GPR)
GPR uses radar technology to produce a graphical profile of the subsurface that shows soil layering and images of buried objects. GPR systems typically use a single transceiving antenna (one that both transmits and receives the radar signal) that is dragged along the ground surface. The antenna emits a radar pulse into the ground; some of the radar energy reflects off of interfaces between materials with different electrical properties (e.g., soil and a UST) and returns to the surface where it is detected by the antenna and sent via the cable to a separate control unit where it is amplified and displayed on a computer screen as a vertical "wiggle trace," which is a plot of the strength (amplitude) of the received GPR signal (i.e., the reflection) over time. Although the vertical scale of a GPR profile is usually

considered as depth, it actually measures the travel time of the radar pulse from the surface to a reflecting interface and back to the surface.

A subsurface profile is built as the antenna is pulled along the survey line and successive wiggle traces are recorded. GPR data are usually displayed as an array of closely-spaced traces; this procedure produces an image of the subsurface as the reflections (wiggles) on adjacent traces merge into coherent patterns. Soil layer boundaries appear as laterally continuous horizontal bands across a GPR profile. Buried objects appear as localized, high-amplitude (dark) reflection patterns. Buried pipes and USTs exhibit a characteristic "upside down U" hyperbolic pattern, which allows them to be readily identified on a GPR record. Burial depths are determined by using calibrating GPR profiles with images objects buried at known depths. Culverts and storm drain pipelines observed in drop inlets are often used for this purpose.

5.0 FIELD PROCEDURES

AGS first prepared a detailed map of each site so the investigation findings and the locations of the geophysical survey lines could be documented. The maps also showed site features that could produce geophysical noise so their presence and locations would be known when the geophysical data were examined for UST indications. The maps were prepared by laying down fiberglass tape measures in a grid pattern across each site and plotting the locations of significant site features, such as curb lines, building faces, metal poles, on grid paper (at scale of 1-inch equals 5 feet). AGS then performed a GPR survey by hand-pushing the cart-mounted GPR system back-and-forth across each site along a grid of lines spaced approximately three feet apart. AGS took special care to scan across the Geocon direct-push sample location where the UST was encountered and also across the UST pipe-wells to insure that GPR profiles at the UST locations were obtained. AGS plotted the starting and ending points of each GPR line on the site map as the GPR survey progressed. Next, AGS performed the EM61 survey by wheeling the EM61 instrument back-and-forth across the site along north-south survey lines spaced approximately three feet apart. The EM61 readings were obtained by pressing the instrument's "demand-read" button every 2.5 feet along each survey line, and the readings were recorded by the EM61 data logger. As with the GPR survey, AGS plotted the starting and ending points of each line on the site map as the EM61 progressed. After the recording the EM61 data, AGS then scanned the site in "reconnaissance mode" to look for real-time UST indications. In reconnaissance mode, the EM61 instrument emits an audible tone in when the coils pass near metal objects, but no data are recorded. AGS also scanned each site with the Fisher M-Scope to look for buried metal indications.

6.0 DATA PROCESSING AND ANALYSIS

The M-Scope and GPR data were analyzed in the field as the investigation progressed. The M-Scope is designed to produce an audible tone when held near a metallic object; a detected object's location is then pinpointed by adjusting the instrument's sensitivity and monitoring the instrument readout to determine the "peak signal" location. For the GPR survey, AGS monitored the GPR data in the field to look for definitive

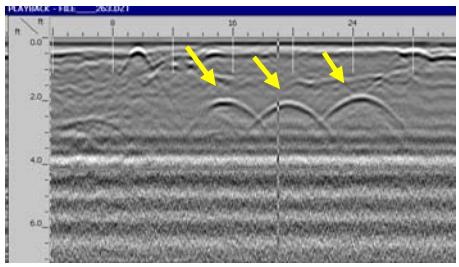


Figure 4 – Example images of three USTs buried about 2 feet bgs on the NE corner of 4th and E St

"upside-down U" reflection patterns, which would indicate a UST with near certainty. For reference, example USTs images from another Marysville location nearby (not part of this investigation) are presented on Figure 4, above. AGS took special care to obtain GPR data across suspected UST locations as indicated by the pipe-wells direct-push findings. AGS then re-examined the GPR data upon returning to the office to look for weaker images that may have gone unnoticed in the field.

EM61 data processing was done using the GEOSOFT Oasis montaj earth science software system. A GEOSOFT kriging algorithm was used to prepare color-filled contour maps showing EM61 response variations (in millivolts) across the site (Figures 5 and 6). As part of the analysis, AGS looked for high-amplitude responses not readily attributable to known metallic site features, such as vehicles and metal debris. Such responses are considered "anomalies" and are attributed to subsurface source bodies, which may include USTs, buried utilities, reinforced concrete foundations, and miscellaneous metallic debris. On the color contour maps, anomalies appear as "hot" (orange, red, and pink) colors representing areas with elevated EM61 measurements indicative of metallic objects.

Because the EM61 was designed to produce a positive signal peak at the center of the metallic source body, it tends to produce anomalies with a shape and extent that approximates the footprint of the metal source object. Accordingly, AGS looked for rectangular anomalies with a footprint corresponding to common UST dimensions, although it is worth noting that as part of the interpretation process AGS considers all buried metal anomalies and endeavors to attribute each one to a source object(s). Anomaly amplitudes associated with USTs and similarly-sized metallic substructures depend on burial depth, but they are typically 200 millivolts (mV) or greater.

AGS incorporated the site map into the EM61 contour map so that responses associated with surface metal objects and underground utilities could be identified and disregarded from consideration as a possible UST indication. As a further aid to the analysis, data profiles for each survey transect were prepared and inspected. The profiles are especially useful for assessing anomaly amplitudes and for identifying bad data caused by, say, a loose connection within the EM system or other type of equipment malfunction.

7.0 RESULTS

Investigation results are shown on Figures 5 and 6. Figure 5 is a map of the North Site investigation area that shows the EM61 and GPR survey line locations; the map also presents the EM61 survey results as a color-filled contour map. Similarly, Figure 6 is a map of the South Site investigation area that shows the EM61 and GPR survey line locations and the EM61 survey results.

North Site- A UST was encountered at a depth of about four feet during Geocon's direct-push (DP) sampling activities at the North site. AGS identified a 4.5- by 7.0-foot area of elevated, metal-indicating EM61 response centered on the DP sample location. The elevated response may be associated with a UST; however, because the EM61 data were extremely noisy due to interference from numerous underground utilities and surface metal objects, the EM61 survey did not provide a definitive result regarding the extent of the UST. GPR achieved a signal penetration depth of about three feet; accordingly, the UST was not detected with GPR because it is too deeply buried to be imaged. North

Site results are presented on Figure 5.

South Site- South Site- The presence of UST(s) at the South Site is indicated by two shallow pipe-wells imbedded in the sidewalk along E Street. Removing the metal plates ("lids") covering each well revealed capped vertical pipes protruding from the ground, and one of the wells contained a placard reading "Associated Flying A Gasoline." EM61 data show a single 5- by 9-foot area of elevated response associated with the two pipe-wells; accordingly, the EM61 data suggest that only one UST is present at this location. It's possible that the two pipe-wells house UST vent and fill pipes, respectively. GPR achieved a signal penetration depth of about three feet; accordingly, the UST was not detected with GPR because it is too deeply buried to be imaged. The overall high readings observed at the South Site indicate that other buried metal objects may also be present. South Site results are presented on Figure 6.

8.0 LIMITATIONS OF GEOPHYSICAL LOCATING METHODS

In general, a geophysical method's limitations for detecting a particular target are related to the target's size, burial depth, the amount of contrast in material properties between the target and surrounding material, and finally, the amount of interference from surrounding site features. For a target to be detected it must have sufficient size to reflect or otherwise disturb some the incoming energy used for detection. It also must have enough contrast with the surrounding material to reflect or otherwise disturb enough of the incoming energy so as to be detected. And, finally, it can't be buried so deeply that the reflected/disturbed energy is so dissipated that it is too weak to be detected when it returns to the surface. Weak energy returns during geophysical investigations are further exacerbated by ambient noise like that produced by natural and cultural features, such as utilities, fences, parked vehicles, vegetative cover, and debris.

In general, metal USTs make good targets for geophysical investigations because the electrical properties of metal contrast greatly with those of the surrounding soil or fill material; however, UST investigations are often complicated by unfavorable soil conditions and by interference from surface or near-surface metallic objects such a vehicles, reinforced concrete pavement, and buried utilities, sometimes to the degree that little or no useful subsurface information can be obtained. As stated above and shown on Figure 5, the North Site contained numerous surface metal objects and a number of buried utilities that produced interfering noise in the EM61 geophysical data. In addition, the soil conditions limited the GPR signal penetration to approximately 3 feet and no UST images were observed on the GPR records. Accordingly, the geophysical investigation did not provide any additional information about the UST at the North Site. Although the South Site had the same GPR limitations as the North Site, it was relatively free of surface metal and buried utilities so that a coherent EM61 anomaly, one that appears to be associated with a UST, could be identified.

9.0 CLOSING

All geophysical data and field notes collected for this investigation will be archived at the AGS office. The data collection and interpretation methods used in this investigation are consistent with standard practices applied to similar geophysical investigations. The correlation of geophysical responses with probable subsurface features is based on the past results of similar surveys although it is possible that

some variation could exist at this site. Due to the nature of geophysical data, no guarantees can be made or implied regarding the targets identified or the presence or absence of additional objects or targets.

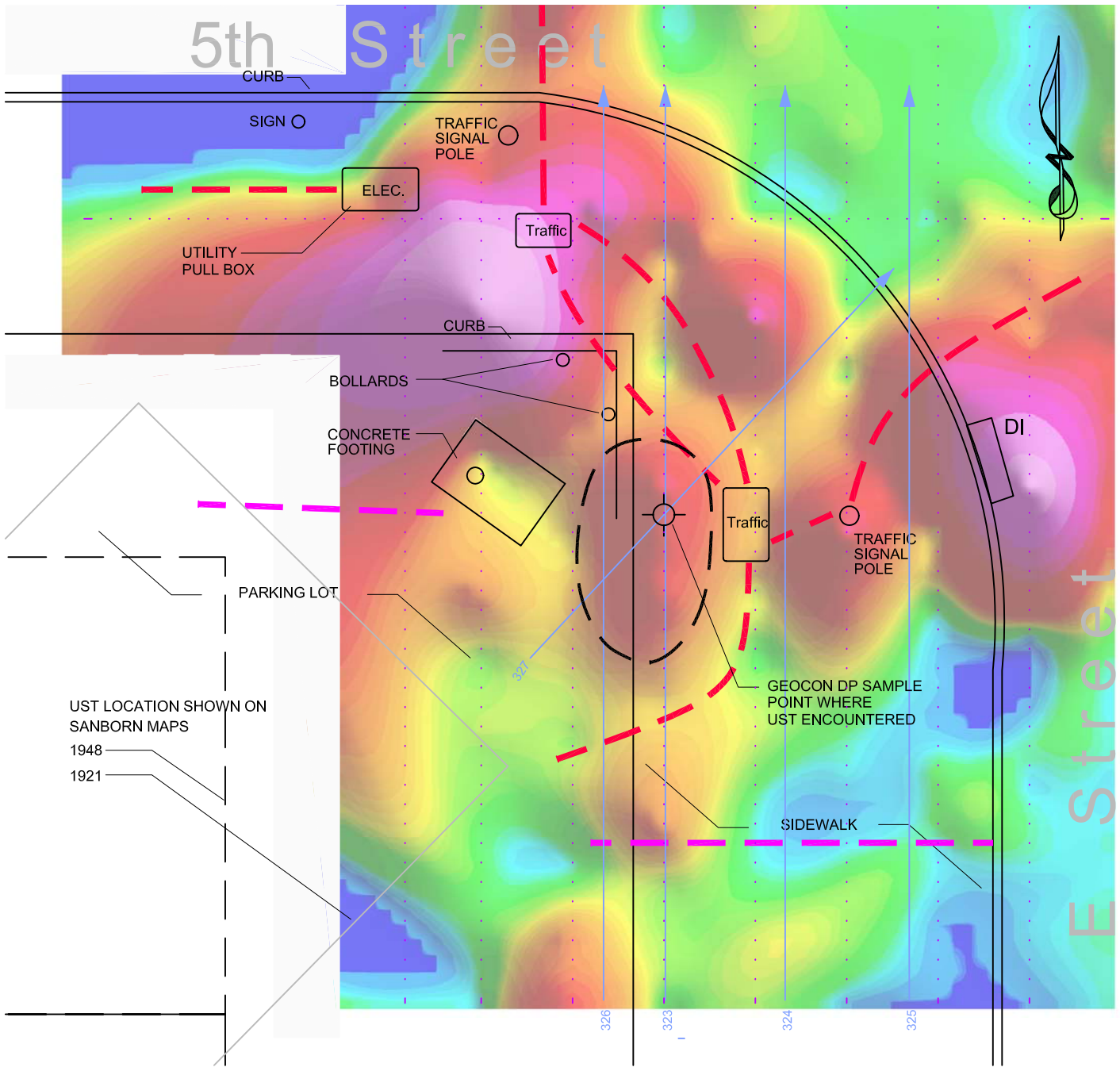
We appreciated working for you on this project and hope to work with you again. If you have any questions, I can be reached at (925) 808-8965 or Rsmith@Advancedgeo.com.

Respectfully,

Roark W. Smith, GP 987
Senior Geophysicist
Advanced Geological Services

Figures:

Figure 1	Site Location Map (imbedded in Report text)
Figure 2	Photograph of UST Fill/Vent pipe wells at 420 E Street, South Site (imbedded)
Figure 3	Photograph of placard found in UST Fill/Vent Pipe well at 420 E Street, South Site (imbedded)
Figure 4	Example GPR image of USTs at 4th and E Street, Marysville, Not part of this Investigation (imbedded)
Figure 5	Geophysical Investigation Results- 5th and E Street (North Site)
Figure 6	Geophysical Investigation Results- 420 E Street (South Site)



EXPLANATION

POSSIBLE UST RESPONSE AREA

GPR LINE

EM61 LINE

BURIED UTILITIES DETECTED:

ELECTRICAL

UNKNOWN

mV

0 1 1 21 43 59 76 91 112 133 158 190 231 271 319 375 450 560 760 1242

Metal Area

EM61 RESPONSE

0 5 FT 10

ADVANCED GEOLOGICAL SERVICES

GEOCON

1605 School Street
Suite 4
Moraga, CA 94556
(925) 808-8965

Geophysical UST Investigation Results
SW Corner 5th and E Street (North Site)
Marysville, California

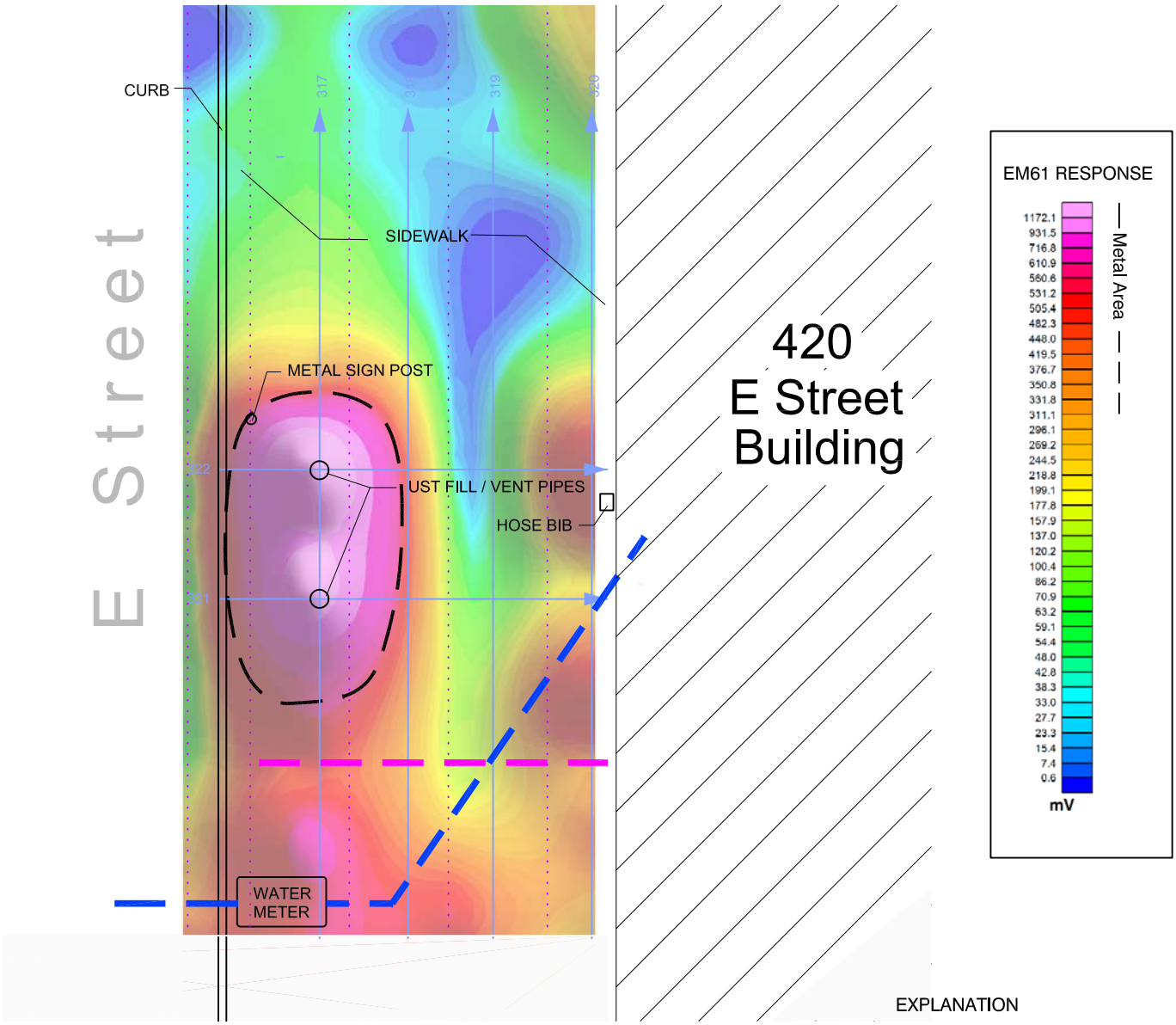
LOCATION: Marysville, California

CLIENT: Geocon Consultants,Inc.

PROJECT #: 14-014-1CA

DATE: Mar 24, 2014 DRAWN BY: R. SMITH

FIGURE 5



EXPLANATION

EM61 ANOMALY INDICATIVE OF UST

GPR LINE

EM61 LINE

BURIED UTILITIES DETECTED:

WATER

UNKNOWN

0 5 FT 10

ADVANCED GEOLOGICAL SERVICES

GEOCON

1605 School Street
Suite 4
Moraga, CA 94556
(925) 808-8965

Geophysical UST Investigation Results
420 E Street (South Site)
Marysville, California

LOCATION: Marysville, California

CLIENT: Geocon Consultants,Inc.

PROJECT #: 14-014-1CA

DATE: Mar 24, 2014

DRAWN BY: R. SMITH

FIGURE 6

APPENDIX B

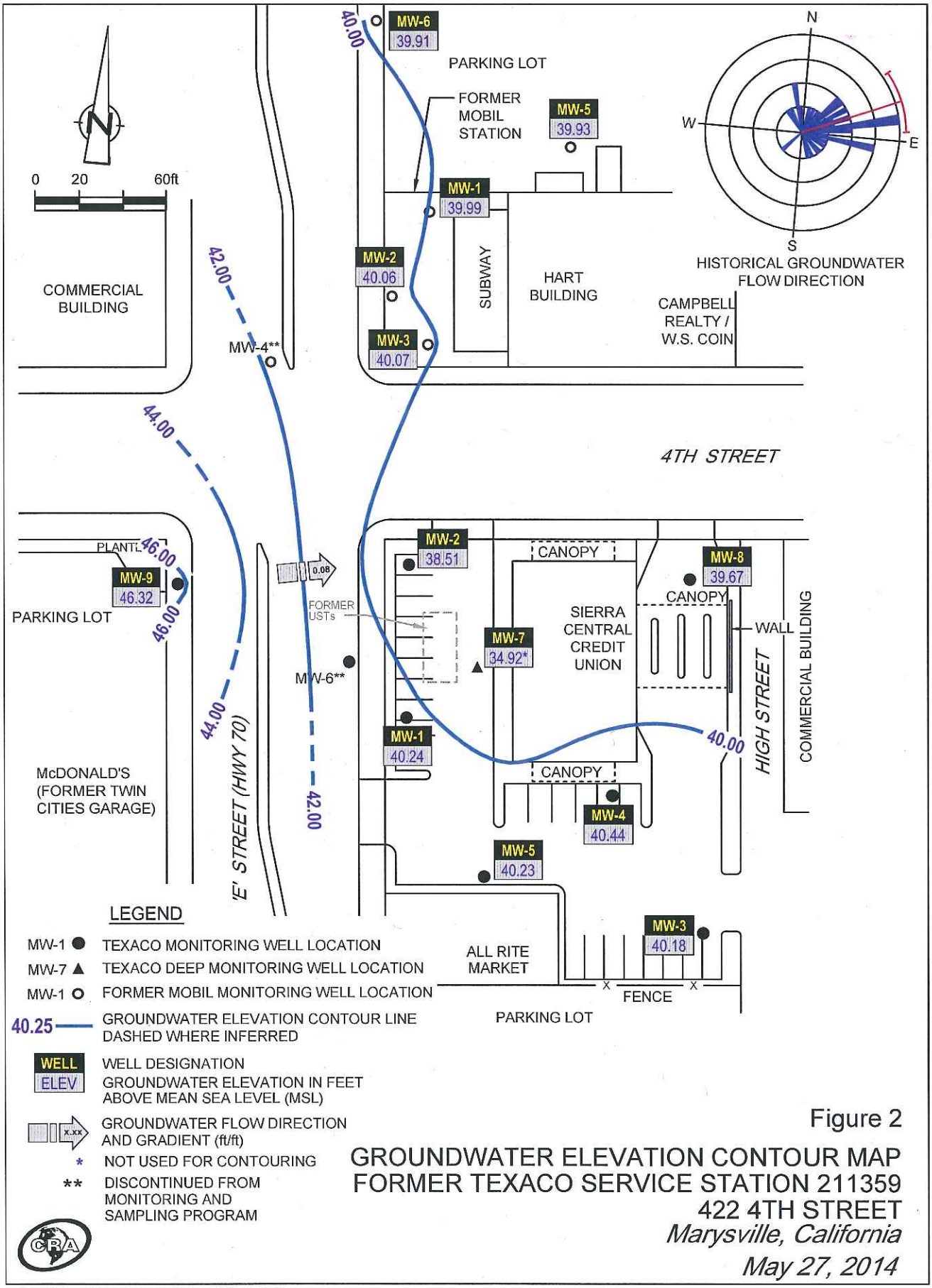


Figure 2

GROUNDWATER ELEVATION CONTOUR MAP
FORMER TEXACO SERVICE STATION 211359
422 4TH STREET
Marysville, California

May 27, 2014

311895-95(021)GN-EM002 AUG 1/2014

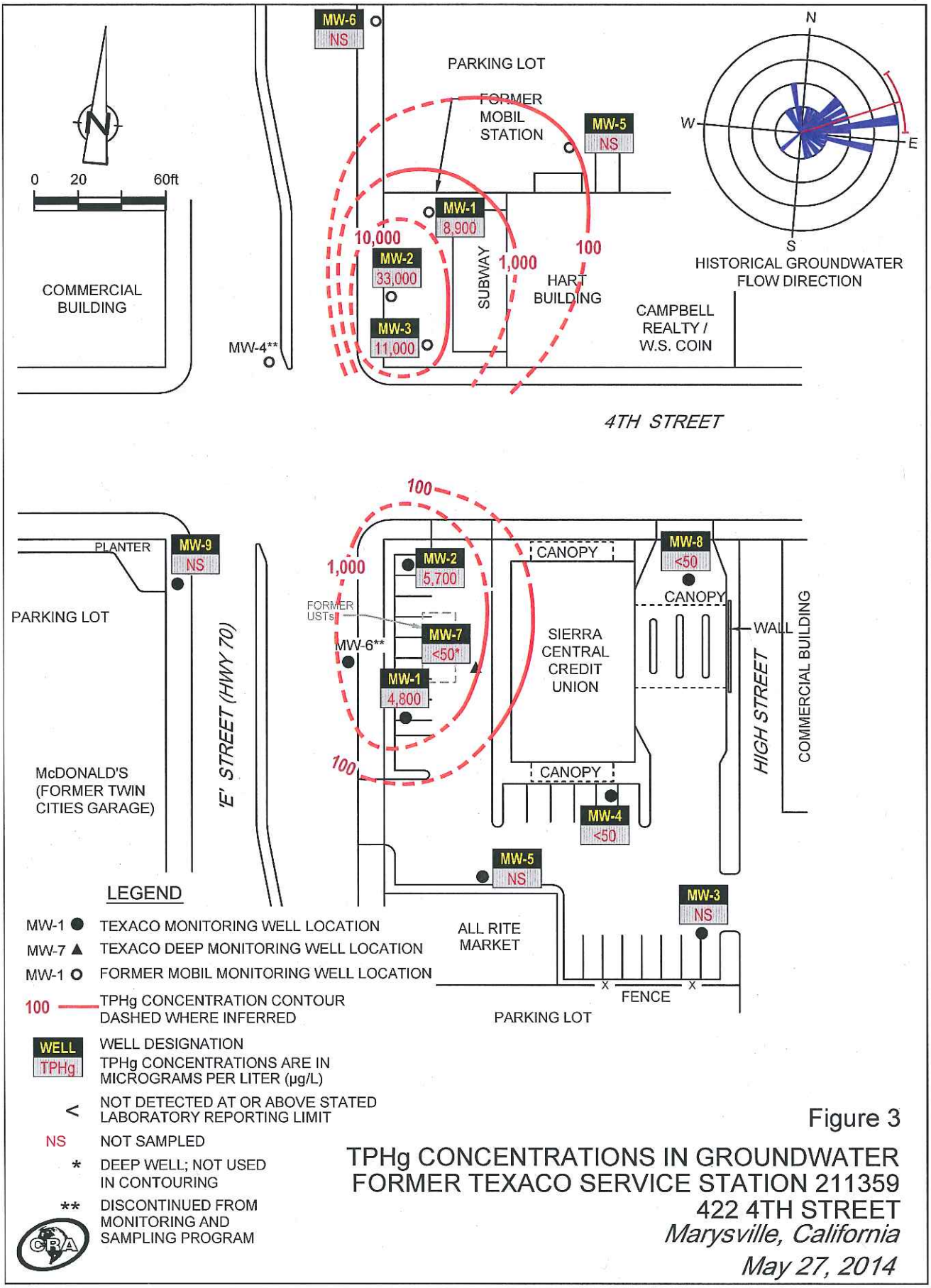


Figure 3

TPHg CONCENTRATIONS IN GROUNDWATER
FORMER TEXACO SERVICE STATION 211359
422 4TH STREET
Marysville, California
May 27, 2014

311895-95(021)GN-EM003 AUG 1/2014

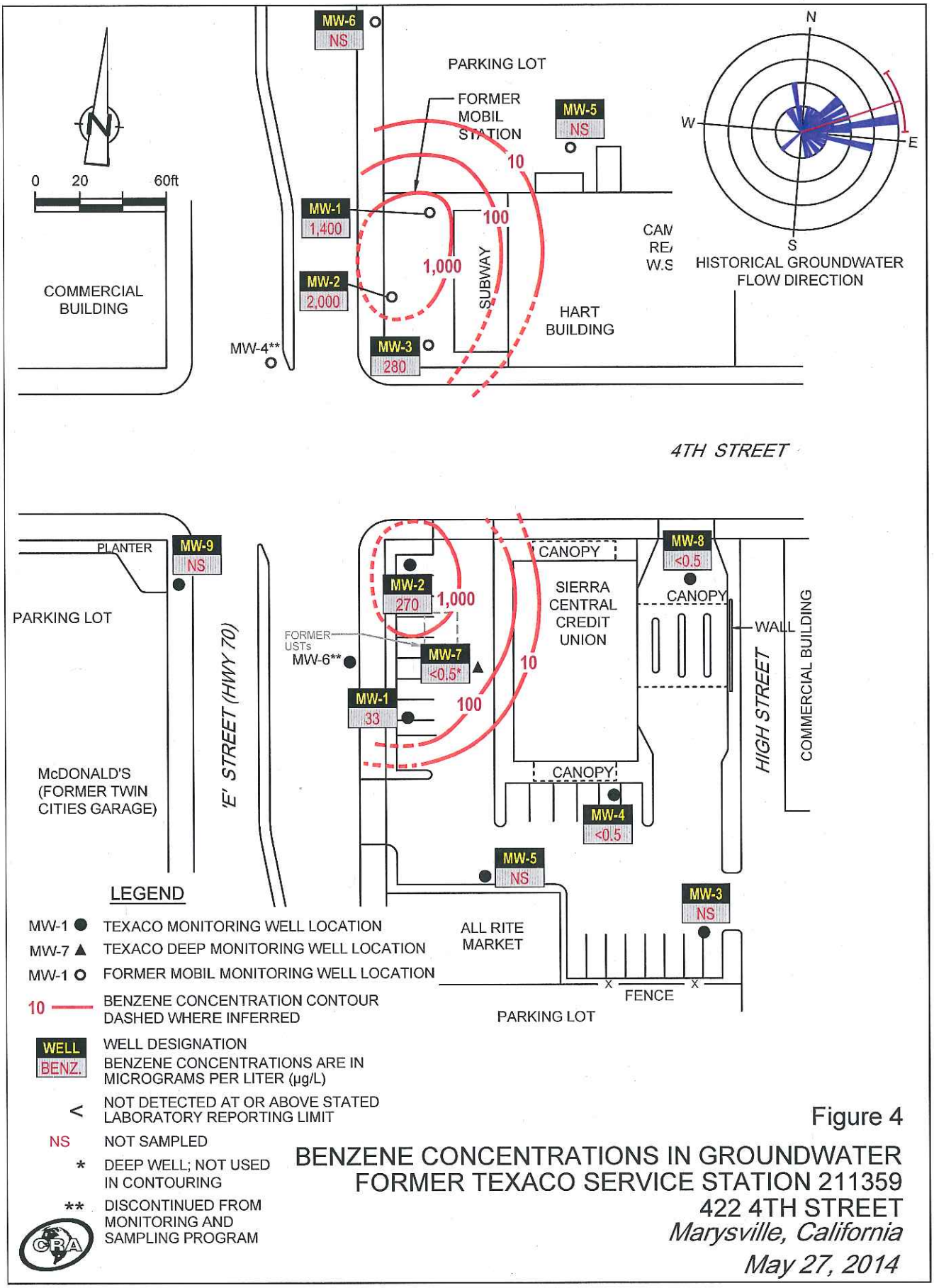


Figure 4

BENZENE CONCENTRATIONS IN GROUNDWATER
FORMER TEXACO SERVICE STATION 211359
422 4TH STREET
Marysville, California
May 27, 2014

311895-95(021)GN-EM004 AUG 1/2014

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211359
422 4TH STREET
MARYSVILLE, CALIFORNIA

					HYDROCARBONS	PRIMARY VOCS				
Location	*Date*	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Naphthalene*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-1	11/22/2010	62.19	20.58	41.61	3,600	26	2	1	4	-
MW-1	05/11/2011	62.19	15.60	46.59	9,500	690	150	220	540	-
MW-1	11/16/2011	62.19	18.84	43.35	2,400	18	2	0.8	3	-
MW-1	05/24/2012	62.19	18.08	44.11	10,000	77	94	61	1,100	-
MW-1	11/20/2012	62.19	20.43	41.76	6,100	200	27	8	30	-
MW-1	02/21/2013	62.19	18.68	43.51	7,200	340	53	85	120	320
MW-1	05/21/2013	62.19	19.45	42.74	5,200	40	11	2	25	130
MW-1	09/19/2013	62.19	21.73	40.46	4,700	53	15	4	19	200
MW-1	11/26/2013	62.19	22.95	39.24	6,300	42	12	7	23	310
MW-1	**05/27/2014**	**62.19**	**21.95**	**40.24**	**4,800**	**33**	**9**	**2**	**17**	**120**
MW-2	11/22/2010	62.42	20.85	41.57	4,200	89	33	19	79	-
MW-2	05/11/2011	62.42	15.81	46.61	1,700	28	2	1	5	-
MW-2	11/16/2011	62.42	19.11	43.31	2,600	39	9	5	17	-
MW-2	05/24/2012	62.42	18.33	44.09	1,800	49	11	8	20	-
MW-2	11/20/2012	62.42	20.59	41.83	5,100	190	34	29	71	-
MW-2	02/21/2013	62.42	18.89	43.53	4,700	220	64	22	96	61
MW-2	05/21/2013	62.42	19.71	42.71	5,500	190	47	23	81	66
MW-2	09/19/2013	62.42	22.07	40.35	20,000	2,800	720	500	780	370
MW-2	11/26/2013	62.42	22.20	40.22	13,000	1,100	170	230	410	330
MW-2	**05/27/2014**	**62.42**	**23.91**	**38.51**	**5,700**	**270**	**53**	**91**	**110**	**100**
MW-3	11/22/2010[1]	62.82	21.31	41.51	-	-	-	-	-	-
MW-3	05/11/2011[1]	62.82	16.23	46.59	-	-	-	-	-	-
MW-3	11/16/2011[1]	62.82	19.72	43.10	-	-	-	-	-	-
MW-3	05/24/2012[1]	62.82	19.06	43.76	-	-	-	-	-	-
MW-3	11/20/2012[1]	62.82	21.26	41.56	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211359
422 4TH STREET
MARYSVILLE, CALIFORNIA

					HYDROCARBONS	PRIMARY VOCS				
Location	Date	TOC	DTW	GWE	TPH-GRO	B	T	E	X	Naphthalene
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3	02/21/2013[1]	62.82	19.50	43.32	-	-	-	-	-	-
MW-3	05/21/2013[1]	62.82	20.28	42.54	-	-	-	-	-	-
MW-3	09/19/2013[1]	62.82	22.46	40.36	-	-	-	-	-	-
MW-3	11/26/2013[1]	62.82	22.75	40.07	-	-	-	-	-	-
MW-3	**05/27/2014[1]**	**62.82**	**22.64**	**40.18**	-	-	-	-	-	-
MW-4	11/22/2010[2]	63.10	21.38	41.72	-	-	-	-	-	-
MW-4	05/11/2011	63.10	16.40	46.70	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	11/16/2011[2]	63.10	19.64	43.46	-	-	-	-	-	-
MW-4	05/24/2012	63.10	18.92	44.18	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	11/20/2012[2]	63.10	21.28	41.82	-	-	-	-	-	-
MW-4	02/21/2013	63.10	19.48	43.62	<50	<0.5	<0.5	<0.5	<0.5	<1
MW-4	05/21/2013	63.10	20.22	42.88	<50	<0.5	<0.5	<0.5	<0.5	<1
MW-4	09/19/2013	63.10	22.42	40.68	<50	<0.5	<0.5	<0.5	<0.5	<1
MW-4	11/26/2013	63.10	22.71	40.39	<50	<0.5	<0.5	<0.5	<0.5	<1
MW-4	**05/27/2014**	**63.10**	**22.66**	**40.44**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**
MW-5	11/22/2010[1]	62.95	21.35	41.60	-	-	-	-	-	-
MW-5	05/11/2011[1]	62.95	16.35	46.60	-	-	-	-	-	-
MW-5	11/16/2011[1]	62.95	19.62	43.33	-	-	-	-	-	-
MW-5	05/24/2012[1]	62.95	18.89	44.06	-	-	-	-	-	-
MW-5	11/20/2012[1]	62.95	21.25	41.70	-	-	-	-	-	-
MW-5	02/21/2013[1]	62.95	19.47	43.48	-	-	-	-	-	-
MW-5	05/21/2013[1]	62.95	20.20	42.75	-	-	-	-	-	-
MW-5	09/19/2013[1]	62.95	22.42	40.53	-	-	-	-	-	-
MW-5	11/26/2013[1]	62.95	22.70	40.25	-	-	-	-	-	-
MW-5	**05/27/2014[1]**	**62.95**	**22.72**	**40.23**	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211359
422 4TH STREET
MARYSVILLE, CALIFORNIA

					HYDROCARBONS	PRIMARY VOCS				
Location	Date	TOC	DTW	GWE	TPH-GRO	B	T	E	X	Naphthalene
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-7	11/22/2010	61.90	23.57	38.33	<50	<0.5	<0.5	<0.5	<0.5	-
MW-7	05/11/2011	61.90	19.37	42.53	<50	<0.5	<0.5	<0.5	<0.5	-
MW-7	11/16/2011[1]	61.90	23.03	38.87	-	-	-	-	-	-
MW-7	05/24/2012	61.90	24.88	37.02	<50	<0.5	<0.5	<0.5	<0.5	-
MW-7	11/20/2012[1]	61.90	22.52	39.38	-	-	-	-	-	-
MW-7	02/21/2013	61.90	22.38	39.52	<50	0.8	<0.5	<0.5	<0.5	<1
MW-7	05/21/2013	61.90	24.65	37.25	<50	<0.5	<0.5	<0.5	<0.5	<1
MW-7	09/19/2013	61.90	26.12	35.78	<50	<0.5	<0.5	<0.5	<0.5	<1
MW-7	11/26/2013	61.90	25.38	36.52	<50	<0.5	<0.5	<0.5	<0.5	<1
MW-7	**05/27/2014**	**61.90**	**26.98**	**34.92**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**
MW-8	11/22/2010[2]	62.21	21.20	41.01	-	-	-	-	-	-
MW-8	05/11/2011	62.21	16.25	45.96	<50	<0.5	<0.5	<0.5	<0.5	-
MW-8	11/16/2011[2]	62.21	19.43	42.78	-	-	-	-	-	-
MW-8	05/24/2012	62.21	18.73	43.48	<50	<0.5	<0.5	<0.5	<0.5	-
MW-8	11/20/2012[2]	62.21	21.05	41.16	-	-	-	-	-	-
MW-8	02/21/2013	62.21	19.28	42.93	<50	<0.5	<0.5	<0.5	<0.5	<1
MW-8	05/21/2013	62.21	20.03	42.18	<50	<0.5	<0.5	<0.5	<0.5	<1
MW-8	09/19/2013	62.21	22.30	39.91	<50	<0.5	<0.5	<0.5	<0.5	<1
MW-8	11/26/2013	62.21	22.53	39.68	<50	<0.5	<0.5	<0.5	<0.5	<1
MW-8	**05/27/2014**	**62.21**	**22.54**	**39.67**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1**
MW-9	11/22/2010[1]	62.83	18.07	44.76	-	-	-	-	-	-
MW-9	05/11/2011[1]	62.83	16.15	46.68	-	-	-	-	-	-
MW-9	11/16/2011[1]	62.83	16.52	46.31	-	-	-	-	-	-
MW-9	05/24/2012[1]	62.83	16.13	46.70	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211359
422 4TH STREET
MARYSVILLE, CALIFORNIA

					HYDROCARBONS	PRIMARY VOCS				
Location	*Date*	*TOC*	*DTW*	*GWE*	*TPH-GRO*	*B*	*T*	*E*	*X*	*Naphthalene*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-9	11/20/2012[1]	62.83	19.45	43.38	-	-	-	-	-	-
MW-9	02/21/2013[1]	62.83	19.23	43.60	-	-	-	-	-	-
MW-9	05/21/2013[1]	62.83	16.60	46.23	-	-	-	-	-	-
MW-9	09/19/2013[1]	62.83	18.78	44.05	-	-	-	-	-	-
MW-9	11/26/2013[1]	62.83	19.55	43.28	-	-	-	-	-	-
MW-9	**05/27/2014[1]**	**62.83**	**20.74**	**42.09**	**-**	**-**	**-**	**-**	**-**	**-**
QA	11/22/2010	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	05/11/2011	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	11/16/2011	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	05/24/2012	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	11/20/2012	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	02/21/2013	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	05/21/2013	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	09/19/2013	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	11/26/2013	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	**05/27/2014**	**-**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

ft = Feet

µg/L = Micrograms per liter

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

VOCS = Volatile organic compounds

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER TEXACO SERVICE STATION 211359
422 4TH STREET
MARYSVILLE, CALIFORNIA

					HYDROCARBONS	PRIMARY VOCS				
Location	Date	TOC	DTW	GWE	TPH-GRO	B	T	E	X	Naphthalene
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

B = Benzene

T = Toluene

E = Ethylbenzene

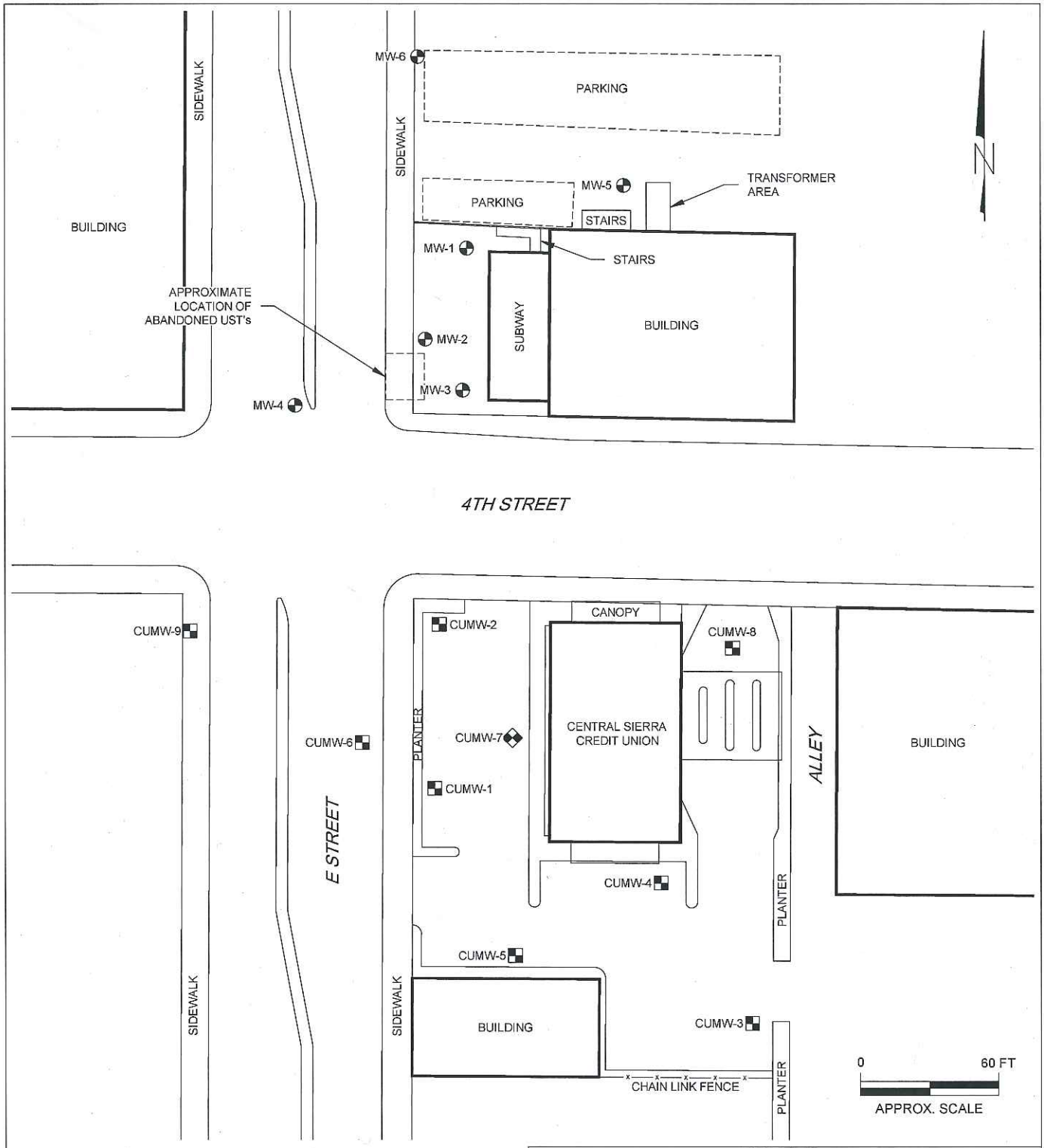
X = Xylenes (Total)

-- = Not available / not applicable

<x = Not detected at or above laboratory method detection limit

1 Monitored only.

2 Sampled annually.



LEGEND:

MW-6	FORMER MOBIL MONITORING WELL (SUBWAY)
CUMW-9	FORMER TEXACO MONITORING WELL (CENTRAL SIERRA CREDIT UNION)
CUMW-7	FORMER TEXACO DEEP MONITORING WELL (CENTRAL SIERRA CREDIT UNION)

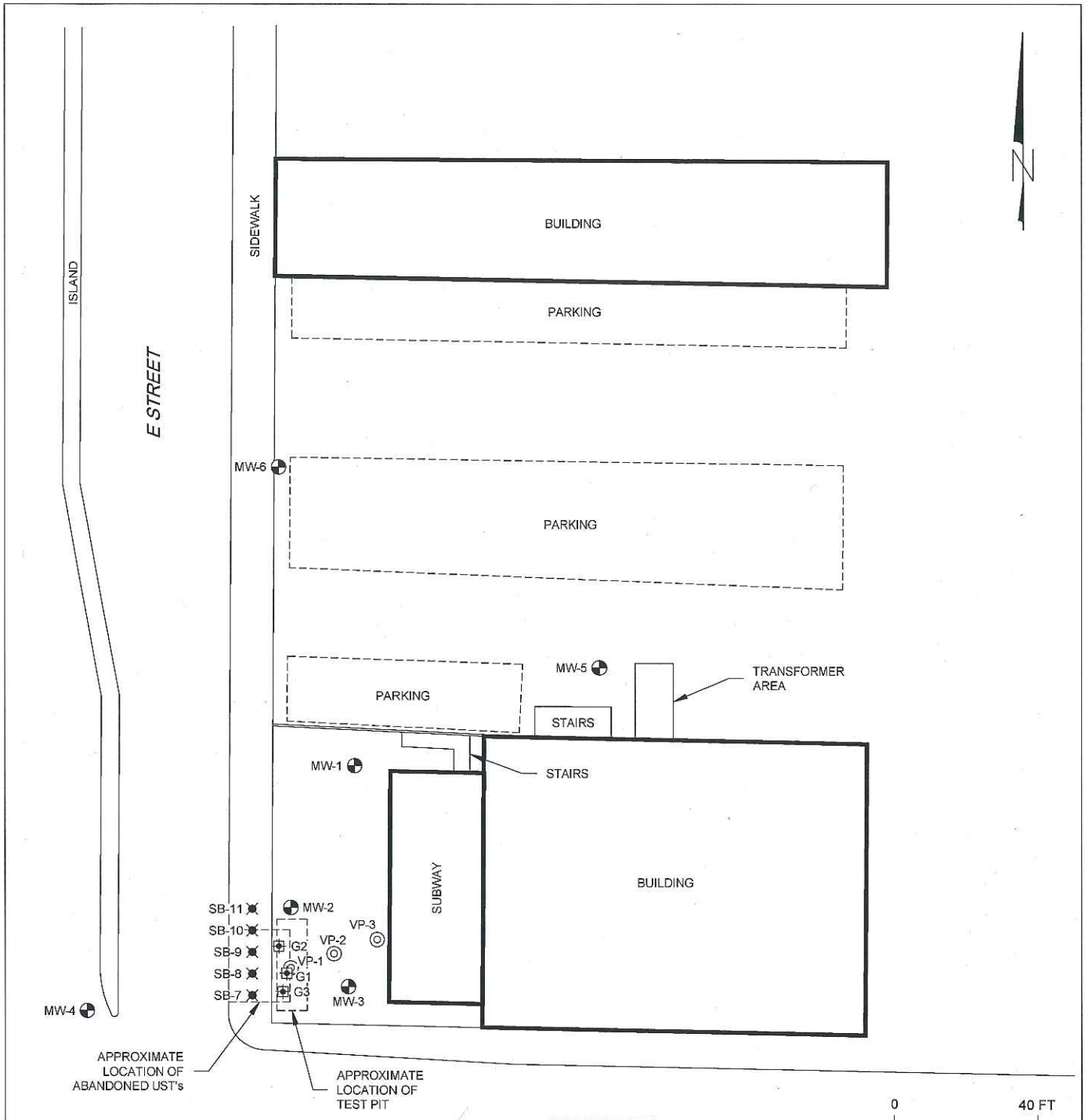
FIGURE 2

SITE AREA MAP

MARYSVILLE PLAZA SUBWAY
(FORMER MOBIL STATION)
401 E. STREET
MARYSVILLE, CALIFORNIA

PROJECT NO. -	DRAWN BY M.L. 8/11/14
FILE NO. -	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



LEGEND:

MW-6	FORMER MOBIL MONITORING WELL (SUBWAY)
CUMW-9	FORMER TEXACO MONITORING WELL (CENTRAL SIERRA CREDIT UNION)
SB-11	SOIL BORING LOCATION
G3	SOIL SAMPLE LOCATION
VP-3	SOIL GAS WELL LOCATION

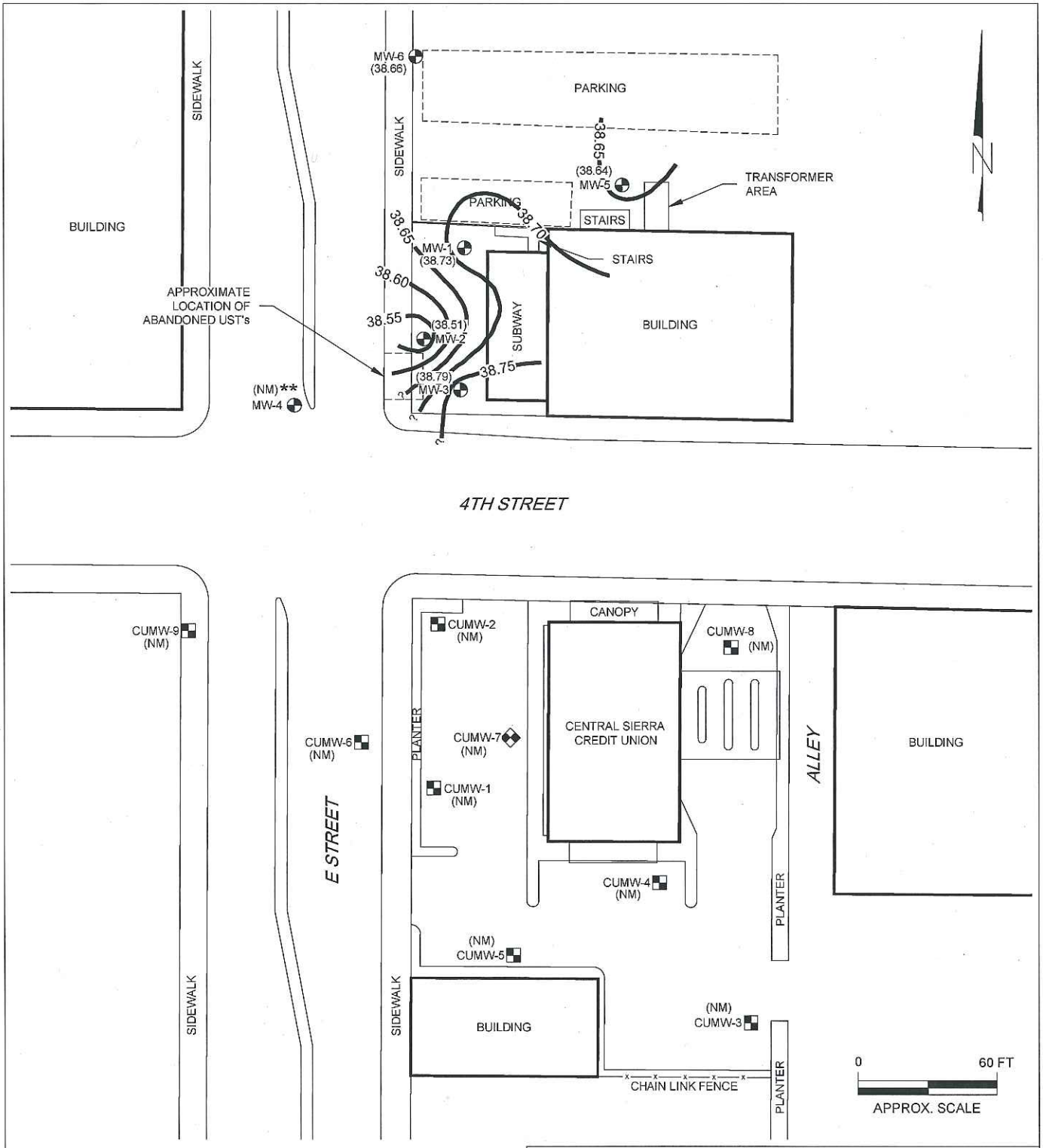
FIGURE 3

SITE MAP

MARYSVILLE PLAZA SUBWAY
(FORMER MOBIL STATION)
401 E. STREET
MARYSVILLE, CALIFORNIA

PROJECT NO. -	DRAWN BY M.L. 10/19/13
FILE NO. -	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



LEGEND:

MW-6	FORMER MOBIL MONITORING WELL (SUBWAY)
CUMW-9	FORMER TEXACO MONITORING WELL (CENTRAL SIERRA CREDIT UNION)
CUMW-7	FORMER TEXACO DEEP MONITORING WELL (CENTRAL SIERRA CREDIT UNION)
(38.73)	GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
38.65	WATER TABLE CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL
NM	NOT MEASURED
	GROUNDWATER FLOW DIRECTION

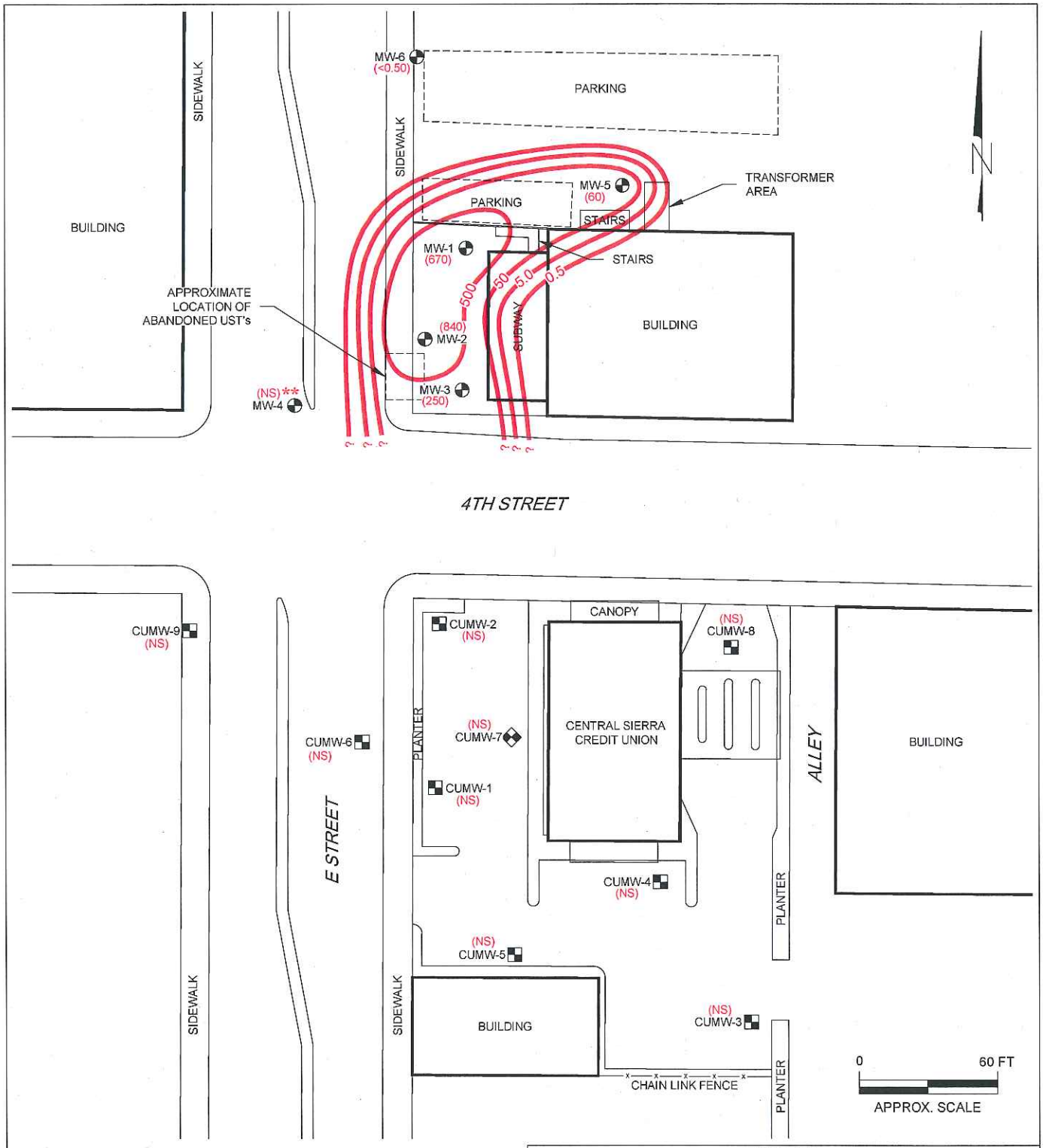
* NOT USED FOR CONTOUR CONSTRUCTION

** DISCONTINUED FROM MONITORING AND SAMPLING PROGRAM

FIGURE 4
GROUNDWATER ELEVATION CONTOUR MAP
8/11/14
MARYSVILLE PLAZA SUBWAY
(FORMER MOBIL STATION)
401 E. STREET
MARYSVILLE, CALIFORNIA

PROJECT NO. -	DRAWN BY M.L. 12/9/14
FILE NO. -	PREPARED BY RDM
REVISION NO. 0	REVIEWED BY

R D M Environmental



LEGEND:

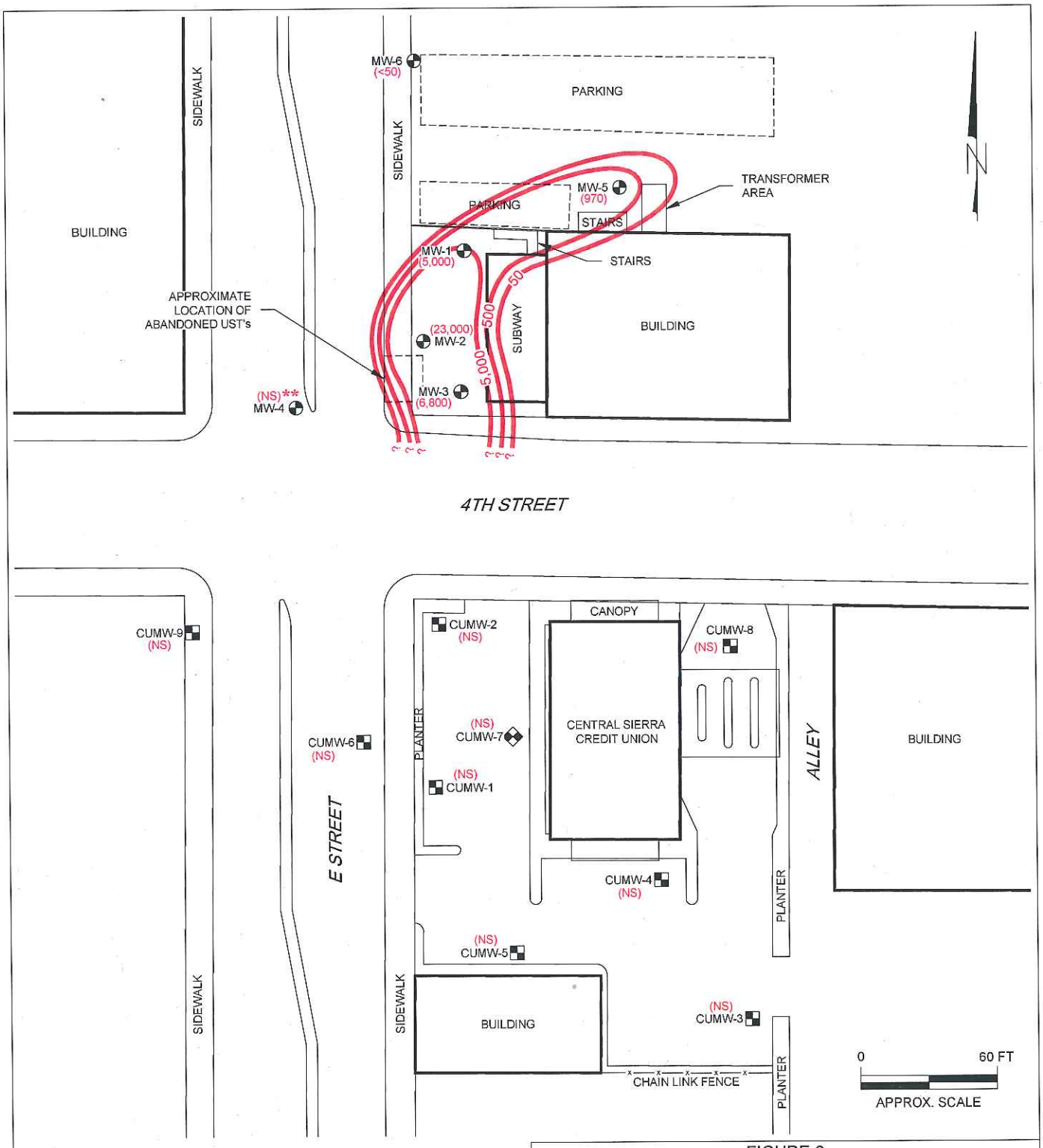
MW-6	FORMER MOBIL MONITORING WELL (SUBWAY)
CUMW-9	FORMER TEXACO MONITORING WELL (CENTRAL SIERRA CREDIT UNION)
CUMW-7	FORMER TEXACO DEEP MONITORING WELL (CENTRAL SIERRA CREDIT UNION)
(840)	BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
500	LINE OF EQUAL CONCENTRATION OF BENZENE IN GROUNDWATER
NS	NOT SAMPLED

** DISCONTINUED FROM MONITORING AND SAMPLING PROGRAM

FIGURE 5
BENZENE ISO-CONCENTRATION MAP
8/11/14
MARYSVILLE PLAZA SUBWAY
(FORMER MOBIL STATION)
401 E. STREET
MARYSVILLE, CALIFORNIA

PROJECT NO. -	DRAWN BY M.L. 12/9/14
FILE NO. -	PREPARED BY RDM
REVISION NO. 0	REVIEWED BY

R D M Environmental



LEGEND:

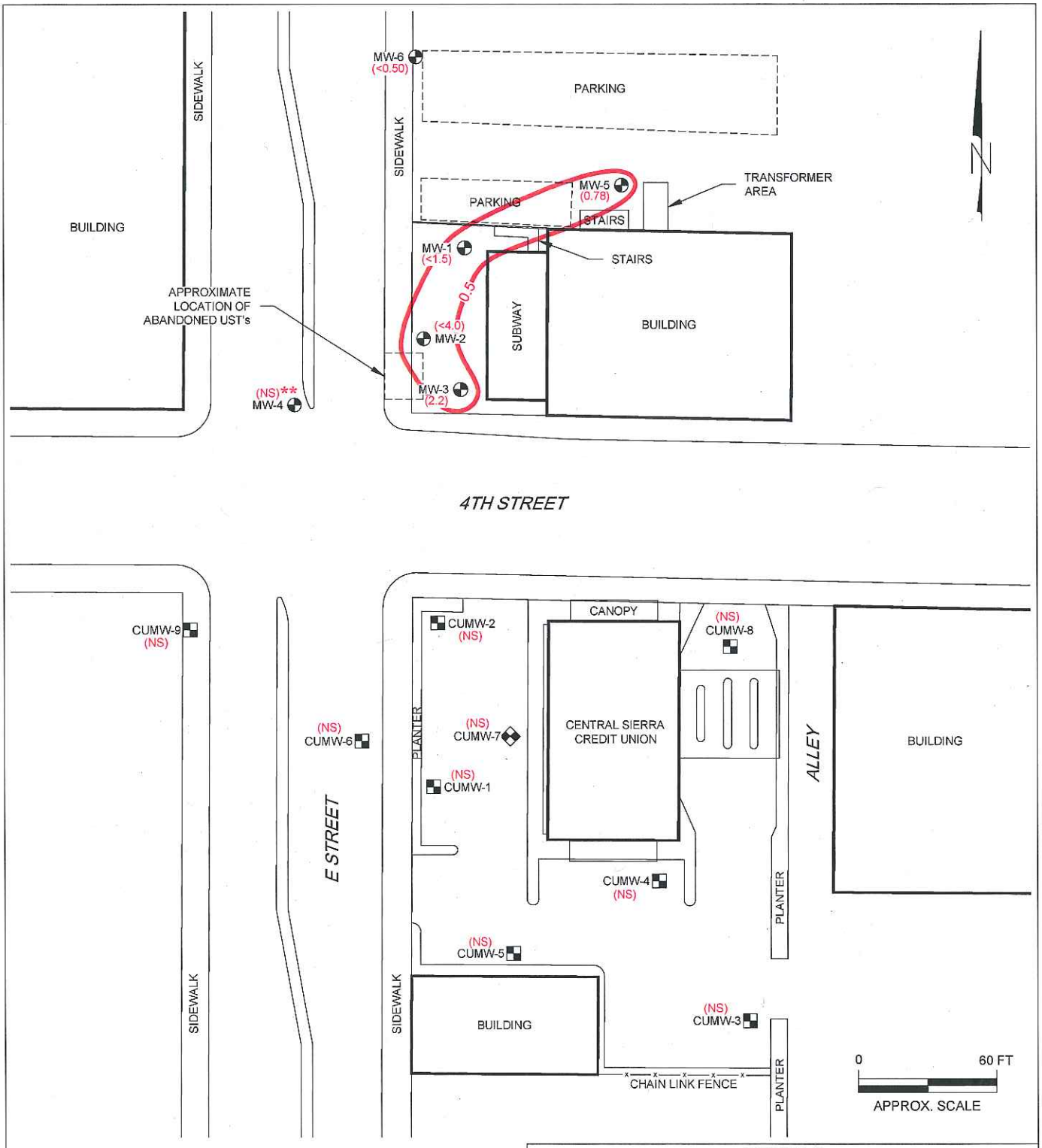
MW-6	FORMER MOBIL MONITORING WELL (SUBWAY)
CUMW-9	FORMER TEXACO MONITORING WELL (CENTRAL SIERRA CREDIT UNION)
CUMW-7	FORMER TEXACO DEEP MONITORING WELL (CENTRAL SIERRA CREDIT UNION)
(23,000)	TPHg CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
500	LINE OF EQUAL CONCENTRATION OF TPHg IN GROUNDWATER
NS	NOT SAMPLED

** DISCONTINUED FROM MONITORING AND SAMPLING PROGRAM

FIGURE 6
TPHg ISO-CONCENTRATION MAP
8/11/14
MARYSVILLE PLAZA SUBWAY
(FORMER MOBIL STATION)
401 E. STREET
MARYSVILLE, CALIFORNIA

PROJECT NO. -	DRAWN BY M.L. 12/9/14
FILE NO. -	PREPARED BY RDM
REVISION NO. 0	REVIEWED BY

RDM Environmental



LEGEND:

MW-6	FORMER MOBIL MONITORING WELL (SUBWAY)
CUMW-9	FORMER TEXACO MONITORING WELL (CENTRAL SIERRA CREDIT UNION)
CUMW-7	FORMER TEXACO DEEP MONITORING WELL (CENTRAL SIERRA CREDIT UNION)
(2.2)	MTBE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
0.5	LINE OF EQUAL CONCENTRATION OF MTBE IN GROUNDWATER
NS	NOT SAMPLED

** DISCONTINUED FROM MONITORING AND SAMPLING PROGRAM

FIGURE 7
MTBE ISO-CONCENTRATION MAP
8/11/14
MARYSVILLE PLAZA SUBWAY
(FORMER MOBIL STATION)
401 E. STREET
MARYSVILLE, CALIFORNIA

PROJECT NO. -	DRAWN BY M.L. 12/9/14
FILE NO. -	PREPARED BY RDM
REVISION NO. 0	REVIEWED BY

RDM Environmental

TABLE 1

GROUNDWATER MONITORING DATA

Former Mobil Station
Marysville Plaza Subway
401 E Street
Marysville, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as Gasoline (µg/L)	TPH as Diesel (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Lead Scavengers (µg/L)	Naphthalene (µg/L)
MW-1	11/22/10	62.99	21.41	41.58	1,900	140	260	192	5,900	NA	<1.0	68[a]	<0.50	NA
	03/01/11		18.65	44.34	1,300	67	84	134	3,100	NA	<1.0	ND	<0.50	NA
	05/11/11		16.40	46.59	1,600	68	12	81	2,300	NA	<1.0	86[a]	<0.50	NA
	09/28/11		19.50	43.49	700	65	100	86	2,000	NA	<1.0	ND	<0.50	NA
	11/16/11		19.69	43.30	1,200	76	190	114	3,600	NA	<1.0	ND	<0.50	NA
	05/24/12		19.04	43.95	54	1.8	0.99	2.0	180	NA	<1.0	ND	<0.50	NA
	02/21/13		19.44	43.55	150	4.5	29	42	1,100	NA	<0.50	ND	<0.50	28
	05/21/13		20.38	42.61	360	11	15	70	3,400	NA	<0.50	9.4[a]	<0.50	73
	09/19/13		22.81	40.18	1,600	160	250	190	10,000	1,200[c]	<2.0	35[a]	<2.0	370
	11/26/13		22.75	40.24	1,400	100	150	160	7,100	NA	<4.0	35[a]	<4.0	350
	2/18/204		23.45	39.54	1,400	57	18	76	8,800	NA	<4.0	27[a]	<4.0	330
	05/27/14		23.00	39.99	1,400	54	13	50	8,900	NA	<4.0	ND	<4.0	260
	8/'11/14		24.26	38.73	670	64	130	92	5,000	960[c]	<1.5	16[a]	<1.5	190
MW-2	11/22/10	63.10	21.52	41.58	3,000	440	840	2,059	12,000	NA	4.8	68[a]	2.7[b]	NA
	03/01/11		18.80	44.30	2,200	300	300	1,548	24,000	NA	2.1	ND	1.6[b]	NA
	05/11/11		16.50	46.60	2,800	340	710	1,470	5,000	NA	2.1	90[a]	2.3[b]	NA
	09/28/11		19.50	43.60	510	250	560	1,157	38,000	NA	<1.0	ND	<0.50	NA
	11/16/11		19.80	43.30	1,400	390	710	1,172	16,000	NA	<1.0	ND	<0.50	NA
	05/24/12		19.11	43.99	2,600	220	620	1,261	21,000	NA	<1.0	75[a]	<0.50	NA
	02/21/13		19.53	43.57	2,800	350	1,000	1,600	27,000	NA	<7.0	41[a]	<7.0	550
	05/21/13		20.45	42.65	3,700	410	1,200	2,100	28,000	NA	<7.0	44[a]	<7.0	660
	09/19/13		22.97	40.13	1,300	640	660	1,600	22,000	19,000[c]	<3.0	21[a]	<3.0	510
	11/26/13		22.85	40.25	1,800	740	810	2,400	25,000	NA	<3.0	29[a]	<3.0	540
	02/18/14		22.58	40.52	1,800	640	900	2,300	30,000	NA	<3.0	20[a]	<3.0	580
	05/27/14		23.04	40.06	2,000	500	910	2,400	33,000	NA	<7.0	ND	<7.0	510
	8/'11/14		24.26	38.84	840	220	740	2,000	23,000	7,900[c]	<4.0	ND	<4.0	490

TABLE 1

GROUNDWATER MONITORING DATA

Former Mobil Station
Marysville Plaza Subway
401 E Street
Marysville, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as Gasoline (µg/L)	TPH as Diesel (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Lead Scavengers (µg/L)	Naphthalene (µg/L)
MW-3	11/22/10	62.64	21.07	41.57	2,000	200	65	242	6,700	NA	2.0	40[a]	1.3[b]	NA
	03/01/11		18.35	44.29	1,200	110	62	139	3,100	NA	4.0	ND	1.4[b]	NA
	05/11/11		16.05	46.59	1,400	130	100	138	3,500	NA	2.6	ND	1.5[b]	NA
	09/28/11		19.10	43.54	200	110	85	120	2,400	NA	<1.0	ND	1.3[b]	NA
	11/16/11		19.34	43.30	400	110	160	262	4,200	NA	<1.0	ND	<0.50	NA
	05/24/12		18.63	44.01	680	86	100	132	10,000	NA	1.1	51[a]	<0.50	NA
	02/21/13		19.10	43.54	120	48	58	52	4,600	NA	0.87	19[a]	<0.80	130
	05/21/13		19.98	42.66	170	60	100	67	5,400	NA	0.82	17[a]	<0.80	140
	09/19/13		22.38	40.26	160	260	300	530	9,100	990[c]	1.9	44[a]	<0.80	170
	11/26/13		22.38	40.26	200	140	200	340	7,300	NA	2.3	36[a]	<1.5	170
	02/18/14		22.12	40.52	220	120	190	200	7,900	NA	1.8	37[a]	<1.5	220
	05/27/14		22.57	40.07	280	97	190	170	11,000	NA	3.0	30[a]	<1.5	260
	8/11/14		23.85	38.79	250	88	56	100	6,800	1,200[c]	2.2	14[a]	<1.5	240
MW-4	11/22/10	63.37	NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/01/11		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/11/11		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/28/11		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/16/11		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/24/12		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/21/13		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/21/13		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/19/13		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/26/13		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/18/14		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/27/14		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/11/14		NM	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	11/22/10	64.17	22.61	41.56	<0.50	<0.50	<0.50	<0.50	<50	NA	<1.0	ND	<0.50	NA
	03/01/11		19.80	44.37	<0.50	<0.50	<0.50	<0.50	<50	NA	<1.0	ND	<0.50	NA
	05/11/11		17.63	46.54	<0.50	<0.50	<0.50	<0.50	<50	NA	<1.0	ND	<0.50	NA
	09/28/11		20.75	43.42	0.56	<0.50	<0.50	<0.50	140	NA	<1.0	ND	<0.50	NA
	11/16/11		20.91	43.26	<0.50	<0.50	<0.50	<0.50	<50	NA	<1.0	ND	<0.50	NA
	05/24/12		20.28	43.89	<0.50	<0.50	<0.50	<0.50	<50	NA	<1.0	ND	<0.50	NA
	02/21/13		20.64	43.53	<0.50	<0.50	<0.50	<0.50	79	NA	<0.50	8.9[a]	<0.50	<0.50
	05/21/13		21.60	42.57	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS
	09/19/13		24.05	40.12	1.1	<0.50	<0.50	<0.50	77	<50	<0.50	ND	<0.50	<0.50
	11/26/13		23.94	40.23	0.59	<0.50	<0.50	<0.50	130	NA	<0.50	6.7[a]	<0.50	<0.50
	02/18/14		23.65	40.52	<0.50	<0.50	<0.50	<0.50	60	NA	<0.50	ND	<0.50	<0.50
	05/27/14		24.24	39.93	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS
	8/11/14		25.53	38.64	60	11	0.73	13	970	440[c]	0.78	8.2[a]	<0.50	3.8

TABLE 1

GROUNDWATER MONITORING DATA

Former Mobil Station
Marysville Plaza Subway
401 E Street
Marysville, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as Gasoline (µg/L)	TPH as Diesel (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Lead Scavengers (µg/L)	Naphthalene (µg/L)
MW-6	11/22/10	63.10	21.52	41.58	<0.50	<0.50	<0.50	<1.0	<50	NA	<1.0	ND	<0.50	NA
	03/01/11		18.75	44.35	<0.50	<0.50	<0.50	<1.0	<50	NA	<1.0	ND	<0.50	NA
	05/11/11		16.55	46.55	<0.50	<0.50	<0.50	<1.0	<50	NA	<1.0	ND	<0.50	NA
	09/28/11		19.70	43.40	<0.50	<0.50	<0.50	<1.0	120	NA	<1.0	ND	<0.50	NA
	11/16/11		19.83	43.27	<0.50	<0.50	<0.50	<1.0	<50	NA	<1.0	ND	<0.50	NA
	05/24/12		19.24	43.86	<0.50	<0.50	<0.50	<1.0	<50	NA	<1.0	ND	<0.50	NA
	02/21/13		19.55	43.55	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS
	05/21/13		20.55	42.55	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS
	09/19/13		23.02	40.08	<0.50	<0.50	<0.50	<0.50	<50	140[c]	<0.50	ND	<0.50	<0.50
	11/26/13		22.88	40.22	<0.50	<0.50	<0.50	<0.50	<50	NA	<0.50	ND	<0.50	<0.50
	02/18/14		22.57	40.53	<0.50	<0.50	<0.50	<0.50	<50	NA	<0.50	ND	<0.50	<0.50
	05/27/14		23.19	39.91	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS
	8/11/14		24.44	38.66	<0.50	<0.50	<0.50	<0.50	<50	NA	<0.50	ND	<0.50	<0.50

Oxygenate Compounds = diisopropyl ether, ethyl tertiary butyl ether, tert-amyl methyl ether, and tert-butanol by EPA Method 8260B.

Top of Riser Elevations = Elevations surveyed to mean sea level.

TPH = Total petroleum hydrocarbons.

MTBE = Methyl tertiary butyl ether.

Lead Scaveners = 1,2dichoroethane (1,2 DCA), and 1,2 dibromoethane (EDB)

mg/L = Micrograms per liter.

NS = Not sampled.

NM = Not measured.

NC = Not calculated.

NA = Not analyzed.

ND = Concentrations not detected at or above laboratory reporting limits.

* = Diesel analysis using Silica Gel.

[a] = Tert-Butanol.

[b] = 1,2-DCA.

[c] = Lower boiling point hydrocarbons present, atypical for Diesel Fuel.

Note: Top of riser (casing) elevations are based on survey performed by Morrow Surveying of West Sacramento, California on April 13, 2006 as reported by prevous consutlant, Earthtec, Inc.

TABLE 2

VACUUM TRUCK EVENT GROUNDWATER LABORATORY RESULTS

Former Mobil Station
Marysville Plaza Subway
401 E Street
Marysville, California

Monitoring Well	Date	Time	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)
MW-1	12/16/13	4:05 AM	1,600	91	86	140	10,000	<3.0	20[a]
(Post)	02/15/14	3:22 AM	900	19	4.8	32	6,500	<1.5	21[a]
MW-2	05/24/13	6:36 AM	1,300	170	460	650	13,000	<2.5	23[a]
	05/24/13	2:55 PM	730	79	210	340	7,800	<1.5	14[a]
	06/14/13	20:40PM	1,000	280	440	730	13,000	<2.5	31[a]
	06/15/13	3:22AM	580	220	490	990	20,000	<1.5	19[a]
	10/08/13	20:50PM	1,900	690	810	1,800	21,000	<2.5	22[a]
	10/09/13	5:00 AM	590	74	160	360	6,100	<0.90	13[a]
	12/16/13	4:10 AM	550	68	280	750	14,000	<0.90	5.7[a]
(Post)	02/15/14	3:26 AM	490	130	310	710	8,700	<1.5	12[a]
MW-3	05/24/13	6:44 AM	220	84	150	93	5,200	1.1	24[a]
	05/24/13	15:00PM	130	44	68	93	2,600	<0.50	17[a]
	06/14/13	20:34 PM	150	74	150	130	4,700	0.95	27[a]
	06/15/13	3:18 AM	200	77	70	75	5,800	1.5	16[a]
	10/08/13	20:55PM	130	140	130	320	6,000	1.6	31[a]
	10/09/13	5:05 AM	200	150	100	510	6,700	2.9	15[a]
	12/16/13	4:15 AM	220	72	70	230	8,400	2.0	12[a]
(Post)	02/15/14	3:30 AM	240	58	28	91	6,700	1.9	16[a]

Oxygenate Compounds = diisopropyl ether, ethyl tertiary butyl ether, tert-amyl methyl ether, and tert-butanol by EPA Method 8260B.
Top of Riser Elevations = Elevations surveyed to mean sea level.
TPH = Total petroleum hydrocarbons.
MTBE = Methyl tertiary butyl ether.
mg/L = Micrograms per liter.
NS = Not sampled.
NM = Not measured,
ND = Concentrations not detected at or above laboratory reporting limits.
[a] = Tert-Butanol.

TABLE 3

HETEROTROPHIC PLATE COUNT EVENT LABORATORY ESULTS

Former Mobil Station
Marysville Plaza Subway
401 E Street
Marysville, California

Monitoring Well	Date	Heterotrophic Plate Count (CFU/mL)
MW-1	02/11/14	80,000
MW-2	02/11/14	20,000
MW-3	02/11/14	1,000,000

CFU/ml = Colony Forming Units per milliliter

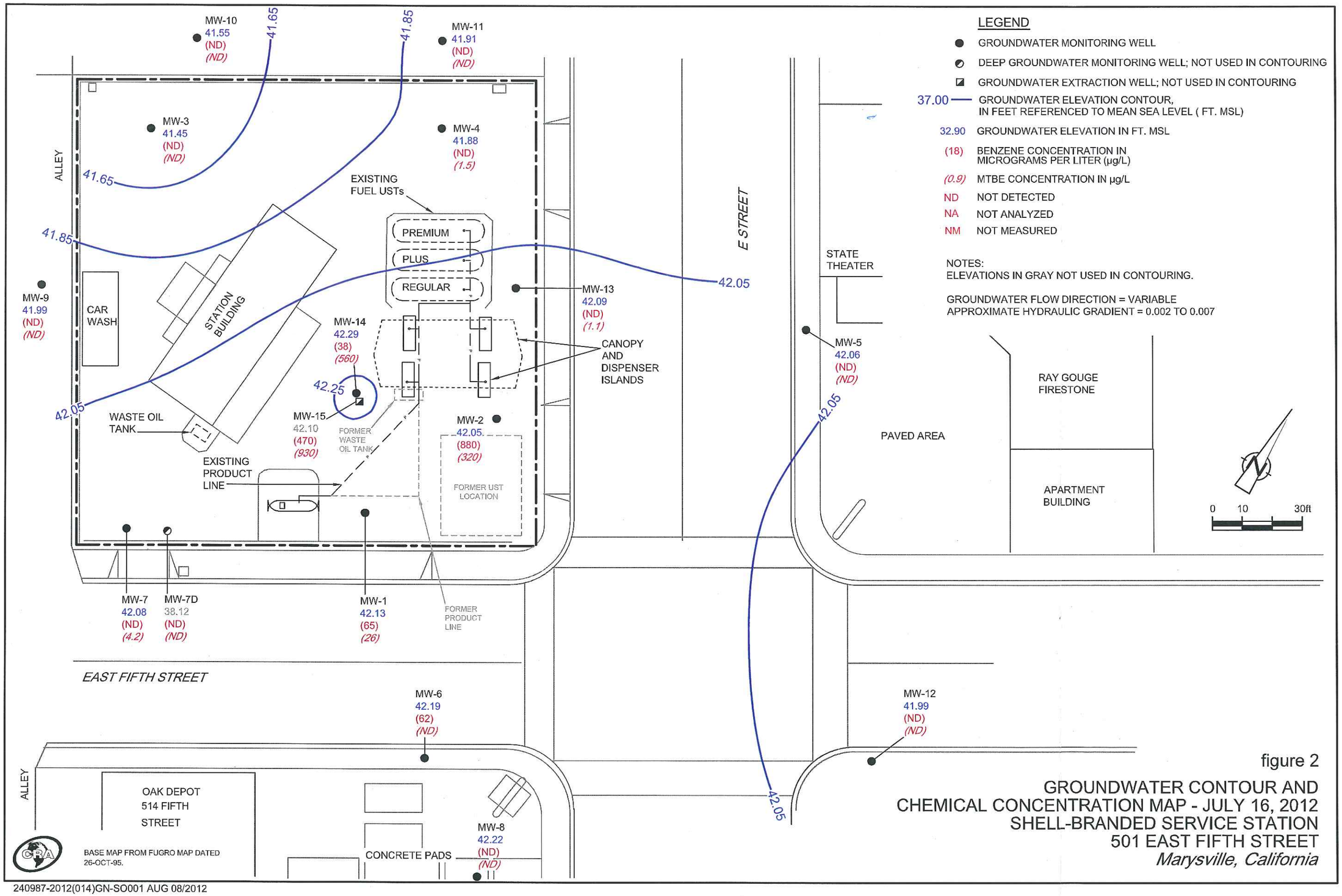


figure 2

GROUNDWATER CONTOUR AND
CHEMICAL CONCENTRATION MAP - JULY 16, 2012
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
Marysville, California

240987-2012(014)GN-SO001 AUG 08/2012

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-1	10/3/1991	51,000	-	1,800	15,000	1,800	13,000	-	-	-	-	-	-	-	-	-	-	63.48	-	-	-	-
MW-1	12/23/1991	52,000	-	2,100	9,800	1,400	8,700	-	-	-	-	-	-	-	-	-	-	63.48	-	-	-	-
MW-1	3/16/1992	53,000	-	2,300	11,000	1,800	8,200	-	-	-	-	-	-	-	-	-	-	63.48	21.38	42.10	-	-
MW-1	6/26/1992	94,000	-	2,300	11,000	2,400	12,000	-	-	-	-	-	-	-	-	-	-	63.48	23.11	40.37	-	-
MW-1	9/22/1992	61,000	-	2,200	12,000	1,900	13,000	-	-	-	-	-	-	-	-	-	-	63.48	24.60	38.88	-	-
MW-1	12/29/1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.48	22.76	40.73	0.01	-
MW-1	3/23/1993	75,000	-	2,400	16,000	2,200	12,000	-	-	-	-	-	-	-	-	-	-	63.48	18.68	44.80	-	-
MW-1	6/23/1993	45,000	-	940	11,000	1,800	12,000	-	-	-	-	-	-	-	-	-	-	63.48	19.39	44.09	-	-
MW-1	9/9/1993	45,000	-	920	7,400	1,700	7,300	-	-	-	-	-	-	-	-	-	-	63.48	20.87	42.61	-	-
MW-1	12/7/1993	29,000	-	980	4,100	1,100	4,900	-	-	-	-	-	-	-	-	-	-	63.48	20.68	42.80	-	-
MW-1	3/8/1994	23,000	-	750	2,500	660	2,900	-	-	-	-	-	-	-	-	-	-	63.48	19.08	44.40	-	-
MW-1	5/31/1994	31,000	-	980	3,200	720	5,000	-	-	-	-	-	-	-	-	-	-	63.48	20.67	42.81	-	-
MW-1	9/7/1994	120,000	-	3,400	5,600	3,700	5,100	-	-	-	-	-	-	-	-	-	-	63.48	22.93	40.55	-	-
MW-1	12/1/1994	40,000	-	1,900	1,500	1,700	6,400	-	-	-	-	-	-	-	-	-	-	63.48	21.48	42.00	-	-
MW-1	3/6/1995	19,000	-	1,400	2,500	1,200	3,600	-	-	-	-	-	-	-	-	-	-	63.48	17.08	46.40	-	-
MW-1	6/14/1995	10,000	-	630	390	490	810	-	-	-	-	-	-	-	-	-	-	63.48	13.19	50.29	-	-
MW-1	8/23/1995	6,600	-	300	62	340	320	-	-	-	-	-	-	-	-	-	-	63.48	16.92	46.56	-	-
MW-1	11/20/1995	6,800	-	180	93	200	200	-	-	-	-	-	-	-	-	-	-	63.48	19.00	44.48	-	-
MW-1	2/7/1996	6,000	-	120	98	130	190	-	-	-	-	-	-	-	-	-	-	63.48	17.50	45.98	-	-
MW-1	5/7/1996	13,000	-	130	410	320	1,300	350	-	-	-	-	-	-	-	-	-	63.48	14.84	48.64	-	3.5
MW-1	8/27/1996	11,000	-	86	350	270	860	<100	-	-	-	-	-	-	-	-	-	63.48	19.47	44.01	-	2.8
MW-1	11/14/1996	14,000	-	<100	950	660	1,800	<500	-	-	-	-	-	-	-	-	-	63.48	20.68	42.80	-	3.0
MW-1	2/18/1997	3,300	-	110	55	100	130	<25	-	-	-	-	-	-	-	-	-	63.48	12.47	51.01	-	2.4
MW-1	5/20/1997	8,200	-	62	98	97	290	52	-	-	-	-	-	-	-	-	-	63.48	17.13	46.35	-	1.2
MW-1	8/5/1997	12,000	-	100	820	320	1,200	130	-	-	-	-	-	-	-	-	-	63.48	20.64	42.84	-	3.4
MW-1	11/12/1997	14,000	-	210	1,100	700	3,100	80	-	-	-	-	-	-	-	-	-	63.48	21.49	41.99	-	1.1
MW-1	1/27/1998	8,100	-	200	94	370	1,100	<250	47	<1,000	<20	<20	<20	-	<5,000	-	-	63.48	18.76	44.72	-	1.6
MW-1	5/27/1998	4,200	-	24	52	39	160	<40	-	-	-	-	-	-	-	-	-	63.48	14.41	49.07	-	1.4
MW-1	8/10/1998	5,500	-	6.2	7.1	170	63	<25	-	-	-	-	-	-	-	-	-	63.48	18.00	45.48	-	1.4
MW-1	12/3/1998	13,100	-	72.4	429	254	1,090	54.4	-	-	-	-	-	-	-	-	-	63.48	18.79	44.69	-	1.2
MW-1	2/9/1999	3,570	-	28.7	48.0	52.1	192	73.7	-	-	-	-	-	-	-	-	-	63.48	17.76	45.72	-	1.3
MW-1	5/6/1999	2,390	-	2.08	2.64	5.68	6.08	<20.0	-	-	-	-	-	-	-	-	-	63.48	19.03	44.45	-	0.6
MW-1	8/24/1999	13,200	-	131	115	1,260	2,100	405	-	-	-	-	-	-	-	-	-	63.48	21.59	41.89	-	0.05
MW-1	12/7/1999	18,000	-	151	755	<12.5	3,230	264	-	-	-	-	-	-	-	-	-	63.48	21.09	42.39	-	0.04
MW-1	2/16/2000	22,700	-	195	517	666	3,150	367	-	-	-	-	-	-	-	-	-	63.48	21.50	41.98	-	1.6
MW-1	5/11/2000	5,180	-	24.9	11.4	11.0	41.1	161	27.6	<20	7.18	<1.0	<1.0	-	<400	<1.0	<1.0	63.48	18.41	45.07	-	1.9
MW-1	8/31/2000	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.48	-	-	-	-
MW-1	11/14/2000	16,000	-	140	420	600	2,900	-	36	<50	16	<5.0	<5.0	-	-	<5.0	<5.0	63.48	21.39	42.09	-	2.2
MW-1	2/14/2001	14,000 b	-	130	280	540	2,400	-	27	<200	13	<10	<10	-	-	<10	<40	63.48	20.97	42.51	-	0.4
MW-1	6/11/2001	c	c	c	c	c	c	-	c	-	-	-	-	-	-	-	-	63.48	22.90	40.58	-	1.0
MW-1	6/21/2001	16,000	-	140	620	780	2,700	-	46	<50	17	<5.0	<5.0	-	-	<5.0	<5.0	63.48	23.36	40.12	-	-
MW-1	8/31/2001	11,000	-	110	280	480	1,400	-	20	<2.0	23	<2.0	<2.0	-	-	<2.0	<2.0	63.48	24.74	38.74	-	0.3
MW-1	12/3/2001	10,000	-	150	230	510	1,000	-	21	<2.5	27	<2.5	<2.5	-	-	<2.5	<2.5	63.48	23.12	40.36	-	0.4
MW-1	2/11/2002	25,000	-	130	490	700	2,500	-	28	<50	12	<5.0	<5.0	-	-	<5.0	<5.0	63.21	20.48	42.73	-	0.6

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-1	6/13/2002	16,000	-	87	410	530	2,000	-	24	<50	12	<5.0	<5.0	-	-	<5.0	<5.0	63.21	20.65	42.56	-	0.67
MW-1	8/5/2002	20,000	-	150	620	720	2,600	-	<5.0	<50	15	<5.0	<5.0	-	-	<5.0	<5.0	63.21	22.29	40.92	-	1.0
MW-1	11/19/2002	21,000	-	160	480	890	3,300	-	24	<10	15	<5.0	<5.0	-	-	-	-	63.21	22.74	40.47	-	0.8
MW-1	3/7/2003	17,000	-	96	310	610	2,400	-	23	<10	8.2	<5.0	<5.0	-	-	-	-	63.21	19.73	43.48	-	1.2
MW-1	4/25/2003	9,600	-	92	200	350	1,100	-	32	<50	11	<2.0	<2.0	-	-	-	-	63.21	19.51	43.70	-	0.8
MW-1	8/22/2003	15,000	-	240	550	670	2,600	-	40	<100	94	-	<40	-	-	-	-	63.21	23.01	40.20	-	1.0
MW-1	11/17/2003	11,000	-	200	190	360	970	-	23	<50	<20	-	<20	-	-	-	-	63.21	23.15	40.06	-	0.9
MW-1	2/3/2004	25,000	-	230	630	1,000	3,800	-	28	<130	<50	-	<50	-	-	-	-	63.08 e	20.80	42.28	-	1.6
MW-1	5/17/2004	20,000	-	180	800	940	3,900	-	45	<130	<50	-	<50	-	-	-	-	63.08	20.35	42.73	-	0.8
MW-1	7/14/2004	16,000	-	260	600	810	2,700	-	36	<130	<50	-	<50	-	-	-	-	63.08	19.96	43.12	-	1.0
MW-1	12/7/2004	21,000	-	280	410	650	2,100	-	49	<250	<100	-	<100	-	-	-	-	63.08	21.76	41.32	-	1.1
MW-1	2/22/2005	15,000	-	200	260	450	1,600	-	40	<50	<20	-	<20	-	-	-	-	63.08	19.94	43.14	-	0.82
MW-1	6/8/2005	32,000	-	200	990	1,500	5,800	-	58	<200	<80	-	<80	-	-	-	-	63.08	19.37	43.71	-	0.2
MW-1	8/15/2005	18,000	-	170	460	710	2,300	-	50	<250	<100	<100	<100	-	<2,500	-	-	63.08	21.57	41.51	-	0.5
MW-1	12/6/2005	17,000	-	250	480	700	2,700	-	36	<50	<20	-	<20	-	-	-	-	63.08	21.08	42.00	-	0.3
MW-1	2/16/2006	22,000	-	280	400	710	2,400	-	13	<12	26	-	<2.0	-	-	-	-	63.08	17.62	45.46	-	0.3
MW-1	6/5/2006	8,000	-	83	22	59	200	-	21	<40	16	-	<4.0	-	-	-	-	63.08	13.83	49.25	-	0.3
MW-1	8/4/2006	7,200	-	38	55	150	530	-	39	<25	<10	<10	<10	-	<250	-	-	63.08	17.78	45.30	-	0.19
MW-1	11/22/2006	7,600	-	50	62	150	480	-	42	<25	10	-	<10	-	-	-	-	63.08	19.76	43.32	-	0.14
MW-1	2/7/2007	5,600	-	44	74	170	550	-	50	<25	<10	-	<10	-	-	-	-	63.08	19.92	43.16	-	0.31
MW-1	5/24/2007	8,100 l	-	39	150	240	760	-	47	14	6.7	-	<2.0	-	-	-	-	63.08	26.29	36.79	-	0.19
MW-1	8/30/2007	16,000 l	-	130	360	590	2,030	-	36	<100	16 m	<20	<20	-	<1,000	-	-	63.08	22.00	41.08	-	0.19
MW-1	11/15/2007	6,100 l	-	120	140	250	780	-	29	<100	23	-	<20	-	-	-	-	63.08	21.08	42.00	-	0.65
MW-1	2/13/2008	6,900 l	-	100	150	200	760	-	36	<20	<4.0	-	<4.0	-	-	-	-	63.08	19.14	43.94	-	0.39
MW-1	5/2/2008	8,700	-	110	140	270	750	-	56	<50	19	-	<10	-	-	-	-	63.08	20.28	42.80	-	1.22
MW-1	8/26/2008	8,700	-	180	150	290	753	-	17	<50	24	<10	<10	-	<500	-	-	63.08	24.13	38.95	-	1.14
MW-1	11/6/2008	13,000	-	310	220	460	980	-	20	<50	33	-	<10	-	-	-	-	63.08	22.85	40.23	-	0.87
MW-1	1/28/2009	6,400	-	290	120	230	390	-	<5.0	<50	41	-	<10	-	-	-	-	63.08	21.92	41.16	-	0.74
MW-1	5/12/2009	15,000	-	360	260	570	1,600	-	13	<50	29	-	<10	-	-	-	-	63.08	20.37	42.71	-	1.61
MW-1	11/3/2009	18,000	-	340	420	690	1,900	-	32	<50	31	<10	<10	-	<500	-	-	63.08	22.62	40.46	-	0.83
MW-1	4/19/2010	6,900	-	190	130	260	610	-	38	<20	21	-	<4.0	-	-	-	-	63.08	19.56	43.52	-	0.76
MW-1	10/19/2010	26,000	-	280	320	770	1,900	-	31	<100	<20	<20	<20	-	<1,000	-	-	63.08	22.00	41.08	-	0.98
MW-1	4/11/2011	16,000	-	190	160	440	1,400	-	27	<100 j	23	<10	<10	-	-	-	-	63.08	19.42	43.66	-	1.08
MW-1	10/7/2011	15,000	-	62	240	570	1,800	-	24	<100	-	-	-	-	<1,500	-	-	63.08	19.60	43.48	-	1.40
MW-1	3/9/2012	5,800	-	33	110	240	710	-	27	<100	-	-	-	-	-	-	-	63.08	19.86	43.22	-	0.40
MW-1	4/24/2012	9,200	-	53	140	350	980	-	26	<100	-	-	-	-	-	-	-	63.08	18.39	44.69	-	0.24
MW-1	**7/16/2012**	**13,000**	-	**65**	**250**	**540**	**1,600**	-	**26**	**<100**	-	-	-	-	-	-	-	**63.08**	**20.95**	**42.13**	-	**0.68**
MW-2	10/3/1991	55,000	-	4,800	12,000	2,000	14,000	-	-	-	-	-	-	-	-	-	-	63.46	-	-	-	-
MW-2	12/23/1991	37,000	-	3,600	4,300	1,200	6,400	-	-	-	-	-	-	-	-	-	-	63.46	-	-	-	-
MW-2	3/16/1992	32,000	-	4,200	4,300	1,200	5,700	-	-	-	-	-	-	-	-	-	-	63.46	21.39	42.07	0.01	-
MW-2	6/26/1992	97,000	-	2,300	13,000	2,300	12,000	-	-	-	-	-	-	-	-	-	-	63.46	22.98	40.48	0.01	-
MW-2	9/22/1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.46	24.59	38.87	-	-
MW-2	12/29/1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.46	22.77	40.69	-	-

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-2	3/23/1993	22,000	-	2,700	1,200	850	3,900	-	-	-	-	-	-	-	-	-	-	63.46	18.78	44.68	-	-
MW-2	6/23/1993	52,000	-	600	2,600	3,400	23,000	-	-	-	-	-	-	-	-	-	-	63.46	19.23	44.23	-	-
MW-2	9/9/1993	45,000	-	2,400	3,500	2,100	9,900	-	-	-	-	-	-	-	-	-	-	63.46	20.85	42.61	-	-
MW-2	12/7/1993	17,000	-	1,600	1,000	740	3,700	-	-	-	-	-	-	-	-	-	-	63.46	20.81	42.65	-	-
MW-2	3/8/1994	54,000	-	2,400	6,600	2,400	16,000	-	-	-	-	-	-	-	-	-	-	63.46	19.34	44.12	-	-
MW-2	5/31/1994	38,000	-	2,000	3,200	1,600	9,900	-	-	-	-	-	-	-	-	-	-	63.46	20.88	42.58	-	-
MW-2	9/7/1994	88,000	-	1,900	1,800	900	3,600	-	-	-	-	-	-	-	-	-	-	63.46	23.10	40.36	-	-
MW-2	12/1/1994	17,000	-	1,000	910	430	2,300	-	-	-	-	-	-	-	-	-	-	63.46	21.83	41.63	-	-
MW-2	3/6/1995	17,000	-	1,300	260	620	2,500	-	-	-	-	-	-	-	-	-	-	63.46	17.00	46.46	-	-
MW-2	6/14/1995	20,000	-	330	160	1,100	3,400	-	-	-	-	-	-	-	-	-	-	63.46	13.02	50.44	-	-
MW-2	8/23/1995	52,000	-	500	1,800	3,100	15,000	-	-	-	-	-	-	-	-	-	-	63.46	17.07	46.39	-	-
MW-2	11/20/1995	61,000	-	410	760	3,300	19,000	-	-	-	-	-	-	-	-	-	-	63.46	18.99	44.47	-	-
MW-2	2/7/1996	63,000	-	410	640	3,300	17,000	-	-	-	-	-	-	-	-	-	-	63.46	17.47	45.99	-	-
MW-2	5/7/1996	38,000	-	470	1,500	2,800	14,000	<500	-	-	-	-	-	-	-	-	-	63.46	14.86	48.60	-	2.9
MW-2	8/27/1996	86,000	-	540	1,400	3,400	21,000	<500	-	-	-	-	-	-	-	-	-	63.46	19.46	44.00	-	2.2
MW-2	11/14/1996	95,000	-	910	5,400	3,900	26,000	<500	-	-	-	-	-	-	-	-	-	63.46	20.64	42.82	-	2.3
MW-2	2/18/1997	22,000	-	640	70	1,900	3,500	<125	-	-	-	-	-	-	-	-	-	63.46	12.46	51.00	-	1.5
MW-2	5/20/1997	54,000	-	800	2,900	2,700	12,000	350	-	-	-	-	-	-	-	-	-	63.46	17.31	46.15	-	1.4
MW-2	8/5/1997	63,000	-	1,400	2,700	3,600	16,000	<250	-	-	-	-	-	-	-	-	-	63.46	20.43	43.03	-	2.4
MW-2	11/12/1997	39,000	-	1,600	750	3,200	7,500	380	-	-	-	-	-	-	-	-	-	63.46	21.46	42.00	-	0.9
MW-2	1/27/1998	31,000	-	1,500	560	3,900	11,000	<250	<100	<5,000	120	<100	<100	-	<25,000	-	-	63.46	18.65	44.81	-	1.5
MW-2	5/27/1998	22,000	-	230	300	1,200	4,500	530	690	<5,000	<100	<100	<100	-	<25,000	-	-	63.46	14.46	49.00	-	1.6
MW-2	8/10/1998	40,000	-	400	570	2,800	9,900	990	610	<10,000	<200	<200	<200	-	<50,000	-	-	63.46	18.15	45.31	-	1.7
MW-2	12/3/1998	84,100	-	873	2,690	4,170	25,200	750	610	<5,000	<250	<250	<250	-	<25,000	<125	<125	63.46	18.98	44.48	-	1.6
MW-2	2/9/1999	18,900	-	508	85.9	2,200	2,580	872	-	<2,000	<100	<100	<100	-	<10,000	<50	<50	63.46	18.98	44.48	-	0.8
MW-2	5/6/1999	25,900	-	163	257	1,460	5,350	1,160	1,910	<5,000	<50	<50	<50	-	<25,000	-	-	63.46	18.41	45.05	-	0.8
MW-2	8/24/1999	57,600	-	900	4,560	3,540	23,400	<500	482	<10,000	<100	<100	<100	-	<50,000	-	-	63.46	20.98	42.48	-	0.07
MW-2	12/7/1999	25,000	-	1,750	457	<20.0	3,440	814	563	<1,000	186	<10	<10	-	<5,000	-	-	63.46	21.06	42.40	-	0.07
MW-2	2/16/2000	24,200	-	1,840	94.4	1,380	1,670	827	576	<1,250	173	<25	<25	-	<12,500	-	-	63.46	21.33	42.13	-	2.4
MW-2	5/11/2000	49,300	-	639	717	2,790	12,200	1,200	1,020	<100	<100	<100	<100	-	<40,000	<100	<100	63.46	18.46	45.00	-	2.1
MW-2	8/31/2000	44,000	-	2,200	1,500	2,400	9,500	-	710	570	160	<10	<10	<1,000	<100	<10	<10	63.46	22.05	41.41	-	1.8
MW-2	11/14/2000	28,000	-	1,400	420	1,400	4,600	-	550	290	93	<5.0	<5.0	-	-	<5.0	<5.0	63.46	21.40	42.06	-	2.4
MW-2	2/14/2001	13000b	-	2,000	47	470	540	-	560	340	140	<10	<10	-	-	<10	<10	63.46	20.92	42.54	-	0.2
MW-2	6/11/2001	30,000	-	2,300	760	1,400	4,900	-	630	510	190	<10	<10	-	-	<10	<10	63.46	22.95	40.51	-	1.6
MW-2	8/31/2001	26,000	-	2,700	270	1,200	2,700	-	620	490	220	<2.0	<2.0	-	-	<2.0	<2.0	63.46	24.72	38.74	-	0.2
MW-2	12/3/2001	17,000	-	3,000	100	740	740	-	500	450	260	<20	<20	-	-	<20	<20	63.46	23.05	40.41	-	0.2
MW-2	2/11/2002	21,000	-	3,300	110	1,200	950	-	530	450	260	<20	<20	-	-	<20	<20	63.20	20.42	42.78	-	0.6
MW-2	6/13/2002	18,000	-	2,200	160	620	1,700	-	520	350	130	<10	<10	-	-	<10	<10	63.20	20.51	42.69	-	0.25
MW-2	8/5/2002	22,000	-	2,400	300	750	2,200	-	450	300	150	<10	<10	-	-	<10	<10	63.20	22.22	40.98	-	0.6
MW-2	11/19/2002	15,000	-	2,500	130	300	680	-	350	340	130	<10	<10	-	-	-	-	63.20	22.69	40.51	-	0.8
MW-2	3/7/2003	10,000	-	1,800	57	120	160	-	220	270	72	<5.0	<5.0	-	-	-	-	63.20	19.71	43.49	-	1.2
MW-2	4/25/2003	16,000	-	1,700	160	630	1,400	-	940	290	83	<10	<10	-	-	-	-	63.20	19.47	43.73	-	0.5
MW-2	8/22/2003	25,000	-	3,500	600	880	2,900	-	1,100	370	<100	-	<100	-	-	-	-	63.20	23.05	40.15	-	0.9
MW-2	11/17/2003	15,000	-	4,000	140	220	280	-	710	<500	230	-	<200	-	-	-	-	63.20	23.13	40.07	-	1.3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-2	2/3/2004	16,000	-	3,100	89	150	170	-	520	<500	<200	-	<200	-	-	-	-	63.20	21.05	42.15	-	0.2
MW-2	5/17/2004	19,000	-	2,300	260	1,100	2,500	-	1,800	420	160	-	<100	-	-	-	-	63.20	20.52	42.68	-	1.1
MW-2	7/14/2004	29,000	-	6,100	1,800	2,000	3,700	-	980	400	420	-	<100	-	-	-	-	63.20	22.14	41.06	-	1.3
MW-2	12/7/2004	13,000	-	3,100	68	120	150	-	910	680	280	-	<40	-	-	-	-	63.20	21.95	41.25	-	1.1
MW-2	2/22/2005	15,000	-	3,100	84	290	250	-	790	880	200	-	<40	-	-	-	-	63.20	20.11	43.09	-	1.1
MW-2	6/8/2005	23,000	-	2,000	500	2,000	3,100	-	2,900	1,100	120	-	<80	-	-	-	-	63.20	19.32	43.88	-	0.3
MW-2	8/15/2005	31,000	-	3,200	1,500	1,600	3,700	-	1,700	740	220	<200	<200	-	<5,000	-	-	63.20	21.72	41.48	-	0.6
MW-2	12/6/2005	6,300	-	930	120	130	240	-	95	830	59	-	<20	-	-	-	-	63.20	21.21	41.99	-	0.3
MW-2	2/16/2006	18,000	-	790	310	1,100	2,400	-	290	480	36	-	<2.0	-	-	-	-	63.20	16.65	46.55	-	0.4
MW-2	6/5/2006	25,000	-	450	18 i	570	1,400	-	5,000	7,500	21 i	-	16 i	-	-	-	-	63.20	13.96	49.24	-	0.2
MW-2	8/4/2006	28,000	-	310	140	1,200	2,600	-	3,800	7,600	<50	<50	<50	-	<1,200	-	-	63.20	17.93	45.27	-	0.3
MW-2	11/22/2006	24,000	-	640	36	1,300	1,800	-	1,600	9,200	<50	-	<50	-	-	-	-	63.20	19.94	43.26	-	0.19
MW-2	2/7/2007	11,000	-	650	24	590	620	-	1,600	6,700	<40	-	<40	-	-	-	-	63.20	20.00	43.20	-	0.25
MW-2	5/24/2007	14,000 l	-	720	45 m	680	1,137 m	-	1,600	6,300	24 m	-	<100	-	-	-	-	63.20	26.36	36.84	-	0.16
MW-2	8/30/2007	13,000 l	-	1,500	100	440	254	-	670	3,100	51	<20	<20	-	<1,000	-	-	63.20	22.21	40.99	-	0.22
MW-2	11/15/2007	11,000 l	-	1,400	71	160	136	-	250	1,400	29	-	<20	-	-	-	-	63.20	21.24	41.96	-	0.41
MW-2	2/13/2008	8,400 l	-	1,400	60	90	104	-	130	1,500	<20	-	<20	-	-	-	-	63.20	19.29	43.91	-	0.41
MW-2	5/2/2008	14,000	-	970	75	580	804	-	890	2,100	24	-	<20	-	-	-	-	63.20	20.44	42.76	-	1.85
MW-2	8/26/2008	10,000	-	1,300	46	58	47	-	100	470	25	<20	<20	-	<1,000	-	-	63.20	24.10	39.10	-	0.68
MW-2	11/6/2008	9,800	-	1,200	49	49	62	-	120	580	24	-	<20	-	-	-	-	63.20	23.05	40.15	-	0.47
MW-2	1/28/2009	10,000	-	1,100	41	79	41	-	140	410	20	-	<20	-	-	-	-	63.20	22.02	41.18	-	0.66
MW-2	5/12/2009	8,600	-	640	40	70	200	-	110	420	<20	-	<20	-	-	-	-	63.20	20.51	42.69	-	1.84
MW-2	11/3/2009	11,000	-	1,200	42	68	83	-	210	1,100	23	<20	<20	-	<1,000	-	-	63.20	22.80	40.40	-	0.93
MW-2	4/19/2010	6,200	-	1,300	64	74	94	-	150	2,000	30	-	<20	-	-	-	-	63.20	19.78	43.42	-	1.04
MW-2	10/19/2010	13,000	-	1,400	42	75	57	-	100	1,800	26	<20	<20	-	<1,000	-	-	63.20	22.20	41.00	-	1.10
MW-2	4/11/2011	8,400	-	1,100	48	120	210	-	53	980 o	20	<20	<20	-	-	-	-	63.20	16.16	47.04	-	2.53
MW-2	10/7/2011	20,000	-	470	40	640	970	-	380	8,900	-	-	-	-	<3,000	-	-	63.20	19.75	43.45	-	2.11
MW-2	3/9/2012	11,000	-	710	21	58	37	-	200	8,900	-	-	-	-	-	-	-	63.20	20.07	43.13	-	0.42
MW-2	4/24/2012	14,000	-	840	65	140	280	-	180	8,000	-	-	-	-	-	-	-	63.20	18.68	44.52	-	1.02
MW-2	**7/16/2012**	**14,000**	**-**	**880**	**65**	**460**	**440**	**-**	**320**	**7,100**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**63.20**	**21.15**	**42.05**	**-**	**1.17**
MW-3	10/3/1991	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	12/23/1991	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	3/16/1992	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	22.01	42.03	-	-
MW-3	6/26/1992	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	23.91	40.13	-	-
MW-3	9/22/1992	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	25.43	38.61	-	-
MW-3	12/29/1992	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	23.39	40.65	-	-
MW-3	3/23/1993	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	19.24	44.80	-	-
MW-3	6/23/1993	<50	-	<0.5	<0.5	0.8	2.0	-	-	-	-	-	-	-	-	-	-	64.04	20.41	43.63	-	-
MW-3	9/9/1993	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	21.98	42.06	-	-
MW-3	12/7/1993	<50	-	<0.5	0.7	<0.5	0.6	-	-	-	-	-	-	-	-	-	-	64.04	21.50	42.54	-	-
MW-3	3/8/1994	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	19.94	44.10	-	-
MW-3	5/31/1994	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	21.80	42.24	-	-
MW-3	9/7/1994	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	23.93	40.11	-	-

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-3	12/1/1994	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	21.51	42.53	-	-
MW-3	3/6/1995	<50	-	<0.5	<0.5	<0.5	1.8	-	-	-	-	-	-	-	-	-	-	64.04	17.59	46.45	-	-
MW-3	6/14/1995	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	14.01	50.03	-	-
MW-3	8/23/1995	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	17.68	46.36	-	-
MW-3	11/20/1995	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	19.69	44.35	-	-
MW-3	2/7/1996	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.04	17.94	46.10	-	-
MW-3	5/7/1996	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	8/27/1996	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	11/14/1996	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	2/18/1997	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	5/20/1997	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	8/5/1997	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	11/12/1997	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	1/27/1998	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	5/27/1998	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	8/10/1998	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	12/3/1998	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	12/3/1998	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	2/9/1999	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	5/6/1999	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	8/24/1999	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	12/7/1999	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	2/16/2000	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.04	-	-	-	-
MW-3	5/11/2000	<50.0	-	<0.500	<0.500	<0.500	<0.500	<2.50	<1.00	<10	<1.0	<1.0	<1.0	-	<400	<1.0	<1.0	64.04	19.11	44.93	-	0.7
MW-3	8/31/2000	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<5.0	<0.50	<0.50	<0.50	<50	<5.0	<0.50	<0.50	64.04	22.83	41.21	-	1.8
MW-3	11/14/2000	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<5.0	<0.50	<0.50	<0.50	-	-	<0.50	<0.50	64.04	22.07	41.97	-	3.6
MW-3	2/14/2001	<50b	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<10	<1.0	<1.0	<1.0	-	-	<1.0	<2.0	64.04	21.44	42.60	-	1.2
MW-3	6/11/2001	<50	-	<0.50	0.85	<0.50	1.4	-	1.5	<5.0	<0.50	<0.50	<0.50	-	-	<0.50	<0.50	64.04	23.99	40.05	-	1.3
MW-3	8/31/2001	77	-	<0.50	<0.50	2.1	2.9	-	<2.0	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	64.04	25.68	38.36	-	2.1
MW-3	12/3/2001	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	64.04	23.64	40.40	-	2.0
MW-3	2/11/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.79	21.04	42.75	-	1.3
MW-3	6/13/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.79	21.76	42.03	-	0.80
MW-3	8/5/2002	<50	-	1.8	4.0	0.76	3.5	-	3.1	<50	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.79	23.12	40.67	-	1.5
MW-3	11/19/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<10	<2.0	<2.0	<2.0	-	-	-	-	63.79	23.30	40.49	-	2.4
MW-3	3/7/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<10	<2.0	<2.0	<2.0	-	-	-	-	63.79	20.40	43.39	-	2.7
MW-3	4/25/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<50	<2.0	<2.0	<2.0	-	-	-	-	63.79	20.36	43.43	-	2.9
MW-3	8/22/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	64.16 e	24.54	39.62	-	2.4
MW-3	11/17/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	64.16	24.21	39.95	-	2.8
MW-3	2/3/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	64.16	22.04	42.12	-	1.4
MW-3	5/17/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	64.16	21.93	42.23	-	2.4
MW-3	7/14/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	64.16	23.42	40.74	-	2.1
MW-3	12/7/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	64.16	23.03	41.13	-	3.9
MW-3	2/22/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	64.16	21.29	42.87	-	1.9
MW-3	6/8/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	64.16	20.87	43.29	-	2.1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-3	8/15/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	5.2	<2.0	<2.0	<2.0	-	<50	-	-	64.16	23.13	41.03	-	2.2
MW-3	12/6/2005	<50	-	<0.50	<0.50	<0.50	1.3	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	64.16	22.35	41.81	-	1.8
MW-3	2/16/2006	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	<2.0	-	<2.0	-	-	-	-	64.16	17.87	46.29	-	1.1
MW-3	6/5/2006	48 i	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10	<1.0	-	<1.0	-	-	-	-	64.16	15.31	48.85	-	1.4
MW-3	8/4/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	64.16	19.17	44.99	-	1.0
MW-3	11/22/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	64.16	21.17	42.99	-	2.6
MW-3	2/7/2007	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	64.16	21.18	42.98	-	2.5
MW-3	5/24/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	64.16	21.73	42.43	-	3.28
MW-3	8/30/2007	<50 l	-	0.69	<1.0	1.1	2.08 m	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	64.16	23.56	40.60	-	2.89
MW-3	11/15/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	64.16	22.43	41.73	-	2.62
MW-3	2/13/2008	96 l,n	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	64.16	20.41	43.75	-	4.36
MW-3	5/2/2008	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.16	-	-	-	-
MW-3	5/13/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	64.16	21.67	42.49	-	1.25
MW-3	8/26/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	64.16	25.22	38.94	-	2.28
MW-3	11/6/2008	51	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	64.16	24.30	39.86	-	0.56
MW-3	1/28/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	64.16	23.20	40.96	-	2.35
MW-3	5/12/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	64.16	21.77	42.39	-	2.23
MW-3	11/3/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	64.16	24.14	40.02	-	3.23
MW-3	4/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	64.16	21.00	43.16	-	2.59
MW-3	10/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	64.16	23.51	40.65	-	1.93
MW-3	4/11/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10 j	<1.0	<1.0	<1.0 p	-	-	-	-	64.16	17.25	46.91	-	3.80
MW-3	10/7/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10 j	-	-	-	-	<150	-	-	64.16	21.18	42.98	-	2.09
MW-3	3/9/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<10	-	-	-	-	-	-	-	64.16	21.26	42.90	-	2.11
MW-3	4/24/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<10	-	-	-	-	-	-	-	64.16	19.84	44.32	-	0.95
MW-3	**7/16/2012**	**<50**	**-**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**-**	**<0.50**	**<10**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**64.16**	**22.71**	**41.45**	**-**	**2.05**
MW-4	3/16/1992	120 a	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.13	22.12	42.01	-	-
MW-4	6/26/1992	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.13	23.89	40.24	-	-
MW-4	9/22/1992	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.13	25.37	38.76	-	-
MW-4	12/29/1992	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.13	23.42	40.71	-	-
MW-4	3/23/1993	110 a	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.13	19.40	44.73	-	-
MW-4	6/23/1993	170 a	-	0.9	2.2	1.2	7.9	-	-	-	-	-	-	-	-	-	-	64.13	19.49	44.64	-	-
MW-4	9/9/1993	80 a	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.13	21.88	42.25	-	-
MW-4	12/7/1993	310 a	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.13	21.49	42.64	-	-
MW-4	3/8/1994	130	-	1.3	<0.5	<0.5	0.8	-	-	-	-	-	-	-	-	-	-	64.13	20.04	44.09	-	-
MW-4	5/31/1994	300	-	<0.5	1.0	0.5	1.7	-	-	-	-	-	-	-	-	-	-	64.13	21.73	42.40	-	-
MW-4	9/7/1994	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.13	23.97	40.16	-	-
MW-4	12/1/1994	600	-	3.7	2.4	0.9	2.6	-	-	-	-	-	-	-	-	-	-	64.13	22.47	41.66	-	-
MW-4	3/6/1995	140	-	<0.5	0.6	<0.5	1.0	-	-	-	-	-	-	-	-	-	-	64.13	17.65	46.48	-	-
MW-4	6/14/1995	<50	-	<0.5	0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.13	13.98	50.15	-	-
MW-4	8/23/1995	<50	-	5.0	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	64.13	17.89	46.24	-	-
MW-4	11/20/1995	170	-	4.4	0.6	0.6	2.0	-	-	-	-	-	-	-	-	-	-	64.13	19.71	44.42	-	-
MW-4	2/7/1996	93	-	4.7	0.86	<0.5	1.6	-	-	-	-	-	-	-	-	-	-	64.13	18.20	45.93	-	-
MW-4	5/7/1996	<50	-	<0.50	<0.50	<0.50	<0.50	26	-	-	-	-	-	-	-	-	-	64.13	15.57	48.56	-	2.5

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-4	8/27/1996	270	-	32	<0.50	<0.50	<0.50	250	260	-	-	-	-	-	-	-	-	64.13	20.20	43.93	-	3.0
MW-4	11/14/1996	<50	-	<0.50	<0.50	<0.50	0.67	63	-	-	-	-	-	-	-	-	-	64.13	21.38	42.75	-	3.0
MW-4	2/18/1997	<50	-	<0.50	<0.50	<0.50	<0.50	24	-	-	-	-	-	-	-	-	-	64.13	13.13	51.00	-	2.0
MW-4	5/20/1997	<50	-	<0.50	<0.50	<0.50	<0.50	9	-	-	-	-	-	-	-	-	-	64.13	17.86	46.27	-	1.6
MW-4	8/5/1997	55	-	2.3	2.7	0.99	5.0	9.6	-	-	-	-	-	-	-	-	-	64.13	21.11	43.02	-	2.5
MW-4	11/12/1997	<50	-	<0.50	<0.50	<0.50	<0.50	3.3	-	-	-	-	-	-	-	-	-	64.13	22.12	42.01	-	1.7
MW-4	1/27/1998	<50	-	0.56	<0.50	<0.50	0.94	<2.5	3.1	<2.0	30	<2.0	<2.0	-	<500	-	-	64.13	19.36	44.77	-	1.8
MW-4	5/27/1998	<50	-	<0.30	<0.30	<0.30	<0.30	<10	3.2	<100	30	<2.0	<2.0	-	<500	-	-	64.13	15.19	48.94	-	1.6
MW-4	8/10/1998	<50	-	<0.50	<0.50	<0.50	<0.50	4.1	3.5	<100	6.8	<2.0	<2.0	-	<500	-	-	64.13	18.92	45.21	-	1.8
MW-4	12/3/1998	<50.0	-	<0.500	<0.500	<0.500	<0.500	3.6	3.5	<20	4.55	<1.0	<1.0	-	<100	<0.50	<0.50	64.13	19.72	44.41	-	1.6
MW-4	2/9/1999	<50.0	-	<0.500	<0.500	<0.500	<0.500	<2.00	-	<20	2.87	<1.0	<1.0	-	<100	<0.50	<0.50	64.13	18.52	45.61	-	1.4
MW-4	5/6/1999	289	-	15.1	34.4	10.4	53.1	<5.00	2.84	<200	3.09	<2.0	<2.0	-	<25,000	-	-	64.13	17.89	46.24	-	0.7
MW-4	8/24/1999	<50.0	-	0.926	0.585	<0.500	1.69	16.6	10.9	<200	3.09	<2.0	<2.0	-	<1,000	-	-	64.13	20.36	43.77	-	0.08
MW-4	12/7/1999	<100	-	<1.00	<1.00	<1.00	<1.00	1,330	1,250	<2,000	<20	<20	<20	-	<10,000	-	-	64.13	21.66	42.47	-	0.07
MW-4	2/16/2000	<50.0	-	<0.500	<0.500	<0.500	<0.500	639	805	-	-	-	-	-	-	-	-	64.13	21.43	42.70	-	2.9
MW-4	5/11/2000	<500	-	<5.00	<5.00	<5.00	<5.00	11,800	11,500	<1,000	<1,000	<1,000	<1,000	-	<400,000	<1,000	<1,000	64.13	19.16	44.97	-	2.6
MW-4	8/31/2000	<500	-	<5.0	<5.0	<5.0	<5.0	-	13,000	<50	<5.0	<5.0	55	<500	<50	<5.0	<5.0	64.13	22.80	41.33	-	1.8
MW-4	11/14/2000	<500	-	<5.0	<5.0	<5.0	<5.0	-	14,000	680	<5.0	<5.0	38	-	-	<5.0	<5.0	64.13	22.08	42.05	-	2.6
MW-4	2/14/2001	11,000 b	-	<20	<20	<20	<20	-	19,000	<1,000	<50	<50	80	-	-	<50	<200	64.13	21.54	42.59	-	0.6
MW-4	6/11/2001	c	-	c	c	c	c	-	c	-	-	-	-	-	-	-	-	64.13	23.77	40.36	-	1.6
MW-4	6/21/2001	<100	-	<1.0	<1.0	<1.0	1.2	-	2,000	170	<1.0	<1.0	11	-	-	<1.0	<1.0	64.13	24.26	39.87	-	-
MW-4	8/31/2001	<50	-	<0.50	<0.50	<0.50	<0.50	-	81	<12	<2.0	<2.0	42	-	-	<2.0	<2.0	64.13	25.49	38.64	-	0.3
MW-4	12/3/2001	78	-	<0.50	<0.50	<0.50	0.78	-	6,800	3,300	<2.0	<2.0	42	-	-	<2.0	<2.0	64.13	23.68	40.45	-	0.2
MW-4	2/11/2002	<500	-	<5.0	<5.0	<5.0	<5.0	-	1,800	16,000	<5.0	<5.0	7.8	-	-	<5.0	<5.0	63.85	21.05	42.80	-	0.7
MW-4	6/13/2002	<100	-	<1.0	<1.0	<1.0	<1.0	-	280	2,900	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.85	21.30	42.55	-	0.80
MW-4	8/5/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	160	1,800	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.85	22.98	40.87	-	0.6
MW-4	11/19/2002	110	-	3.3	0.70	1.4	3.4	-	2,900	9,000	<2.0	<2.0	17	-	-	-	-	63.85	23.33	40.52	-	1.0
MW-4	3/7/2003	<200	-	<2.0	<2.0	<2.0	<2.0	-	870	4,600	<2.0	<2.0	3.4	-	-	-	-	63.85	20.38	43.47	-	2.2
MW-4	4/25/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	61	330	<2.0	<2.0	<2.0	-	-	-	-	63.85	20.13	43.72	-	0.2
MW-4	8/22/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	39	400	<2.0	-	<2.0	-	-	-	-	63.85	23.91	39.94	-	1.3
MW-4	11/17/2003	<100	-	<1.0	<1.0	<1.0	<2.0	-	68	1,800	<4.0	-	<4.0	-	-	-	-	63.85	23.77	40.08	-	0.9
MW-4	2/3/2004	<500	-	<5.0	<5.0	<5.0	<10	-	57	4,600	<20	-	<20	-	-	-	-	63.85	21.62	42.23	-	0.2
MW-4	5/17/2004	<500	-	<5.0	<5.0	<5.0	<10	-	13	7,000	<20	-	<20	-	-	-	-	63.85	21.33	42.52	-	0.9
MW-4	7/14/2004	<500	-	<5.0	<5.0	<5.0	<10	-	19	1,700	<20	-	<20	-	-	-	-	63.85	22.82	41.03	-	0.6
MW-4	12/7/2004	<100	-	<1.0	<1.0	<1.0	<2.0	-	37	1,700	<4.0	-	<4.0	-	-	-	-	63.85	22.56	41.29	-	1.2
MW-4	2/22/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	11	410	<2.0	-	<2.0	-	-	-	-	63.85	20.78	43.07	-	1.2
MW-4	6/8/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	4.1	660	<2.0	-	<2.0	-	-	-	-	63.85	20.23	43.62	-	0.3
MW-4	8/15/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	3.9	2,100	<2.0	<2.0	<2.0	-	<50	-	-	63.85	22.47	41.38	-	0.4
MW-4	12/6/2005	<250	-	<2.5	<2.5	<2.5	<5.0	-	6.0	1,600	<10	-	<10	-	-	-	-	63.85	21.87	41.98	-	0.4
MW-4	2/16/2006	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	170	<2.0	-	<2.0	-	-	-	-	63.85	17.45	46.40	-	0.8
MW-4	6/5/2006	450/480 i	-	<10	<10	<10	<20	-	11 i	20,000	<20	-	<20	-	-	-	-	63.85	14.47	49.38	-	0.3
MW-4	8/4/2006	1,400	-	<0.50	<0.50	<0.50	<1.0	-	2.8	43,000	<2.0	<2.0	<2.0	-	<50	-	-	63.85	18.61	45.24	-	0.18
MW-4	11/22/2006	<250	-	<2.5	<2.5	<2.5	<5.0	-	<2.5	1,900	<10	-	<10	-	-	-	-	63.85	20.63	43.22	-	0.29
MW-4	2/7/2007	82	-	<0.50	<0.50	<0.50	<1.0	-	1.7	1,700	<2.0	-	<2.0	-	-	-	-	63.85	20.40	43.45	-	0.22

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-4	5/24/2007	260 l	-	<0.50	<1.0	<1.0	<1.0	-	11	13,000	<2.0	-	<2.0	-	-	-	-	63.85	21.08	42.77	-	0.32
MW-4	8/30/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	1.4	310	<2.0	<2.0	<2.0	-	<100	-	-	63.85	23.00	40.85	-	0.24
MW-4	11/15/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	1.8	810	<2.0	-	<2.0	-	-	-	-	63.85	21.90	41.95	-	0.41
MW-4	2/13/2008	72 l,n	-	0.56	<1.0	<1.0	<1.0	-	1.2	260	<2.0	-	<2.0	-	-	-	-	63.85	19.91	43.94	-	0.45
MW-4	5/2/2008	150	-	<0.50	<1.0	<1.0	<1.0	-	2.5	3,000	<2.0	-	<2.0	-	-	-	-	63.85	21.10	42.75	-	0.39
MW-4	8/26/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	390	<2.0	<2.0	<2.0	-	<100	-	-	63.85	24.22	39.63	-	0.45
MW-4	11/6/2008	69	-	<0.50	<1.0	<1.0	<1.0	-	1.5	770	<2.0	-	<2.0	-	-	-	-	63.85	23.75	40.10	-	0.56
MW-4	1/28/2009	92	-	<0.50	<1.0	<1.0	<1.0	-	5.0	1,900	<2.0	-	<2.0	-	-	-	-	63.85	22.70	41.15	-	0.55
MW-4	5/12/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	4.3	400	<2.0	-	<2.0	-	-	-	-	63.85	21.21	42.64	-	1.25
MW-4	11/3/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	1.7	630	<2.0	<2.0	<2.0	-	<100	-	-	63.85	23.51	40.34	-	2.74
MW-4	4/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	94	<2.0	-	<2.0	-	-	-	-	63.85	20.65	43.20	-	2.12
MW-4	10/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	430	<2.0	<2.0	<2.0	-	<100	-	-	63.85	22.92	40.93	-	1.18
MW-4	4/11/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10 j	<1.0	<1.0	<1.0	-	-	-	-	63.85	16.72	47.13	-	1.91
MW-4	10/7/2011	63q	-	<0.50	<0.50	<0.50	<1.0	-	1.5	1,400	-	-	-	-	<150	-	-	63.85	20.52	43.33	-	0.93
MW-4	3/9/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.5	240	-	-	-	-	-	-	-	63.85	20.60	43.25	-	2.49
MW-4	4/24/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	28	-	-	-	-	-	-	-	63.85	19.34	44.51	-	1.83
MW-4	**7/16/2012**	**<100**	**-**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**-**	**1.5**	**700**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**63.85**	**21.97**	**41.88**	**-**	**2.18**
MW-5	3/16/1992	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	62.47	20.38	42.09	-	-
MW-5	6/26/1992	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	62.47	22.02	40.45	-	-
MW-5	9/22/1992	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	62.47	23.57	38.90	-	-
MW-5	12/29/1992	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	62.47	21.78	40.69	-	-
MW-5	3/23/1993	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	62.47	17.66	44.81	-	-
MW-5	6/23/1993	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	62.47	18.92	43.55	-	-
MW-5	9/9/1993	<50	-	<0.5	0.7	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	62.47	19.98	42.49	-	-
MW-5	12/7/1993	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	62.47	19.76	42.71	-	-
MW-5	3/8/1994	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	62.47	18.44	44.03	-	-
MW-5	5/31/1994	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	62.47	19.98	42.49	-	-
MW-5	9/7/1994	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	62.47	22.32	40.15	-	-
MW-5	12/1/1994	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	62.47	20.70	41.77	-	-
MW-5	3/6/1995	<50	-	<0.5	<0.5	<0.5	0.7	-	-	-	-	-	-	-	-	-	-	62.47	16.12	46.35	-	-
MW-5	6/14/1995	50	-	1.0	3.8	1.5	6.3	-	-	-	-	-	-	-	-	-	-	62.47	12.12	50.35	-	-
MW-5	8/23/1995	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	62.47	15.93	46.54	-	-
MW-5	11/20/1995	<50	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	62.47	17.99	44.48	-	-
MW-5	2/7/1996	<50	-	<0.5	1.2	0.7	2.7	-	-	-	-	-	-	-	-	-	-	62.47	16.44	46.03	-	-
MW-5	5/7/1996	<50	-	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	62.47	13.86	48.61	-	2.7
MW-5	8/27/1996	<50	-	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	62.47	18.44	44.03	-	5.8
MW-5	11/14/1996	<50	-	<0.50	<0.50	<0.50	<0.50	9.1	-	-	-	-	-	-	-	-	-	62.47	19.60	42.87	-	5.2
MW-5	2/18/1997	<50	-	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	62.47	11.54	50.93	-	3.6
MW-5	5/20/1997	<50	-	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	62.47	16.98	45.49	-	2.2
MW-5	8/5/1997	<50	-	1.1	0.9	0.26	1.5	<2.5	-	-	-	-	-	-	-	-	-	62.47	19.34	43.13	-	4.5
MW-5	11/12/1997	<50	-	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	62.47	20.44	42.03	-	1.0
MW-5	1/27/1998	<50	-	<0.50	<0.50	<0.50	<0.50	<2.5	<2.0	<100	<2.0	<2.0	<2.0	-	<500	-	-	62.47	17.62	44.85	-	3.3
MW-5	5/27/1998	<50	-	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	-	-	-	-	62.47	13.38	49.09	-	1.5

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-5	8/10/1998	<50	-	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	62.47	17.12	45.35	-	1.3
MW-5	12/3/1998	<50.0	-	<0.500	<0.500	<0.500	<0.500	<2.00	-	-	-	-	-	-	-	-	-	62.47	17.93	44.54	-	1.0
MW-5	2/9/1999	635	-	25.0	25.5	18.5	62.8	<20.0	-	-	-	-	-	-	-	-	-	62.47	16.98	45.49	-	1.2
MW-5	5/6/1999	<50.0	-	<0.500	<0.500	<0.500	<0.500	<5.00	-	-	-	-	-	-	-	-	-	62.47	18.27	44.20	-	0.8
MW-5	8/24/1999	56.4	-	<0.500	<0.500	<0.500	<0.500	3.47	-	-	-	-	-	-	-	-	-	62.47	20.72	41.75	-	1.0
MW-5	12/7/1999	<50.0	-	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-	-	62.47	20.04	42.43	-	1.0
MW-5	2/16/2000	<50.0	-	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-	-	62.47	21.10	41.37	-	0.09
MW-5	5/11/2000	<50.0	-	<0.500	<0.500	<0.500	<0.500	<2.50	<1.00	<20	<1.0	<1.0	<1.0	-	<400	<1.0	<1.0	62.47	17.39	45.08	-	0.2
MW-5	8/31/2000	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<5.0	<0.50	<0.50	<0.50	<50	<5.0	<0.50	<0.50	62.47	20.99	41.48	-	2.4
MW-5	11/14/2000	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<5.0	<0.50	<0.50	<0.50	-	-	<0.50	<0.50	62.47	20.36	42.11	-	2.2
MW-5	2/14/2001	<50 b	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<10	<1.0	<1.0	<1.0	-	-	<1.0	<2.0	62.47	19.88	42.59	-	3.1
MW-5	6/11/2001	<50	-	<0.50	0.77	<0.50	1.6	-	0.59	<5.0	<0.50	<0.50	<0.50	-	-	<0.50	<0.50	62.47	21.85	40.62	-	5.0
MW-5	8/31/2001	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	62.47	23.66	38.81	-	4.97
MW-5	12/3/2001	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	62.47	22.04	40.43	-	4.8
MW-5	2/11/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	62.21	19.35	42.86	-	1.4
MW-5	6/13/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	62.21	19.18	43.03	-	0.70
MW-5	8/5/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<50	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	62.21	21.20	41.01	-	1.7
MW-5	11/19/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<10	<2.0	<2.0	<2.0	-	-	-	-	62.21	21.70	40.51	-	6.0
MW-5	3/7/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	1.9	<10	<2.0	<2.0	<2.0	-	-	-	-	62.21	18.64	43.57	-	1.9
MW-5	4/25/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<50	<2.0	<2.0	<2.0	-	-	-	-	62.21	18.42	43.79	-	4.2
MW-5	8/22/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.21	22.06	40.15	-	4.4
MW-5	11/17/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.21	22.17	40.04	-	3.9
MW-5	2/3/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.21	19.92	42.29	-	0.8
MW-5	5/17/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.21	19.64	42.57	-	3.6
MW-5	7/14/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.21	21.12	41.09	-	3.5
MW-5	12/7/2004	55 a	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.21	20.93	41.28	-	2.7
MW-5	2/22/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.21	19.08	43.13	-	2.1
MW-5	6/8/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.21	18.47	43.74	-	3.3
MW-5	8/15/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	62.21	20.72	41.49	-	2.3
MW-5	12/6/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.21	21.07	41.14	-	1.4
MW-5	2/16/2006	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	<2.0	-	<2.0	-	-	-	-	62.21	16.10	46.11	-	3.1
MW-5	6/5/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10	<1.0	-	<1.0	-	-	-	-	62.21	12.91	49.30	-	1.7
MW-5	8/4/2006	53	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	62.21	17.42	44.79	-	1.5
MW-5	11/22/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.21	18.91	43.30	-	4.6
MW-5	2/7/2007	<50	-	<0.50	0.76	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.21	19.00	43.21	-	5.0
MW-5	5/24/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	62.21	19.34	42.87	-	4.18
MW-5	8/30/2007	<50 l	-	0.18 m	<1.0	0.40 m	0.57 m	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	62.21	21.20	41.01	-	4.0
MW-5	11/15/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	62.21	20.23	41.98	-	1.74
MW-5	2/13/2008	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	62.21	18.15	44.06	-	3.23
MW-5	5/2/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	62.21	19.33	42.88	-	3.25
MW-5	8/26/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	62.21	22.67	39.54	-	1.80
MW-5	11/6/2008	1,400	-	170	5.0	8.9	5.7	-	37	78	3.5	-	<2.0	-	-	-	-	62.21	23.30	38.91	-	0.64
MW-5	1/28/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	62.21	21.00	41.21	-	1.24
MW-5	5/12/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	62.21	19.52	42.69	-	1.46

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-5	11/3/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	62.21	21.73	40.48	-	2.84
MW-5	4/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	62.21	18.78	43.43	-	2.37
MW-5	10/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	62.21	21.17	41.04	-	1.11
MW-5	4/11/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10 j	<1.0	<1.0	<1.0	-	-	-	-	62.21	18.60	43.61	-	3.75
MW-5	10/7/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10 j	-	-	-	-	<150	-	-	62.21	18.75	43.46	-	3.68
MW-5	3/9/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<10	-	-	-	-	-	-	-	62.21	19.01	43.20	-	0.67
MW-5	4/24/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<10	-	-	-	-	-	-	-	62.21	17.16	45.05	-	0.39
MW-5	**7/16/2012**	**<50**	-	**<0.50**	**<0.50**	**<0.50**	**<1.0**	-	**<0.50**	**<10**	-	-	-	-	-	-	-	**62.21**	**20.15**	**42.06**	-	**2.19**
MW-6	3/16/1992	19,000	-	350	43	1,000	1,800	-	-	-	-	-	-	-	-	-	-	63.32	21.19	42.13	-	-
MW-6	6/26/1992	19,000	-	160	14	350	960	-	-	-	-	-	-	-	-	-	-	63.32	22.87	40.45	-	-
MW-6	9/22/1992	9,900	-	190	35	30	730	-	-	-	-	-	-	-	-	-	-	63.32	24.39	38.93	0.01	-
MW-6	12/29/1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.32	22.60	40.72	-	-
MW-6	3/23/1993	21,000	-	64	5.5	940	2,000	-	-	-	-	-	-	-	-	-	-	63.32	18.51	44.81	-	-
MW-6	6/23/1993	21,000	-	63	44	400	3,700	-	-	-	-	-	-	-	-	-	-	63.32	19.44	43.88	-	-
MW-6	9/9/1993	15,000	-	190	36	520	1,400	-	-	-	-	-	-	-	-	-	-	63.32	20.78	42.54	-	-
MW-6	12/7/1993	7,800	-	86	15	150	740	-	-	-	-	-	-	-	-	-	-	63.32	20.64	42.68	-	-
MW-6	3/8/1994	8,800	-	30	63	170	670	-	-	-	-	-	-	-	-	-	-	63.32	19.20	44.12	-	-
MW-6	5/31/1994	6,100	-	29	9	67	350	-	-	-	-	-	-	-	-	-	-	63.32	20.65	42.67	-	-
MW-6	9/7/1994	3,900	-	27	54	39	210	-	-	-	-	-	-	-	-	-	-	63.32	22.87	40.45	-	-
MW-6	12/1/1994	1,300	-	1.7	0.9	7.0	22	-	-	-	-	-	-	-	-	-	-	63.32	21.43	41.89	-	-
MW-6	3/6/1995	3,600	-	33	12	100	210	-	-	-	-	-	-	-	-	-	-	63.32	19.00	44.32	-	-
MW-6	6/14/1995	14,000	-	32	<0.5	570	1,600	-	-	-	-	-	-	-	-	-	-	63.32	13.65	49.67	-	-
MW-6	8/23/1995	13,000	-	18	12	850	3,900	-	-	-	-	-	-	-	-	-	-	63.32	16.72	46.60	-	-
MW-6	11/20/1995	8,700	-	50	<0.5	340	620	-	-	-	-	-	-	-	-	-	-	63.32	18.83	44.49	-	-
MW-6	2/7/1996	1,400	-	8	<0.5	3.8	32	-	-	-	-	-	-	-	-	-	-	63.32	17.23	46.09	-	-
MW-6	5/7/1996	23,000	-	<100	<100	400	1,100	<500	-	-	-	-	-	-	-	-	-	63.32	14.79	48.53	-	3.9
MW-6	8/27/1996	13,000	-	84	<50	360	960	<250	-	-	-	-	-	-	-	-	-	63.32	19.34	43.98	-	2.5
MW-6	11/14/1996	12,000	-	91	13	480	760	<50	-	-	-	-	-	-	-	-	-	63.32	20.49	42.83	-	2.4
MW-6	2/18/1997	3,000	-	6.6	<5.0	88	72	<25	-	-	-	-	-	-	-	-	-	63.32	12.69	50.63	-	1.2
MW-6	5/20/1997	22,000	-	<50	<50	610	1,700	<250	-	-	-	-	-	-	-	-	-	63.32	16.80	46.52	-	1.8
MW-6	8/5/1997	11,000	-	120	29	420	810	<100	-	-	-	-	-	-	-	-	-	63.32	20.25	43.07	-	2.3
MW-6	11/12/1997	7,000	-	120	16	260	340	<50	-	-	-	-	-	-	-	-	-	63.32	21.30	42.02	-	0.8
MW-6	1/27/1998	8,600	-	36	12	640	1,400	<50	<100	<5,000	<100	<100	<100	-	<25,000	-	-	63.32	18.66	44.66	-	-
MW-6	5/27/1998	13,000	-	18	<6.0	370	960	<40	-	-	-	-	-	-	-	-	-	63.32	14.38	48.94	-	1.5
MW-6	8/10/1998	14,000	-	92	18	550	1,100	110	-	-	-	-	-	-	-	-	-	63.32	17.74	45.58	-	1.2
MW-6	12/3/1998	12,500	-	102	15	402	649	27	-	-	-	-	-	-	-	-	-	63.32	18.41	44.91	-	1.0
MW-6	2/9/1999	4,250	-	38.8	<5.00	80.7	32.3	<20.0	-	-	-	-	-	-	-	-	-	63.32	17.49	45.83	-	1.4
MW-6	5/6/1999	19,400	-	28.3	<25.0	610	1,670	<250	-	-	-	-	-	-	-	-	-	63.32	18.72	44.60	-	1.1
MW-6	8/24/1999	43,300	-	520	2,560	2,220	14,500	790	-	-	-	-	-	-	-	-	-	63.32	21.34	41.98	-	1.0
MW-6	12/7/1999	3,370	-	58.9	14.5	180	257	46.8	-	-	-	-	-	-	-	-	-	63.32	20.98	42.34	-	0.06
MW-6	2/16/2000	15,300	-	38.2	<20.0	458	871	<100	-	-	-	-	-	-	-	-	-	63.32	20.75	42.57	-	1.4
MW-6	5/11/2000	13,000	-	50.5	<20.0	484	754	<100	<1.00	<20	<1.0	<1.0	<1.0	-	<400	<1.0	<1.0	63.32	18.24	45.08	-	1.7
MW-6	8/31/2000	12,000	-	94	14	430	420	-	5.0	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	63.32	21.77	41.55	-	2.8

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-6	11/14/2000	10,000	-	58	9.4	270	330	-	6.6	<10	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	63.32	21.23	42.09	-	2.0
MW-6	2/14/2001	8,000 b	-	110	14	340	370	-	4.0	<10	<5.0	<5.0	<5.0	-	-	<1.0	<1.0	63.32	20.83	42.49	-	0.6
MW-6	6/11/2001	4,200	-	39	7.4	94	110	-	3.6	<10	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	63.32	22.63	40.69	-	0.2
MW-6	8/31/2001	2,100,000	-	37	6.2	1,800	2,900	-	<2.5	<25	<2.5	<2.5	<2.5	-	-	<2.5	<2.5	63.32	24.51	38.81	-	0.2
MW-6	10/12/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.32	24.64	38.70	0.03	-
MW-6	12/3/2001	34,000	-	24	4.6	230	290	-	4.0	<20	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.32	22.93	40.39	-	0.2
MW-6	2/11/2002	28,000	-	130	15	610	690	-	<2.5	<25	<2.5	<2.5	<2.5	-	-	<2.5	<2.5	63.05	20.40	42.65	-	0.7
MW-6	6/13/2002	11,000	-	65	9.5	190	190	-	2.3	<20	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.05	20.39	42.66	-	0.65
MW-6	8/5/2002	11,000	-	82	11	390	260	-	<2.0	<20	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.05	22.09	40.96	-	0.7
MW-6	11/19/2002	2,600	-	14	2.2	67	46	-	5.6	<10	<2.0	<2.0	<2.0	-	-	-	-	63.05	22.62	40.43	-	0.8
MW-6	3/7/2003	11,000	-	99	12	350	260	-	<0.50	<10	<2.0	<2.0	<2.0	-	-	-	-	63.05	19.63	43.42	-	1.0
MW-6	4/25/2003	10,000	-	89	10	350	280	-	<2.0	<50	<2.0	<2.0	<2.0	-	-	-	-	63.05	19.37	43.68	-	0.8
MW-6	8/22/2003	12,000	-	82	11	300	170	-	<10	<100	<40	-	<40	-	-	-	-	63.05	22.68	40.37	-	0.9
MW-6	11/17/2003	11,000	-	49	8.3	180	79	-	<5.0	<50	<20	-	<20	-	-	-	-	63.05	23.00	40.05	-	1.2
MW-6	2/3/2004	15,000	-	140	21	420	260	-	<5.0	<50	<20	-	<20	-	-	-	-	63.05	20.85	42.20	-	1.2
MW-6	5/17/2004	8,100	-	93	15	250	180	-	<5.0	<50	<20	-	<20	-	-	-	-	63.05	20.43	42.62	-	0.9
MW-6	7/14/2004	8,800	-	110	12	340	180	-	<5.0	<50	<20	-	<20	-	-	-	-	63.05	21.84	41.21	-	0.3
MW-6	12/7/2004	9,200	-	75	13	160	95	-	<5.0	<50	<20	-	<20	-	-	-	-	63.05	21.80	41.25	-	1.7
MW-6	2/22/2005	12,000	-	59	8.2	170	130	-	<5.0	<50	<20	-	<20	-	-	-	-	63.05	20.03	43.02	-	1.3
MW-6	6/8/2005	13,000	-	92	13	260	170	-	<5.0	<50	<20	-	<20	-	-	-	-	63.05	19.46	43.59	-	0.4
MW-6	8/15/2005	9,700	-	56	7.5	140	90	-	<5.0	<50	<20	<20	<20	-	<500	-	-	63.05	21.58	41.47	-	0.4
MW-6	12/6/2005	82,000	-	900	160	1,600	1,300	-	<5.0	310	<20	-	<20	-	-	-	-	63.05	21.18	41.87	-	0.3
MW-6	2/16/2006	4,400	-	22	4.0	65	39	-	<2.0	<12	<2.0	-	<2.0	-	-	-	-	63.05	16.48	46.57	-	0.5
MW-6	6/5/2006	16,000	-	20	2.3 i	350	280	-	<5.0	<50	<5.0	-	<5.0	-	-	-	-	63.05	13.92	49.13	-	0.4
MW-6	8/4/2006	7,300	-	20	2.8	240	170	-	<2.5	<25	<10	<10	<10	-	<250	-	-	63.05	17.82	45.23	-	0.5
MW-6	11/22/2006	8,500	-	35	4.4	63	40	-	<2.5	<25	<10	-	<10	-	-	-	-	63.05	19.79	43.26	-	0.26
MW-6	2/7/2007	6,600	-	43	9.7	68	50	-	<2.5	<25	<10	-	<10	-	-	-	-	63.05	19.93	43.12	-	0.31
MW-6	5/24/2007	5,900 l	-	59	8.0	120	78.8	-	<1.0	<10	0.71 m	-	<2.0	-	-	-	-	63.05	20.21	42.84	-	0.25
MW-6	8/30/2007	4,700 l,n	-	50	7.5	120	64.3	-	<1.0	<10	0.61 m	<2.0	<2.0	-	<100	-	-	63.05	22.00	41.05	-	0.29
MW-6	11/15/2007	6,400 l	-	20	3.8	34	23.2	-	0.88 m	<10	<2.0	-	<2.0	-	-	-	-	63.05	21.14	41.91	-	0.36
MW-6	2/13/2008	690 l	-	72	8.2	230	105.8	-	<2.0	<20	<4.0	-	<4.0	-	-	-	-	63.05	19.16	43.89	-	0.76
MW-6	5/2/2008	6,000	-	60	8.0	120	63.6	-	<2.0	<20	<4.0	-	<4.0	-	-	-	-	63.05	20.21	42.84	-	2.47
MW-6	8/26/2008	4,300	-	37	5.4	78	35	-	<2.0	<20	<4.0	<4.0	<4.0	-	<200	-	-	63.05	23.45	39.60	-	0.90
MW-6	11/6/2008	180	-	<1.0	<2.0	<2.0	<2.0	-	3.0	1,200	<4.0	-	<4.0	-	-	-	-	63.05	22.90	40.15	-	0.39
MW-6	1/28/2009	12,000	-	52	7.8	91	60	-	<2.0	<20	<4.0	-	<4.0	-	-	-	-	63.05	21.96	41.09	-	3.13
MW-6	5/12/2009	11,000	-	71	<10	120	72	-	<10	<100	<20	-	<20	-	-	-	-	63.05	20.44	42.61	-	2.02
MW-6	11/3/2009	6,900	-	74	9.1	95	47	-	<2.0	<20	<4.0	<4.0	<4.0	-	<200	-	-	63.05	22.64	40.41	-	1.93
MW-6	4/19/2010	6,700	-	120	13	230	86	-	<2.0	<20	<4.0	-	<4.0	-	-	-	-	63.05	19.64	43.41	-	1.77
MW-6	10/19/2010	17,000	-	56	7.7	62	36	-	<5.0	<50	<10	<10	<10	-	<500	-	-	63.05	22.00	41.05	-	0.94
MW-6	4/11/2011	4,200	-	8.4	1.1	38	7.6	-	<1.0	<10 j	<1.0	<1.0	<1.0	-	-	-	-	63.05	19.57	43.48	-	1.49
MW-6	10/7/2011	9,400	-	44	6.1	56	34	-	<1.0	<10	-	-	-	-	<150	-	-	63.05	19.62	43.43	-	0.77
MW-6	3/9/2012	7,100	-	53	6.1	66	36	-	<2.0	<40	-	-	-	-	-	-	-	63.05	19.96	43.09	-	1.26
MW-6	4/24/2012	9,900	-	24	2.6	57	22	-	<0.50	<10	-	-	-	-	-	-	-	63.05	18.40	44.65	-	0.29
MW-6	**7/16/2012**	**7,800**	-	**62**	**8.1**	**100**	**48**	-	**<5.0**	**<100**	-	-	-	-	-	-	-	**63.05**	**20.86**	**42.19**	-	**0.72**

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-7	11/20/1995	100	-	0.6	0.6	0.7	2.6	-	-	-	-	-	-	-	-	-	-	63.83	19.37	44.46	-	-
MW-7	2/7/1996	96	-	0.8	3.0	1.7	6.5	-	-	-	-	-	-	-	-	-	-	63.83	17.74	46.09	-	-
MW-7	5/7/1996	<50	-	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	63.83	15.13	48.70	-	3.0
MW-7	8/27/1996	<50	-	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	63.83	19.71	44.12	-	3.2
MW-7	11/14/1996	<50	-	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	63.83	21.00	42.83	-	2.9
MW-7	2/18/1997	<50	-	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	63.83	12.84	50.99	-	2.5
MW-7	5/20/1997	<50	-	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	63.83	17.48	46.35	-	1.8
MW-7	8/5/1997	290	-	25	22	6.4	36	3.2	-	-	-	-	-	-	-	-	-	63.83	20.82	43.01	-	4.2
MW-7	11/12/1997	50	-	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	63.83	21.81	42.02	-	0.5
MW-7	1/27/1998	<50	-	<0.50	<0.50	<0.50	0.6	<2.5	2.1	<2.0	<2.0	<2.0	<2.0	-	<500	-	-	63.83	19.08	44.75	-	1.8
MW-7	5/27/1998	<50	-	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	-	-	-	-	63.83	14.85	48.98	-	1.5
MW-7	8/10/1998	<50	-	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-	-	63.83	18.43	45.40	-	1.6
MW-7	12/3/1998	<50.0	-	<0.500	<0.500	<0.500	<0.500	3.2	-	-	-	-	-	-	-	-	-	63.83	19.36	44.47	-	1.2
MW-7	2/9/1999	<50.0	-	<0.500	<0.500	<0.500	<0.500	<2.00	-	-	-	-	-	-	-	-	-	63.83	18.47	45.36	-	1.2
MW-7	5/6/1999	<50.0	-	<0.500	<0.500	<0.500	<0.500	<5.00	-	-	-	-	-	-	-	-	-	63.83	17.58	46.25	-	0.8
MW-7	8/24/1999	<50.0	-	<0.500	<0.500	<0.500	<0.500	3.03	-	-	-	-	-	-	-	-	-	63.83	21.98	41.85	-	1.2
MW-7	12/7/1999	<50.0	-	<0.500	<0.500	<0.500	<0.500	6.27	-	-	-	-	-	-	-	-	-	63.83	21.39	42.44	-	0.08
MW-7	2/16/2000	<50.0	-	<0.500	<0.500	<0.500	<0.500	6.09	-	-	-	-	-	-	-	-	-	63.83	21.15	42.68	-	1.9
MW-7	5/11/2000	52.4	-	<0.500	<0.500	<0.500	<0.500	11.3	8.97	<20	<1.0	<1.0	<1.0	-	<400	<1.0	<1.0	63.83	18.62	45.21	-	2.2
MW-7	8/31/2000	<50	-	<0.50	<0.50	<0.50	<0.50	-	12	<5.0	<0.50	<0.50	0.60	<50	<5.0	<0.50	<0.50	63.83	22.31	41.52	-	1.8
MW-7	11/14/2000	<50	-	<0.50	<0.50	<0.50	<0.50	-	14	<5.0	<0.50	<0.50	0.79	-	-	<0.50	<0.50	63.83	21.75	42.08	-	2.6
MW-7	2/14/2001	<50b	-	<0.50	<0.50	<0.50	<0.50	-	9.8	<10	<1.0	<1.0	<1.0	-	-	<1.0	<2.0	63.83	21.26	42.57	-	0.8
MW-7	6/11/2001	710	-	17	47	11	94	-	39	<5.0	<0.50	<0.50	0.74	-	-	<0.50	<0.50	63.83	23.26	40.57	-	0.2
MW-7	8/31/2001	<50	-	<0.50	<0.50	<0.50	<0.50	-	10	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.83	25.08	38.75	-	0.2
MW-7	12/3/2001	<50	-	<0.50	<0.50	<0.50	<0.50	-	7.5	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.83	23.46	40.37	-	0.2
MW-7	2/11/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	6.7	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.56	20.82	42.74	-	0.4
MW-7	6/13/2002	<50	-	<0.50	<0.50	<0.50	1.1	-	5.0	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.56	21.18	42.38	-	0.25
MW-7	8/5/2002	<50	-	<0.50	1.3	<0.50	1.2	-	6.1	<5.0	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.56	22.65	40.91	-	1.3
MW-7	11/19/2002	76	-	1.2	<0.50	2.5	7.1	-	5.7	<10	<2.0	<2.0	<2.0	-	-	-	-	63.56	23.10	40.46	-	2.2
MW-7	3/7/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	6.2	<10	<2.0	<2.0	<2.0	-	-	-	-	63.56	20.09	43.47	-	d
MW-7	4/25/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	5.8	<50	<2.0	<2.0	<2.0	-	-	-	-	63.56	19.85	43.71	-	0.8
MW-7	8/22/2003	100 a	-	<0.50	<0.50	<0.50	<1.0	-	5.6	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	23.31	40.25	-	1.0
MW-7	11/17/2003	80 a	-	<0.50	<0.50	<0.50	<1.0	-	5.1	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	23.45	40.11	-	0.7
MW-7	2/3/2004	160 a	-	<0.50	<0.50	<0.50	1.7	-	5.0	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	21.33	42.23	-	0.0
MW-7	5/17/2004	84 a	-	<0.50	<0.50	<0.50	<1.0	-	4.1	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	20.85	42.71	-	1.1
MW-7	7/14/2004	60 a	-	<0.50	<0.50	<0.50	<1.0	-	4.2	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	22.44	41.12	-	1.2
MW-7	12/7/2004	120 a	-	<0.50	<0.50	<0.50	<1.0	-	4.3	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	22.25	41.31	-	1.5
MW-7	2/22/2005	110 f	-	<0.50	<0.50	<0.50	<1.0	-	4.0	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	20.55	43.01	-	0.60
MW-7	6/8/2005	110	-	<0.50	<0.50	<0.50	<1.0	-	3.7	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	19.95	43.61	-	0.3
MW-7	8/15/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	3.1	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	63.56	22.14	41.42	-	0.5
MW-7	12/6/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	4.7	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	21.60	41.96	-	0.3
MW-7	2/16/2006	<50	-	<0.50	<0.50	<0.50	<0.50	-	4.6	<12	<2.0	-	<2.0	-	-	-	-	63.56	17.12	46.44	-	0.3
MW-7	6/5/2006	290	-	<0.50	<0.50	0.60	<1.0	-	3.1	<10	<1.0	-	<1.0	-	-	-	-	63.56	14.44	49.12	-	0.2

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-7	8/4/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	4.8	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	63.56	18.24	45.32	-	0.8
MW-7	11/22/2006	76	-	<0.50	<0.50	<0.50	<1.0	-	3.0	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	20.31	43.25	-	0.13
MW-7	2/7/2007	<50	-	<0.50	0.74	<0.50	<1.0	-	3.4	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	20.44	43.12	-	0.17
MW-7	5/24/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	3.7	<10	<2.0	-	<2.0	-	-	-	-	63.56	26.74	36.82	-	0.24
MW-7	8/30/2007	<50 l	-	0.25 m	<1.0	<1.0	<1.0	-	2.8	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.56	22.60	40.96	-	0.20
MW-7	11/15/2007	50 l,n	-	0.19 m	<1.0	0.23 m	0.55 m	-	2.6	<10	<2.0	-	<2.0	-	-	-	-	63.56	21.63	41.93	-	0.19
MW-7	2/13/2008	110 l,n	-	<0.50	<1.0	<1.0	<1.0	-	1.4	<10	<2.0	-	<2.0	-	-	-	-	63.56	19.66	43.90	-	0.22
MW-7	5/2/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	2.8	<10	<2.0	-	<2.0	-	-	-	-	63.56	20.78	42.78	-	0.56
MW-7	8/26/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	1.3	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.56	24.35	39.21	-	0.70
MW-7	11/6/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	1.5	<10	<2.0	-	<2.0	-	-	-	-	63.56	24.40	39.16	-	-
MW-7	1/28/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	2.7	<10	<2.0	-	<2.0	-	-	-	-	63.56	22.45	41.11	-	0.98
MW-7	5/12/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	3.0	<10	<2.0	-	<2.0	-	-	-	-	63.56	20.91	42.65	-	1.68
MW-7	11/3/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	2.8	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.56	23.20	40.36	-	2.13
MW-7	4/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	3.0	<10	<2.0	-	<2.0	-	-	-	-	63.56	20.18	43.38	-	1.81
MW-7	10/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	1.9	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.56	22.40	41.16	-	0.84
MW-7	4/11/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.1	<10 j	<1.0	<1.0	<1.0	-	-	-	-	63.56	20.00	43.56	-	1.22
MW-7	10/7/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.6	<10 j	-	-	-	-	<150	-	-	63.56	20.14	43.42	-	1.26
MW-7	3/9/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	8.6	<10	-	-	-	-	-	-	-	63.56	20.34	43.22	-	0.57
MW-7	4/24/2012	58	-	<0.50	<0.50	<0.50	<1.0	-	5.9	<10	-	-	-	-	-	-	-	63.56	18.96	44.60	-	2.49
MW-7	**7/16/2012**	**<50**	**-**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**-**	**4.2**	**<10**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**63.56**	**21.48**	**42.08**	**-**	**2.71**
MW-7D	5/6/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.61	20.53	43.08	-	-
MW-7D	5/16/2003	86	-	2.7	1.7	0.75	2.2	-	<2.0	<12	<2.0	<2.0	<2.0	-	-	-	-	63.61	22.80	40.81	-	2.1
MW-7D	8/22/2003	<50	-	2.4	0.95	<0.50	2.0	-	3.5	5.1	<2.0	-	<2.0	-	-	-	-	63.61	27.45	36.16	-	1.3
MW-7D	11/17/2003	52	-	2.8	0.86	<0.50	1.6	-	2.7	<5.0	<2.0	-	<2.0	-	-	-	-	63.61	24.24	39.37	-	1.0
MW-7D	2/3/2004	64	-	2.5	1.1	<0.50	1.9	-	2.8	5.6	<2.0	-	<2.0	-	-	-	-	63.61	21.90	41.71	-	0.0
MW-7D	5/17/2004	<50	-	1.9	1.1	<0.50	1.9	-	2.1	<5.0	<2.0	-	<2.0	-	-	-	-	63.61	23.65	39.96	-	4.6
MW-7D	7/14/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	10	-	<2.0	-	-	-	-	63.61	25.31	38.30	-	1.1
MW-7D	12/7/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	10	-	<2.0	-	-	-	-	63.61	23.78	39.83	-	6.9
MW-7D	2/22/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	8.8	-	<2.0	-	-	-	-	63.61	22.23	41.38	-	1.2
MW-7D	6/8/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	6.5	-	<2.0	-	-	-	-	63.61	22.62	40.99	-	2.4
MW-7D	8/15/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	5.3	<2.0	<2.0	-	<50	-	-	63.61	24.95	38.66	-	0.7
MW-7D	12/6/2005	<50	-	0.53	<0.50	<0.50	1.1	-	0.85	<5.0	6.8	-	<2.0	-	-	-	-	63.61	22.59	41.02	-	1.2
MW-7D	2/16/2006	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	5.4	-	<2.0	-	-	-	-	63.61	17.65	45.96	-	4.9
MW-7D	6/5/2006	70	-	<0.50	<0.50	<0.50	<1.0	-	1.2	<10	9.0	-	<1.0	-	-	-	-	63.61	17.92	45.69	-	1.6
MW-7D	8/4/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	0.91	<5.0	6.8	<2.0	<2.0	-	<50	-	-	63.61	22.35	41.26	-	1.7
MW-7D	11/22/2006	51	-	<0.50	<0.50	<0.50	<1.0	-	0.97	<5.0	6.8	-	<2.0	-	-	-	-	63.61	22.18	41.43	-	6.7
MW-7D	2/7/2007	52	-	<0.50	1.1	<0.50	<1.0	-	2.6	<5.0	21	-	<2.0	-	-	-	-	63.61	21.71	41.90	-	0.30
MW-7D	5/24/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	7.0	<10	16	-	<2.0	-	-	-	-	63.61	23.50	40.11	-	1.07
MW-7D	8/30/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	8.3	<10	19	<2.0	<2.0	-	<100	-	-	63.61	25.20	38.41	-	0.20
MW-7D	11/15/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	7.7	<10	14	-	<2.0	-	-	-	-	63.61	22.79	40.82	-	0.56
MW-7D	2/13/2008	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	6.3	<10	12	-	<2.0	-	-	-	-	63.61	21.02	42.59	-	0.62
MW-7D	5/2/2008	52	-	<0.50	<1.0	<1.0	<1.0	-	7.2	<10	14	-	<2.0	-	-	-	-	63.61	25.82	37.79	-	0.32
MW-7D	8/26/2008	56	-	<0.50	<1.0	<1.0	<1.0	-	6.7	<10	11	<2.0	<2.0	-	<100	-	-	63.61	27.90	35.71	-	1.50

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-7D	11/6/2008	61	-	<0.50	<1.0	<1.0	<1.0	-	6.7	<10	9.7	-	<2.0	-	-	-	-	63.61	24.90	38.71	-	0.55
MW-7D	1/28/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	4.5	<10	10	-	<2.0	-	-	-	-	63.61	23.50	40.11	-	0.40
MW-7D	5/12/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	2.9	<10	6.0	-	<2.0	-	-	-	-	63.61	23.75	39.86	-	1.04
MW-7D	11/3/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	2.6	<10	12	<2.0	<2.0	-	<100	-	-	63.61	25.96	37.65	-	1.32
MW-7D	4/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	2.2	<10	11	-	<2.0	-	-	-	-	63.61	22.02	41.59	-	0.95
MW-7D	4/11/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10 j	10	<1.0	<1.0	-	<100	-	-	63.61	20.73	42.88	-	1.39
MW-7D	10/7/2011	<50	-	0.58	<0.50	<0.50	<1.0	-	<1.0	<10 j	-	-	-	-	<150	-	-	63.61	23.18	40.43	-	1.32
MW-7D	3/9/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	0.69	<10	-	-	-	-	-	-	-	63.61	22.15	41.46	-	0.66
MW-7D	4/24/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	0.58	<10	-	-	-	-	-	-	-	63.61	20.87	42.74	-	1.11
MW-7D	**7/16/2012**	<50	-	<0.50	**2.2**	<0.50	<1.0	-	<0.50	<10	-	-	-	-	-	-	-	**63.61**	**25.49**	**38.12**	-	**1.37**
MW-8	3/11/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.56	20.49	43.07	-	-
MW-8	3/14/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	11	<12	<2.0	<2.0	<2.0	<1,000	<500	<2.0	<2.0	63.56	20.44	43.12	-	1.3
MW-8	6/13/2002	Unable to sample		-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.56	20.87	42.69	-	-
MW-8	7/2/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	10	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.56	21.78	41.78	-	2.7
MW-8	8/5/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	7.3	<5.0	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.56	22.58	40.98	-	0.6
MW-8	11/19/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	4.4	<10	<2.0	<2.0	<2.0	-	-	-	-	63.56	23.17	40.39	-	0.9
MW-8	3/7/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	6.5	<10	<2.0	<2.0	<2.0	-	-	-	-	63.56	20.13	43.43	-	1.9
MW-8	4/25/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	5.9	<50	<2.0	<2.0	<2.0	-	-	-	-	63.56	19.86	43.70	-	1.1
MW-8	8/22/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	3.9	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	23.12	40.44	-	1.0
MW-8	11/17/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.4	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	23.48	40.08	-	0.8
MW-8	2/3/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.8	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	21.44	42.12	-	0.0
MW-8	5/17/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.9	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	20.91	42.65	-	1.0
MW-8	7/14/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	22.40	41.16	-	0.6
MW-8	12/7/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.6	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	22.31	41.25	-	2.5
MW-8	2/22/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.3	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	20.33	43.23	-	2.2
MW-8	6/8/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.4	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	19.96	43.60	-	0.7
MW-8	8/15/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.1	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	63.56	22.06	41.50	-	1.4
MW-8	12/6/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.4	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	21.68	41.88	-	0.2
MW-8	2/16/2006	90 h	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	<2.0	-	<2.0	-	-	-	-	63.56	16.95	46.61	-	0.6
MW-8	6/5/2006	70	-	<0.50	<0.50	<0.50	<1.0	-	0.52 i	<10	<1.0	-	<1.0	-	-	-	-	63.56	14.45	49.11	-	0.1
MW-8	8/4/2006	65	-	<0.50	<0.50	<0.50	<1.0	-	1.4	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	63.56	18.32	45.24	-	0.9
MW-8	11/22/2006	59	-	<0.50	<0.50	<0.50	<1.0	-	4.8	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	20.33	43.23	-	1.9
MW-8	2/7/2007	<50	-	<0.50	1.2	<0.50	<1.0	-	4.1	<5.0	<2.0	-	<2.0	-	-	-	-	63.56	20.44	43.12	-	0.2
MW-8	5/24/2007	<50 I	-	<0.50	<1.0	<1.0	<1.0	-	3.5	<10	<2.0	-	<2.0	-	-	-	-	63.56	20.72	42.84	-	0.21
MW-8	8/30/2007	<50 I	-	<0.50	<1.0	<1.0	<1.0	-	4.6	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.56	22.60	40.96	-	0.21
MW-8	11/15/2007	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.56	-	-	-	-
MW-8	11/29/2007	<50 I	-	<0.50	<1.0	<1.0	<1.0	-	1.6	<10	<2.0	-	<2.0	-	-	-	-	63.56	21.41	42.15	-	0.3
MW-8	2/13/2008	<50 I	-	<0.50	<1.0	<1.0	<1.0	-	1.7	<10	<2.0	-	<2.0	-	-	-	-	63.56	19.63	43.93	-	1.25
MW-8	5/2/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	2.3	<10	<2.0	-	<2.0	-	-	-	-	63.56	20.80	42.76	-	1.18
MW-8	8/26/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.56	24.00	39.56	-	1.25
MW-8	11/6/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.56	23.45	40.11	-	0.87
MW-8	1/28/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.56	22.52	41.04	-	0.75
MW-8	5/12/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.56	20.91	42.65	-	1.02

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-8	11/3/2009	64	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.56	23.15	40.41	-	1.60
MW-8	4/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.56	20.20	43.36	-	1.21
MW-8	10/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.56	22.45	41.11	-	0.90
MW-8	4/11/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10 j	<1.0	<1.0	<1.0	-	-	-	-	63.56	20.02	43.54	-	2.08
MW-8	10/7/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10 j	-	-	-	-	<150	-	-	63.56	20.15	43.41	-	1.28
MW-8	3/9/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<10	-	-	-	-	-	-	-	63.56	20.46	43.10	-	1.13
MW-8	4/24/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<10	-	-	-	-	-	-	-	63.56	18.95	44.61	-	0.33
MW-8	**7/16/2012**	**<50**	**-**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**-**	**<0.50**	**<10**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**63.56**	**21.34**	**42.22**	**-**	**1.05**
MW-9	5/6/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.26	18.98	44.28	-	-
MW-9	5/16/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	<2.0	<2.0	<2.0	-	-	-	-	63.26	19.12	44.14	-	2.3
MW-9	8/22/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.26	23.03	40.23	-	1.7
MW-9	11/17/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.26	23.06	40.20	-	1.0
MW-9	2/3/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.26	20.86	42.40	-	1.2
MW-9	5/17/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.26	20.59	42.67	-	2.0
MW-9	7/14/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.26	22.06	41.20	-	3.8
MW-9	12/7/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.26	21.86	41.40	-	3.7
MW-9	2/22/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.26	20.03	43.23	-	3.7
MW-9	6/8/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.26	19.58	43.68	-	1.2
MW-9	8/15/2005	62 g	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	63.26	21.80	41.46	-	d
MW-9	12/6/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.26	21.22	42.04	-	0.8
MW-9	2/16/2006	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	<2.0	-	<2.0	-	-	-	-	63.26	17.66	45.60	-	1.3
MW-9	6/5/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10	<1.0	-	<1.0	-	-	-	-	63.26	14.00	49.26	-	1.1
MW-9	8/4/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	63.26	17.79	45.47	-	1.2
MW-9	11/22/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.26	19.91	43.35	-	3.7
MW-9	2/7/2007	<50	-	<0.50	0.82	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.26	19.93	43.33	-	0.24
MW-9	5/24/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	0.24 m	<10	<2.0	-	<2.0	-	-	-	-	63.26	20.38	42.88	-	1.23
MW-9	8/30/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.26	22.30	40.96	-	0.98
MW-9	11/15/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.26	21.21	42.05	-	2.97
MW-9	2/13/2008	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.26	19.21	44.05	-	3.62
MW-9	5/2/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.26	20.31	42.95	-	1.05
MW-9	8/26/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.26	23.65	39.61	-	1.0
MW-9	11/6/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.26	23.05	40.21	-	0.86
MW-9	1/28/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.26	22.00	41.26	-	1.98
MW-9	5/12/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.26	20.40	42.86	-	4.67
MW-9	11/3/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.26	22.75	40.51	-	2.40
MW-9	4/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.26	19.85	43.41	-	2.13
MW-9	10/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.26	22.13	41.13	-	1.53
MW-9	4/11/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10 j	<1.0	<1.0	<1.0	-	-	-	-	63.26	19.62	43.64	-	2.08
MW-9	10/7/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10	-	-	-	-	<150 r	-	-	63.26	19.88	43.38	-	1.67
MW-9	3/9/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<10	-	-	-	-	-	-	-	63.26	20.14	43.12	-	0.58
MW-9	4/24/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<10	-	-	-	-	-	-	-	63.26	18.65	44.61	-	2.14
MW-9	**7/16/2012**	**<50**	**-**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**-**	**<0.50**	**<10**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**63.26**	**21.27**	**41.99**	**-**	**2.42**

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-10	3/11/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62.82	19.71	43.11	-	-
MW-10	3/14/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	13	<12	<2.0	<2.0	<2.0	<1,000	<500	<2.0	<2.0	62.82	19.60	43.22	-	1.9
MW-10	6/13/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	62.82	20.88	41.94	-	3.0
MW-10	8/5/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<5.0	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	62.82	22.28	40.54	-	0.8
MW-10	11/19/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	0.73	<10	<2.0	<2.0	<2.0	-	-	-	-	62.82	22.38	40.44	-	1.0
MW-10	3/7/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	11	<10	<2.0	<2.0	<2.0	-	-	-	-	62.82	19.51	43.31	-	1.2
MW-10	4/25/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<50	<2.0	<2.0	<2.0	-	-	-	-	62.82	19.27	43.55	-	2.3
MW-10	8/22/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.82	23.27	39.55	-	2.2
MW-10	11/17/2003	<50	-	<0.50	3.4	0.56	2.6	-	1.2	<5.0	<2.0	-	<2.0	-	-	-	-	62.82	22.74	40.08	-	1.9
MW-10	2/3/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	2.4	<5.0	<2.0	-	<2.0	-	-	-	-	62.82	20.62	42.20	-	0.4
MW-10	5/17/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.82	20.61	42.21	-	2.7
MW-10	7/14/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.82	22.11	40.71	-	2.4
MW-10	12/7/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	14	<5.0	<2.0	-	<2.0	-	-	-	-	62.82	21.59	41.23	-	4.9
MW-10	2/22/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	45	<5.0	<2.0	-	<2.0	-	-	-	-	62.82	19.87	42.95	-	5.3
MW-10	6/8/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	4.5	<5.0	<2.0	-	<2.0	-	-	-	-	62.82	19.50	43.32	-	2.8
MW-10	8/15/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	62.82	21.64	41.18	-	2.2
MW-10	12/6/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	3.0	<5.0	<2.0	-	<2.0	-	-	-	-	62.82	20.90	41.92	-	1.8
MW-10	2/16/2006	<50	-	<0.50	<0.50	<0.50	<0.50	-	22	<12	<2.0	-	<2.0	-	-	-	-	62.82	16.35	46.47	-	0.6
MW-10	6/5/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10	<1.0	-	<1.0	-	-	-	-	62.82	13.94	48.88	-	1.6
MW-10	8/4/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	62.82	17.83	44.99	-	1.8
MW-10	11/22/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.82	19.76	43.06	-	2.8
MW-10	2/7/2007	<50	-	<0.50	0.66	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	62.82	19.68	43.14	-	2.8
MW-10	5/24/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	62.82	20.35	42.47	-	0.74
MW-10	8/30/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	62.82	22.20	40.62	-	0.67
MW-10	11/15/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	0.29 m	<10	<2.0	-	<2.0	-	-	-	-	62.82	20.97	41.85	-	3.84
MW-10	2/13/2008	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	62.82	18.96	43.86	-	2.54
MW-10	5/2/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	62.82	20.51	42.31	-	2.28
MW-10	8/26/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	62.82	23.79	39.03	-	2.22
MW-10	11/6/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	62.82	22.85	39.97	-	0.76
MW-10	1/28/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	62.82	21.73	41.09	-	1.40
MW-10	5/12/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	62.82	20.42	42.40	-	2.47
MW-10	11/3/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	62.82	22.80	40.02	-	2.31
MW-10	4/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	62.82	19.51	43.31	-	2.20
MW-10	10/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	62.82	22.11	40.71	-	0.86
MW-10	4/11/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10	<1.0	<1.0	<1.0	-	-	-	-	62.82	15.88	46.94	-	3.55
MW-10	10/7/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10	-	-	-	-	<150	-	-	62.82	19.75	43.07	-	3.47
MW-10	3/9/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<10	-	-	-	-	-	-	-	62.82	19.90	42.92	-	0.74
MW-10	4/24/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<10	-	-	-	-	-	-	-	62.82	18.94	43.88	-	3.62
MW-10	**7/16/2012**	**<50**	**-**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**-**	**<0.50**	**<10**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**62.82**	**21.27**	**41.55**	**-**	**2.03**
MW-11	3/11/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.15	20.00	43.15	-	-
MW-11	3/14/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	<2.0	<2.0	<2.0	<1,000	<500	<2.0	<2.0	63.15	19.86	43.29	-	1.2
MW-11	6/13/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	0.57	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.15	20.69	42.46	-	0.30
MW-11	8/5/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	0.60	<5.0	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.15	22.33	40.82	-	0.7

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-11	11/19/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	1.1	<10	<2.0	<2.0	<2.0	-	-	-	-	63.15	22.67	40.48	-	1.0
MW-11	3/7/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<10	<2.0	<2.0	<2.0	-	-	-	-	63.15	19.62	43.53	-	1.8
MW-11	4/25/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<50	<2.0	<2.0	<2.0	-	-	-	-	63.15	19.45	43.70	-	0.4
MW-11	8/22/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.0	<5.0	<2.0	-	<2.0	-	-	-	-	63.15	23.28	39.87	-	1.3
MW-11	11/17/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.0	<5.0	<2.0	-	<2.0	-	-	-	-	63.15	23.06	40.09	-	0.8
MW-11	2/3/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	0.97	<5.0	<2.0	-	<2.0	-	-	-	-	63.15	21.00	42.15	-	0.0
MW-11	5/17/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.1	<5.0	<2.0	-	<2.0	-	-	-	-	63.15	20.61	42.54	-	0.7
MW-11	7/14/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.2	<5.0	<2.0	-	<2.0	-	-	-	-	63.15	22.19	40.96	-	0.7
MW-11	12/7/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.5	<5.0	<2.0	-	<2.0	-	-	-	-	63.15	21.86	41.29	-	1.7
MW-11	2/22/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	0.66	<5.0	<2.0	-	<2.0	-	-	-	-	63.15	20.09	43.06	-	1.3
MW-11	6/8/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	4.9	<5.0	<2.0	-	<2.0	-	-	-	-	63.15	19.59	43.56	-	0.2
MW-11	8/15/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	2.2	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	63.15	21.75	41.40	-	0.4
MW-11	12/6/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	3.2	<5.0	<2.0	-	<2.0	-	-	-	-	63.15	21.14	42.01	-	0.3
MW-11	2/16/2006	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	<2.0	-	<2.0	-	-	-	-	63.15	16.66	46.49	-	1.5
MW-11	6/5/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	3.4	<10	<1.0	-	<1.0	-	-	-	-	63.15	14.04	49.11	-	0.5
MW-11	8/4/2006	100	-	<0.50	<0.50	<0.50	<1.0	-	4.1	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	63.15	18.49	44.66	-	0.5
MW-11	11/22/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	2.2	<5.0	<2.0	-	<2.0	-	-	-	-	63.15	19.97	43.18	-	0.3
MW-11	2/7/2007	<50	-	<0.50	0.74	<0.50	<1.0	-	2.1	<5.0	<2.0	-	<2.0	-	-	-	-	63.15	19.93	43.22	-	0.2
MW-11	5/24/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	2.1	<10	<2.0	-	<2.0	-	-	-	-	63.15	20.38	42.77	-	0.17
MW-11	8/30/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	2.2	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.15	22.30	40.85	-	0.16
MW-11	11/15/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	1.6	<10	<2.0	-	<2.0	-	-	-	-	63.15	21.22	41.93	-	0.28
MW-11	2/13/2008	76 l,n	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.15	19.19	43.96	-	0.32
MW-11	5/2/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	2.7	<10	<2.0	-	<2.0	-	-	-	-	63.15	20.33	42.82	-	0.04
MW-11	8/26/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	1.6	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.15	23.89	39.26	-	0.3
MW-11	11/6/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	1.1	<10	<2.0	-	<2.0	-	-	-	-	63.15	23.05	40.10	-	0.89
MW-11	1/28/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.15	22.00	41.15	-	0.53
MW-11	5/12/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.15	20.52	42.63	-	1.11
MW-11	11/3/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	1.3	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.15	22.81	40.34	-	1.22
MW-11	4/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.15	19.76	43.39	-	1.27
MW-11	10/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	2.4	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.15	22.25	40.90	-	1.42
MW-11	4/11/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10	<1.0	<1.0	<1.0	-	-	-	-	63.15	15.97	47.18	-	2.77
MW-11	10/7/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10	-	-	-	-	<150	-	-	63.15	19.85	43.30	-	1.61
MW-11	3/9/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	0.80	<10	-	-	-	-	-	-	-	63.15	20.05	43.10	-	1.33
MW-11	4/24/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	0.66	<10	-	-	-	-	-	-	-	63.15	18.65	44.50	-	1.07
MW-11	**7/16/2012**	**<50**	**-**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**-**	**<0.50**	**<10**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**63.15**	**21.24**	**41.91**	**-**	**1.68**
MW-12	3/11/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.22	-	-	-
MW-12	3/14/2002	<50	-	<0.50	<0.50	<0.50	0.63	-	<2.0	<12	<2.0	<2.0	<2.0	<1,000	<500	<2.0	<2.0	-	20.18	-	-	1.0
MW-12	6/13/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.39	20.17	43.22	-	1.0
MW-12	8/5/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<5.0	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.39	22.45	40.94	-	0.7
MW-12	11/19/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<10	<2.0	<2.0	<2.0	-	-	-	-	63.39	22.98	40.41	-	1.0
MW-12	3/7/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<10	<2.0	<2.0	<2.0	-	-	-	-	63.39	19.95	43.44	-	1.7
MW-12	4/25/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<50	<2.0	<2.0	<2.0	-	-	-	-	63.39	19.71	43.68	-	0.8
MW-12	8/22/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.39	23.22	40.17	-	1.3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-12	11/17/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.39	23.42	39.97	-	0.9
MW-12	2/3/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.39	21.26	42.13	-	0.0
MW-12	5/17/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.39	20.84	42.55	-	1.3
MW-12	7/14/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.39	22.38	41.01	-	0.9
MW-12	12/7/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.39	22.12	41.27	-	1.9
MW-12	2/22/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.39	20.35	43.04	-	1.8
MW-12	6/8/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.39	19.75	43.64	-	0.7
MW-12	8/15/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	63.39	21.96	41.43	-	2.8
MW-12	12/6/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.39	21.47	41.92	-	1.6
MW-12	2/16/2006	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	<2.0	-	<2.0	-	-	-	-	63.39	16.95	46.44	-	0.6
MW-12	6/5/2006	52	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10	<1.0	-	<1.0	-	-	-	-	63.39	14.44	48.95	-	2.1
MW-12	8/4/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	63.39	18.07	45.32	-	2.5
MW-12	11/22/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.39	20.16	43.23	-	2.5
MW-12	2/7/2007	<50	-	<0.50	1.0	<0.50	<1.0	-	<0.50	<5.0	<2.0	-	<2.0	-	-	-	-	63.39	20.28	43.11	-	0.8
MW-12	5/24/2007	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.39	20.56	42.83	-	0.28
MW-12	8/30/2007	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.39	22.95	40.44	-	0.17
MW-12	11/15/2007	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.39	21.54	41.85	-	0.19
MW-12	2/13/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.39	19.41	43.98	-	1.63
MW-12	5/2/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.39	20.67	42.72	-	2.09
MW-12	8/26/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.39	23.84	39.55	-	0.1
MW-12	11/6/2008	51	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.39	23.25	40.14	-	0.81
MW-12	1/28/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.39	22.30	41.09	-	1.01
MW-12	5/12/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.39	20.74	42.65	-	1.42
MW-12	11/3/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.39	23.00	40.39	-	1.10
MW-12	4/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.39	20.01	43.38	-	1.13
MW-12	10/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.39	22.40	40.99	-	1.19
MW-12	4/11/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10	<1.0	<1.0	<1.0	-	-	-	-	63.39	19.85	43.54	-	1.88
MW-12	10/7/2011	120	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10	-	-	-	-	<150	-	-	63.39	20.05	43.34	-	2.46
MW-12	3/9/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<10	-	-	-	-	-	-	-	63.39	20.21	43.18	-	1.55
MW-12	4/24/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	<0.50	<10	-	-	-	-	-	-	-	63.39	18.65	44.74	-	0.35
MW-12	**7/16/2012**	**<50**	**-**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**-**	**<0.50**	**<10**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**63.39**	**21.40**	**41.99**	**-**	**1.78**
MW-13	3/11/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.27	20.07	43.20	-	-
MW-13	3/14/2002	<50	-	<0.50	1.4	<0.50	2.0	-	2.8	<12	<2.0	<2.0	<2.0	<1,000	<500	<2.0	<2.0	63.27	19.94	43.33	-	1.3
MW-13	6/13/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	0.58	<12	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.27	20.57	42.70	-	0.40
MW-13	8/5/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	0.56	<5.0	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	63.27	23.35	39.92	-	0.7
MW-13	11/19/2002	<50	-	<0.50	<0.50	<0.50	<0.50	-	0.62	<10	<2.0	<2.0	<2.0	-	-	-	-	63.27	22.75	40.52	-	0.9
MW-13	3/7/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	0.91	<10	<2.0	<2.0	<2.0	-	-	-	-	63.27	19.70	43.57	-	1.5
MW-13	4/25/2003	<50	-	<0.50	<0.50	<0.50	<0.50	-	4.1	<50	<2.0	<2.0	<2.0	-	-	-	-	63.27	19.52	43.75	-	0.6
MW-13	8/22/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.8	<5.0	<2.0	-	<2.0	-	-	-	-	63.27	23.17	40.10	-	1.3
MW-13	11/17/2003	<50	-	<0.50	<0.50	<0.50	<1.0	-	2.2	<5.0	<2.0	-	<2.0	-	-	-	-	63.27	23.18	40.09	-	0.8
MW-13	2/3/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	2.7	<5.0	<2.0	-	<2.0	-	-	-	-	63.27	21.04	42.23	-	0.0
MW-13	5/17/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	7.2	<5.0	<2.0	-	<2.0	-	-	-	-	63.27	20.65	42.62	-	1.2
MW-13	7/14/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	3.6	<5.0	<2.0	-	<2.0	-	-	-	-	63.27	22.20	41.07	-	0.6

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-13	12/7/2004	<50	-	<0.50	<0.50	<0.50	<1.0	-	2.0	<5.0	<2.0	-	<2.0	-	-	-	-	63.27	21.95	41.32	-	4.0
MW-13	2/22/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	0.95	<5.0	<2.0	-	<2.0	-	-	-	-	63.27	20.07	43.20	-	4.1
MW-13	6/8/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	3.2	<5.0	<2.0	-	<2.0	-	-	-	-	63.27	19.59	43.68	-	0.3
MW-13	8/15/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.0	<5.0	<2.0	<2.0	<2.0	-	<50	-	-	63.27	21.80	41.47	-	0.5
MW-13	12/6/2005	<50	-	<0.50	<0.50	<0.50	<1.0	-	0.8	<5.0	<2.0	-	<2.0	-	-	-	-	63.27	21.25	42.02	-	1.1
MW-13	2/16/2006	<50	-	<0.50	<0.50	<0.50	<0.50	-	<2.0	<12	<2.0	-	<2.0	-	-	-	-	63.27	16.88	46.39	-	1.2
MW-13	6/5/2006	64	-	<0.50	<0.50	<0.50	<1.0	-	0.66 i	<10	<1.0	-	<1.0	-	-	-	-	63.27	13.83	49.44	-	0.8
MW-13	8/4/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.7	100	<2.0	<2.0	<2.0	-	<50	-	-	63.27	18.04	45.23	-	0.74
MW-13	11/22/2006	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.9	9.5	<2.0	-	<2.0	-	-	-	-	63.27	20.01	43.26	-	6.2
MW-13	2/7/2007	<50	-	<0.50	0.66	<0.50	<1.0	-	1.4	56	<2.0	-	<2.0	-	-	-	-	63.27	20.00	43.27	-	0.48
MW-13	5/24/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	1.7	200	<2.0	-	<2.0	-	-	-	-	63.27	20.42	42.85	-	3.64
MW-13	8/30/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	1.0 m	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.27	22.30	40.97	-	3.7
MW-13	11/15/2007	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	1.2	<10	<2.0	-	<2.0	-	-	-	-	63.27	21.33	41.94	-	0.53
MW-13	2/13/2008	<50 l	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.27	19.29	43.98	-	0.64
MW-13	5/2/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.27	20.42	42.85	-	2.58
MW-13	8/26/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.27	23.90	39.37	-	1.7
MW-13	11/6/2008	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.27	23.10	40.17	-	0.42
MW-13	1/28/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.27	22.10	41.17	-	0.87
MW-13	5/12/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.27	20.57	42.70	-	2.93
MW-13	11/3/2009	<50	-	<0.50	<1.0	<1.0	<1.0	-	1.1	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.27	22.85	40.42	-	2.78
MW-13	4/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	-	<2.0	-	-	-	-	63.27	19.79	43.48	-	2.49
MW-13	10/19/2010	<50	-	<0.50	<1.0	<1.0	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0	-	<100	-	-	63.27	22.29	40.98	-	1.16
MW-13	4/11/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10	<1.0	<1.0	<1.0	-	-	-	-	63.27	16.11	47.16	-	2.13
MW-13	10/7/2011	<50	-	<0.50	<0.50	<0.50	<1.0	-	<1.0	<10	-	-	-	-	<150	-	-	63.27	19.85	43.42	-	0.65
MW-13	3/9/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.4	<10	-	-	-	-	-	-	-	63.27	20.16	43.11	-	0.75
MW-13	4/24/2012	<50	-	<0.50	<0.50	<0.50	<1.0	-	1.2	<10	-	-	-	-	-	-	-	63.27	18.69	44.58	-	2.02
MW-13	**7/16/2012**	**<50**	**-**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**-**	**1.1**	**<10**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**63.27**	**21.18**	**42.09**	**-**	**2.18**
MW-14	3/11/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.01	20.85	43.16	-	-
MW-14	3/14/2002	74,000	-	1,000	7,400	2,600	11,000	-	1,200	1,100	61	<25	<25	<2,500	<500	<25	<25	64.01	20.80	43.21	-	0.8
MW-14	6/13/2002	67,000	-	400	6,600	2,700	12,000	-	3,300	3,700	<25	<25	<25	-	-	<25	<25	64.01	21.41	42.60	-	d
MW-14	7/2/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.01	-	-	-	2.4
MW-14	8/5/2002	76,000	-	400	6,100	3,000	13,000	-	2,900	3,000	<25	<25	<25	-	-	<25	<25	64.01	23.07	40.94	-	0.6
MW-14	11/19/2002	69,000	-	370	7,000	2,900	13,000	-	3,000	3,200	<25	<25	<25	-	-	-	-	64.01	23.50	40.51	-	1.3
MW-14	3/7/2003	72,000	-	520	7,800	3,200	14,000	-	3,600	3,600	<25	<25	<25	-	-	-	-	64.01	20.50	43.51	-	1.2
MW-14	4/25/2003	49,000	-	300	4,500	2,300	9,100	-	5,300	5,200	<20	<20	<20	-	-	-	-	64.01	20.25	43.76	-	0.3
MW-14	8/22/2003	82,000	-	470	8,400	3,300	17,000	-	9,500	5,000	<400	-	<400	-	-	-	-	64.01	23.85	40.16	-	1.5
MW-14	11/17/2003	53,000	-	420	4,400	3,000	14,000	-	7,000	5,400	<200	-	<200	-	-	-	-	64.01	23.90	40.11	-	0.6
MW-14	2/3/2004	94,000	-	560	8,100	5,100	23,000	-	15,000	7,000	<200	-	<200	-	-	-	-	64.01	21.72	42.29	-	0.8
MW-14	5/17/2004	47,000	-	290	3,800	2,800	12,000	-	9,100	6,500	<200	-	<200	-	-	-	-	64.01	21.24	42.77	-	0.8
MW-14	7/14/2004	61,000	-	380	5,700	3,800	13,000	-	13,000	6,000	<200	-	<200	-	-	-	-	64.01	22.87	41.14	-	1.0
MW-14	12/7/2004	63,000	-	390	4,100	3,500	15,000	-	16,000	11,000	<200	-	<200	-	-	-	-	64.01	22.69	41.32	-	1.1
MW-14	2/22/2005	60,000	-	310	3,300	2,900	12,000	-	12,000	9,100	<200	-	<200	-	-	-	-	64.01	20.95	43.06	-	1.0
MW-14	6/8/2005	48,000	-	220	2,300	2,200	9,400	-	16,000	11,000	<200	-	<200	-	-	-	-	64.01	20.32	43.69	-	0.3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Well ID	Date	TPPH µg/L	TEPH µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE 8020 µg/L	MTBE 8260 µg/L	TBA µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	TOC ft MSL	Depth to Water ft TOC	GW Elevation ft MSL	SPH Thickness feet	DO Reading
MW-14	8/15/2005	50,000	-	260	4,000	2,000	8,500	-	18,000	7,700	<400	<400	<400	-	<10,000	-	-	64.01	22.51	41.50	-	0.6
MW-14	12/6/2005	54,000	-	440	4,100	3,000	10,000	-	16,000	9,900	<400	<400	-	-	-	-	-	64.01	21.99	42.02	-	0.4
MW-14	2/16/2006	29,000	-	410	1,700	1,700	4,600	-	8,100	7,600	44	-	31	-	-	-	-	64.01	16.55	47.46	-	0.5
MW-14	6/5/2006	29,000	-	310	410	1,500	4,000	-	9,900	10,000	<200 j,k	-	<200	-	-	-	-	64.01	15.01	49.00	-	0.2
MW-14	8/4/2006	43,000	-	130	2,200	700	4,500	-	12,000	9,000	23	<10	76	-	<250	-	-	64.01	17.85	46.16	-	0.2
MW-14	11/22/2006	37,000	-	280	3,200	1,000	5,800	-	8,300	11,000	<200	-	<200	-	-	-	-	64.01	19.89	44.12	-	1.1
MW-14	2/7/2007	Unable to sample		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.01	20.61	43.40	-	0.84
MW-14	2/15/2007	29,000	-	250	2,600	880	4,900	-	7,700	5,600	<200	-	<200	-	-	-	-	64.01	20.61	43.40	-	0.84
MW-14	5/24/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.01	21.09	42.92	-	0.84
MW-14	8/30/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.01	21.15	42.86	-	-
MW-14	11/15/2007	Well inaccessible		-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.01	-	-	-	-
MW-14	11/29/2007	24,000 l	-	330	2,100	1,300	5,600	-	7,200	8,900	45	-	69	-	-	-	-	64.01	Unable to gauge		-	1.0
MW-14	2/13/2008	27,000 l	-	210	2,600	750	5,100	-	6,900	6,900	<200	-	<200	-	-	-	-	64.01	28.35	35.66	-	2.55
MW-14	5/2/2008	15,000	-	140	1,200	470	2,670	-	3,500	11,000	<100	-	<100	-	-	-	-	64.01	28.31	35.70	-	-
MW-14	8/26/2008	9,800	-	77	540	270	1,330	-	1,800	5,000	<100	<100	<100	-	<5,000	-	-	64.01	Unable to gauge		-	1.8
MW-14	11/6/2008	12,000	-	57	340	320	1,010	-	1,300	9,100	<100	-	<100	-	-	-	-	64.01	23.70	40.31	-	0.35
MW-14	1/28/2009	5,800	-	31	<50	99	130	-	1,500	34,000	<100	-	<100	-	-	-	-	64.01	22.33	41.68	-	1.23
MW-14	5/12/2009	6,100	-	28	120	110	320	-	2,000	30,000	<100	-	<100	-	-	-	-	64.01	21.21	42.80	-	2.90
MW-14	11/3/2009	15,000	-	160	61	91	350	-	3,900	39,000	<100	<100	<100	-	<5,000	-	-	64.01	23.42	40.59	-	1.84
MW-14	4/19/2010	6,400	-	150	130	90	220	-	2,200	33,000	<100	-	<100	-	-	-	-	64.01	20.91	43.10	-	1.88
MW-14	10/19/2010	9,500	-	240	68	88	170	-	1,300	36,000	<100	<100	<100	-	<5,000	-	-	64.01	22.80	41.21	-	1.39
MW-14	4/11/2011	10,000	-	160	200	450	1,200	-	1,100	28,000	<20	<20	<20	-	-	-	-	64.01	16.78	47.23	-	1.67
MW-14	10/7/2011	1,500	-	13	8.7	20	43	-	22	15,000	-	-	-	-	<1,500	-	-	64.01	20.31	43.70	-	1.32
MW-14	3/9/2012	<1,000	-	<10	<10	<10	<20	-	28	13,000	-	-	-	-	-	-	-	64.01	20.53	43.48	-	0.51
MW-14	4/24/2012	2,300	-	17	16.0	19	58	-	56	15,000	-	-	-	-	-	-	-	64.01	19.23	44.78	-	0.42
MW-14	**7/16/2012**	**5,800**	**-**	**38**	**150**	**150**	**390**	**-**	**560**	**16,000**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**64.01**	**21.72**	**42.29**	**-**	**0.69**
MW-15	10/2/2008	10,000	-	120	1,300	210	1,220	-	29	290	-	-	-	-	-	-	-	63.67	24.81	38.86	-	-
MW-15	11/6/2008	7,900	-	130	920	97	1,270	-	220	2,700	-	-	-	-	-	-	-	63.67	-	-	-	-
MW-15	1/28/2009	1,500	-	81	59	<10	140	-	160	3,900	-	-	-	-	-	-	-	63.67	22.80	40.87	-	0.87
MW-15	5/12/2009	350	-	<1.0	<2.0	<2.0	<2.0	-	260	1,100	-	-	-	-	-	-	-	63.67	21.66	42.01	-	2.12
MW-15	11/3/2009	52,000	-	570	1,400	2,000	8,300	-	6,300	12,000	23	<4.0	46	-	<200	-	-	63.67	23.31	40.36	-	1.21
MW-15	4/19/2010	21,000	-	540	1,500	990	4,000	-	2,400	13,000	-	-	-	-	-	-	-	63.67	20.31	43.36	-	1.30
MW-15	10/19/2010	28,000	-	580	1,000	1,100	4,100	-	1,900	11,000	<50	<50	<50	-	<2,500	-	-	63.67	22.65	41.02	-	1.17
MW-15	4/11/2011	5,700	-	160	320	130	490	-	72	5,100	-	-	-	-	-	-	-	63.67	16.65	47.02	-	1.50
MW-15	10/7/2011	810	-	6.1	<5.0	1,100	20	-	10	8,600	-	-	-	-	<1,500	-	-	63.67	20.26	43.41	-	1.20
MW-15	3/9/2012	9,700	-	400	230	270	690	-	430	10,000	-	-	-	-	-	-	-	63.67	20.36	43.31	-	0.41
MW-15	4/24/2012	13,000	-	400	390	380	1,300	-	270	9,200	-	-	-	-	-	-	-	63.67	19.10	44.57	-	0.48
MW-15	**7/16/2012**	**31,000**	**-**	**470**	**920**	**1,800**	**6,200**	**-**	**930**	**8,100**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**63.67**	**21.57**	**42.10**	**-**	**0.53**

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
501 EAST FIFTH STREET
MARYSVILLE, CALIFORNIA

Notes and Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to November 14, 2000, analyzed by EPA Method 8015, except where noted.
TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to November 14, 2000, analyzed by EPA Method 8020.
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B
Ethanol analyzed by EPA Method 8260B.
Methanol analyzed by EPA Method 8260B.
1,2-DCA = 1,2-Dichloroethane, analyzed by EPA Method 8260B
EDB = 1,2-Dibromoethane, analyzed by EPA Method 8260B
TOC = Top of casing elevation (Elev) in feet relative to mean sea level (MSL)
SPH = Separate-Phase Hydrocarbons
GW = Groundwater
DO = Dissolved Oxygen
µg/L = Micrograms per liter (parts per billion)
ppm = Parts per million
fL = Feet
<n = Below detection limit
(D) = Duplicate sample
- = Not applicable
a = Chromatogram pattern indicated an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.
b = Analyzed by EPA Method 8015.
c = Samples not analyzed due to labeling error; resampled on June 21, 2001.
d = DO Reading not taken
e = Top of casing elevation altered during wellhead maintenance.
f = Quantity of unknown hydrocarbon in sample based on gasoline.
g = The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.
h = Hydrocarbon reported as TPH as Gasoline does not exhibit a typical Gasoline chromatographic pattern.
i = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
j = Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted.
k = Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
l = Analyzed by EPA Method 8015B (M).
m = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
n= The sample chromatopraphic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standards.
o = Smple container contained headspace.
p = The MS/MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
q = Hydrocarbon result partly due to individual peak(s) in quantitation range.
r = The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
Corrected groundwater elevation when SPH is present = Top-of-Casing Elevation - Depth to Water + (0.8 x Hydrocarbon Thickness).
Site surveyed March 15, 2002 and April 17, 2002 by Virgil Chavez Land Surveying (VCLS) of Vallejo, CA. MW-15 surveyed on October 22, 2008 by VCLS.
Survey data for wells MW-7D and MW-9 provided by Cambria Environmental Technology.

APPENDIX C

PROJECT NO. **S9805-01-45 SR70 and 5th Street**

BORING NO. B1

DATE DRILLED 12/17/2014 WATER LEVEL (ATD) 4.0'

EQUIPMENT Hand-auger and Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**2 INCHES CONCRETE**	CL	
				FILL Soft, moist, dark yellowish brown, fine Sandy CLAY, with brick fragments, no odor		
4				▼ - perched water at 4', wet, not flowing		147
5		B1-4.5 0915		- iron oxide staining at 4.75'		121
				ALLUVIUM Stiff, moist, olive black, Silty CLAY, strong odor	CL	588
7				- moisture increases and hard gravel-sized clay fragments from 7 to 7.5'		603
8		B1-7.5 1015				
9				- becomes moderately yellowish brown to light olive gray at 9', strong odor		373
11						275
12		B1-11.5 1030				
13				- becomes light brown at ~13'		
14				Stiff, moist, olive black to olive gray, Silty CLAY, with trace (10%) fine sands, strong odor	CL	
15				- becomes moderately yellowish brown to brownish gray at 16'		887
16		B1-15.5 1045				
19				Loose, moist, dark yellowish brown, Clayey fine SAND, moderate odor	SC	
20		B1-19.5 1105		BORING TERMINATED AT 20 FEET		295

Figure 1, Log of Boring B1, page 1 of 1

ENV_NO_WELL S9805-01-45 MARYSVILLE BORING LOGS.GPJ 01/09/15

BORING ELEVATION:	ENGINEER/GEOLOGIST: **Josh Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-45 SR70 and 5th Street**

BORING NO. B2

DATE DRILLED 12/17/2014 WATER LEVEL (ATD) 3.0'

EQUIPMENT Hand-auger and Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**2 INCHES CONCRETE**	CL	
				FILL Soft, moist, dark yellowish brown, fine Sandy CLAY, with brick fragments, no odor		5.3
2						
3				▼ - perched water at 3', brick fragments		0.5
4						0.5
5		B2-4.5 0950		- moist again at 4.5'		0.8
				ALLUVIUM Stiff, moist, moderate brown, Silty CLAY, no odor	CL	
6						
7				Soft, moist, olive gray to olive black, Silty CLAY, with roots and trace gravel (5%), very strong odor	CL	
8		B2-7.5 1130		- olive gray and no gravel at 8'		568
9						
10						
11						
12		B2-11.5 1145				723
13						
14						
15		B2-14.5 1219		- still strong odor at 15'		917
				BORING TERMINATED AT 15 FEET		

Figure 2, Log of Boring B2, page 1 of 1

ENV_NO_WELL S9805-01-45 MARYSVILLE BORING LOGS.GPJ 01/09/15

BORING ELEVATION:	ENGINEER/GEOLOGIST: **Josh Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-45 SR70 and 5th Street**

BORING NO. B3

DATE DRILLED 12/17/2014 WATER LEVEL (ATD) _____

EQUIPMENT Hand-auger DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**2 INCHES CONCRETE**	CL	
2				**FILL** Soft, moist, moderate yellowish brown, Silty CLAY, with trace fine sands (5%), no odor		0.3
3				- metal pipe at 12", vertically oriented; hand-auger past pipe without breaking it		0.4
				HAND-AUGER BORING TERMINATED AT 3.5 FEET Can push digging bar into soil to a depth of 6'		

Figure 3, Log of Boring B3, page 1 of 1

ENV_NO_WELL S9805-01-45 MARYSVILLE BORING LOGS.GPJ 01/09/15

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Josh Ewert**

PROJECT NO. **S9805-01-45 SR70 and 5th Street**

BORING NO. B4

DATE DRILLED 12/17/2014 WATER LEVEL (ATD) _____

EQUIPMENT Hand-auger DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**2 INCHES CONCRETE** **FILL** Soft, moist, moderate yellowish brown, Silty CLAY, with trace fine sands (5%), no odor - steel debris at 12", very rusted; metal pipe running east-west along the northern and southern edge of boring at 12" and 18" REFUSAL - BORING TERMINATED AT 18 INCHES Can push digging bar into soil to a depth of 6'	CL	0.1

Figure 4, Log of Boring B4, page 1 of 1

ENV_NO_WELL S9805-01-45 MARYSVILLE BORING LOGS.GPJ 01/09/15

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Josh Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-45 SR70 and 5th Street**

BORING NO. B5

DATE DRILLED 12/17/2014 WATER LEVEL (ATD) _____

EQUIPMENT Hand-auger DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**2 INCHES CONCRETE**	CL	
				FILL		0.1
2				Soft, moist, moderate yellowish brown, Silty CLAY, with trace fine sands (5%), no odor		0.2
3				- trace gravels at 2'		0.1
		B5-3.5 1115		REFUSAL - BORING TERMINATED AT 3 FEET 10 INCHES DUE TO UST		

Figure 5, Log of Boring B5, page 1 of 1

ENV_NO_WELL S9805-01-45 MARYSVILLE BORING LOGS.GPJ 01/09/15

BORING ELEVATION:	ENGINEER/GEOLOGIST: **Josh Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-45 SR70 and 5th Street**

BORING NO. B6

DATE DRILLED 12/17/2014 WATER LEVEL (ATD) _____

EQUIPMENT Hand-auger and Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
				2 INCHES CONCRETE	CL	
1				**FILL** Loose, moist, moderate yellowish brown, fine SAND, no odor		0.1
2				**ALLUVIUM** Soft, moist, light brown, Silty CLAY, no odor	CL	0.2
3						
4						0.3
5		B6-4.5 1350		- hard fine gravel-sized pieces of clay, oxidized iron at 5'		0.2
6		B6-6 1355		Very stiff, moist, olive gray, Silty CLAY, with moderate odor	CL	282
7						
8		B6-7.5 1400		- moderate yellowish brown, no odor at 7.25'		1.3
9						
10				- hard drilling, hard coarse sand-sized pieces of clay at 9', silts increase		
11				Dense, moist, moderate brown, silty coarse to fine sandy GRAVEL, no odor	GM	
12		B6-11.5 1410		- soft, moisture increases at 12'		0.2
13				- stiff, rootlets at 13'		
14						
15		B6-14.5 1425		- grades to olive gray, moderate odor at 14.25'		
				BORING TERMINATED AT 15 FEET		481

Figure 6, Log of Boring B6, page 1 of 1

ENV_NO_WELL S9805-01-45 MARYSVILLE BORING LOGS.GPJ 01/09/15

BORING ELEVATION:	ENGINEER/GEOLOGIST: **Josh Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-45 SR70 and 5th Street**

BORING NO. B7

DATE DRILLED 12/17/2014 WATER LEVEL (ATD) _____

EQUIPMENT Hand-auger and Direct-push DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**2 INCHES CONCRETE**	SP	
				FILL Loose, moist, moderate yellowish brown, fine SAND, no odor		0.0
2				**ALLUVIUM** Soft, moist, light brown, Silty CLAY, no odor	CL	0.0
3						
4						0.1
5				- hard, fine gravel-sized pieces of clay, oxidized iron at 5'		
6		B7-6 1445		Stiff, moist, olive gray, Silty CLAY with moderate odor	CL	448
7						
8		B7-7.5 1450		- becomes moderate brown with no odor at 7.5'		0.7
9				- silts increases at 9'		
10						
11				- soft, moisture increases at 11'		
12		B7-11.5 1500				0.2
13				- grades to olive gray, moderate odor at 13'		
14				- very stiff		
15		B7-14.5 1515		BORING TERMINATED AT 15 FEET		589

Figure 7, Log of Boring B7, page 1 of 1

ENV_NO_WELL S9805-01-45 MARYSVILLE BORING LOGS.GPJ 01/09/15

BORING ELEVATION:	ENGINEER/GEOLOGIST: **Josh Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. **S9805-01-45 SR70 and 5th Street**

BORING NO. B8

DATE DRILLED 12/17/2014 WATER LEVEL (ATD) _____

EQUIPMENT Hand-auger DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**2 INCHES CONCRETE**	CL	
				FILL		
2				Soft, moist, moderate yellowish brown, Silty CLAY, with trace fine sands (5%), no odor		0.0
3						0.1
				REFUSAL - BORING TERMINATED AT 3 FEET 10 INCHES DUE TO UST		

Figure 8, Log of Boring B8, page 1 of 1

ENV_NO_WELL S9805-01-45 MARYSVILLE BORING LOGS.GPJ 01/09/15

BORING ELEVATION:	ENGINEER/GEOLOGIST: **Josh Ewert**

PROJECT NO. **S9805-01-45 SR70 and 5th Street**

BORING NO. B9

DATE DRILLED 12/17/2014 WATER LEVEL (ATD) _____

EQUIPMENT Hand-auger DRILLER Geocon

DEPTH IN FEET	BLOW COUNT	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	SOIL (USCS)	HEADSPACE (PPM)
1				**2 INCHES CONCRETE**	CL	
				FILL		
				Soft, moist, moderate yellowish brown, Silty CLAY, no odor		0.0
2						
3				- light brown at 3'		0.0
4						
5		B9-4.5 1600		- moisture decreases and hard gravel-sized pieces of clay at 4.5'		
				BORING TERMINATED AT 5 FEET		0.0

Figure 9, Log of Boring B9, page 1 of 1

ENV_NO_WELL S9805-01-45 MARYSVILLE BORING LOGS.GPJ 01/09/15

BORING ELEVATION:

ENGINEER/GEOLOGIST: **Josh Ewert**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

APPENDIX D

December 30, 2014

John Juhrend
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax:(916) 852-9132

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1404056

Client Reference : SR70 & 5th St UST, S9805-01-45

Enclosed are the results for sample(s) received on December 19, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1-4.5	1404056-01	Soil	12/17/14 9:15	12/19/14 9:00
B1-7.5	1404056-02	Soil	12/17/14 10:15	12/19/14 9:00
B1-11.5	1404056-03	Soil	12/17/14 10:30	12/19/14 9:00
B1-15.5	1404056-04	Soil	12/17/14 10:45	12/19/14 9:00
B1-19.5	1404056-05	Soil	12/17/14 11:05	12/19/14 9:00
B2-4.5	1404056-06	Soil	12/17/14 9:50	12/19/14 9:00
B2-7.5	1404056-07	Soil	12/17/14 11:30	12/19/14 9:00
B2-11.5	1404056-08	Soil	12/17/14 11:45	12/19/14 9:00
B2-14.5	1404056-09	Soil	12/17/14 12:19	12/19/14 9:00
B6-4.5	1404056-11	Soil	12/17/14 13:50	12/19/14 9:00
B6-6	1404056-12	Soil	12/17/14 13:55	12/19/14 9:00
B6-7.5	1404056-13	Soil	12/17/14 14:00	12/19/14 9:00
B6-11.5	1404056-14	Soil	12/17/14 14:10	12/19/14 9:00
B6-14.5	1404056-15	Soil	12/17/14 14:25	12/19/14 9:00
B7-6	1404056-16	Soil	12/17/14 14:45	12/19/14 9:00
B7-7.5	1404056-17	Soil	12/17/14 14:50	12/19/14 9:00
B7-11.5	1404056-18	Soil	12/17/14 15:00	12/19/14 9:00
B7-14.5	1404056-19	Soil	12/17/14 15:15	12/19/14 9:00

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B1-4.5

Lab ID: 1404056-01

Title 22 Metals by ICP-AES EPA 6010B

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Arsenic	**4.6**	1.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Barium	**120**	1.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Beryllium	ND	1.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Cadmium	ND	1.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Chromium	**34**	1.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Cobalt	**9.1**	1.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Copper	**29**	2.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Lead	**5.8**	1.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Molybdenum	ND	1.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Nickel	**28**	1.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Selenium	ND	1.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Silver	ND	1.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Thallium	ND	1.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Vanadium	**47**	1.0	1	B4L0698	12/24/2014	12/24/14 15:55	
Zinc	**27**	1.0	1	B4L0698	12/24/2014	12/24/14 15:55	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B4L0699	12/24/2014	12/24/14 13:53	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	**300**	50	50	B4L0615	12/22/2014	12/22/14 12:59	
Surrogate: 4-Bromofluorobenzene *60.6 %*		*33 - 151*		B4L0615	12/22/2014	*12/22/14 12:59*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	**340**	10	10	B4L0637	12/23/2014	12/23/14 15:14	
ORO	**10**	10	10	B4L0637	12/23/2014	12/23/14 15:14	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B1-4.5

Lab ID: 1404056-01

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: p-Terphenyl	*0%*		*40 - 112*		B4L0637	12/23/2014	*12/23/14 15:14*	S4

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	250	50	B4L0615	12/22/2014	12/22/14 12:59	
Toluene		ND	250	50	B4L0615	12/22/2014	12/22/14 12:59	
Ethylbenzene		ND	250	50	B4L0615	12/22/2014	12/22/14 12:59	
m,p-Xylene		ND	500	50	B4L0615	12/22/2014	12/22/14 12:59	
o-Xylene		ND	250	50	B4L0615	12/22/2014	12/22/14 12:59	
Surrogate: 4-Bromofluorobenzene	*82.2 %*		*53 - 144*		B4L0615	12/22/2014	*12/22/14 12:59*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	250	50	B4L0610	12/22/2014	12/22/14 11:40	D2
Surrogate: 1,2-Dichloroethane-d4	*116 %*		*67 - 152*		B4L0610	12/22/2014	*12/22/14 11:40*	
Surrogate: 4-Bromofluorobenzene	*156 %*		*59 - 135*		B4L0610	12/22/2014	*12/22/14 11:40*	S7
Surrogate: Dibromofluoromethane	*110 %*		*71 - 150*		B4L0610	12/22/2014	*12/22/14 11:40*	
Surrogate: Toluene-d8	*104 %*		*77 - 129*		B4L0610	12/22/2014	*12/22/14 11:40*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B1-7.5

Lab ID: 1404056-02

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		**2000**	50	50	B4L0615	12/22/2014	12/22/14 13:15	
Surrogate: 4-Bromofluorobenzene	*396 %*		*33 - 151*		B4L0615	12/22/2014	*12/22/14 13:15*	S7

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	250	50	B4L0615	12/22/2014	12/22/14 13:15	
Toluene		ND	250	50	B4L0615	12/22/2014	12/22/14 13:15	
Ethylbenzene		ND	250	50	B4L0615	12/22/2014	12/22/14 13:15	
m,p-Xylene		ND	500	50	B4L0615	12/22/2014	12/22/14 13:15	
o-Xylene		ND	250	50	B4L0615	12/22/2014	12/22/14 13:15	
Surrogate: 4-Bromofluorobenzene	*38.3 %*		*53 - 144*		B4L0615	12/22/2014	*12/22/14 13:15*	S7

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	250	50	B4L0610	12/22/2014	12/22/14 11:59	D2
Surrogate: 1,2-Dichloroethane-d4	*133 %*		*67 - 152*		B4L0610	12/22/2014	*12/22/14 11:59*	
Surrogate: 4-Bromofluorobenzene	*290 %*		*59 - 135*		B4L0610	12/22/2014	*12/22/14 11:59*	S7
Surrogate: Dibromofluoromethane	*97.0 %*		*71 - 150*		B4L0610	12/22/2014	*12/22/14 11:59*	
Surrogate: Toluene-d8	*173 %*		*77 - 129*		B4L0610	12/22/2014	*12/22/14 11:59*	S7

Semivolatile Organic Compounds by EPA 8270C

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
1,2-Dichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
1,3-Dichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
1,4-Dichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
2,4,5-Trichlorophenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
2,4,6-Trichlorophenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
2,4-Dichlorophenol	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:27	
2,4-Dimethylphenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
2,4-Dinitrophenol	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:27	

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B1-7.5

Lab ID: 1404056-02

Semivolatile Organic Compounds by EPA 8270C **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2,4-Dinitrotoluene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
2,6-Dinitrotoluene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
2-Chloronaphthalene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
2-Chlorophenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
2-Methylnaphthalene	**1100**	330	1	B4L0640	12/23/2014	12/29/14 15:27	
2-Methylphenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
2-Nitroaniline	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:27	
2-Nitrophenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
3,3´-Dichlorobenzidine	ND	660	1	B4L0640	12/23/2014	12/29/14 15:27	
3-Nitroaniline	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:27	
4,6-Dinitro-2-methyphenol	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:27	
4-Bromophenyl-phenylether	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
4-Chloro-3-methylphenol	ND	660	1	B4L0640	12/23/2014	12/29/14 15:27	
4-Chloroaniline	ND	660	1	B4L0640	12/23/2014	12/29/14 15:27	
4-Chlorophenyl-phenylether	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
4-Methylphenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
4-Nitroaniline	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:27	
4-Nitrophenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Acenaphthene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Acenaphthylene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Anthracene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Benzidine (M)	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:27	
Benzo(a)anthracene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Benzo(a)pyrene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Benzo(b)fluoranthene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Benzo(g,h,i)perylene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Benzo(k)fluoranthene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Benzoic acid	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:27	
Benzyl alcohol	ND	660	1	B4L0640	12/23/2014	12/29/14 15:27	
bis(2-chloroethoxy)methane	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
bis(2-Chloroethyl)ether	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
bis(2-chloroisopropyl)ether	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
bis(2-ethylhexyl)phthalate	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Butylbenzylphthalate	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Chrysene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Di-n-butylphthalate	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Di-n-octylphthalate	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B1-7.5

Lab ID: 1404056-02

Semivolatile Organic Compounds by EPA 8270C **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dibenz(a,h)anthracene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Dibenzofuran	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Diethyl phthalate	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Dimethyl phthalate	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Fluoranthene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Fluorene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Hexachlorobenzene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Hexachlorobutadiene	ND	660	1	B4L0640	12/23/2014	12/29/14 15:27	
Hexachlorocyclopentadiene	ND	660	1	B4L0640	12/23/2014	12/29/14 15:27	
Hexachloroethane	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Indeno(1,2,3-cd)pyrene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Isophorone	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
N-Nitroso-di-n propylamine	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
N-Nitrosodiphenylamine	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Naphthalene	**1100**	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Nitrobenzene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Pentachlorophenol	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:27	
Phenanthrene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Phenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Pyrene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:27	
Pyridine	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:27	
Surrogate: 1,2-Dichlorobenzene-d4	*70.3 %*	*46 - 103*		B4L0640	12/23/2014	*12/29/14 15:27*	
Surrogate: 2,4,6-Tribromophenol	*89.0 %*	*45 - 140*		B4L0640	12/23/2014	*12/29/14 15:27*	
Surrogate: 2-Chlorophenol-d4	*83.2 %*	*49 - 108*		B4L0640	12/23/2014	*12/29/14 15:27*	
Surrogate: 2-Fluorobiphenyl	*72.8 %*	*51 - 113*		B4L0640	12/23/2014	*12/29/14 15:27*	
Surrogate: 2-Fluorophenol	*87.5 %*	*39 - 113*		B4L0640	12/23/2014	*12/29/14 15:27*	
Surrogate: 4-Terphenyl-d14	*87.3 %*	*59 - 133*		B4L0640	12/23/2014	*12/29/14 15:27*	
Surrogate: Nitrobenzene-d5	*78.1 %*	*43 - 118*		B4L0640	12/23/2014	*12/29/14 15:27*	
Surrogate: Phenol-d5	*86.2 %*	*43 - 114*		B4L0640	12/23/2014	*12/29/14 15:27*	

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B1-11.5

Lab ID: 1404056-03

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		**1400**	50	50	B4L0615	12/22/2014	12/22/14 13:30	
Surrogate: 4-Bromofluorobenzene	*11.9 %*		*33 - 151*		B4L0615	12/22/2014	*12/22/14 13:30*	S7

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO		**86**	1.0	1	B4L0637	12/23/2014	12/23/14 12:47	
ORO		**4.7**	1.0	1	B4L0637	12/23/2014	12/23/14 12:47	
Surrogate: p-Terphenyl	*57.3 %*		*40 - 112*		B4L0637	12/23/2014	*12/23/14 12:47*	

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	250	50	B4L0615	12/22/2014	12/22/14 13:30	
Toluene		ND	250	50	B4L0615	12/22/2014	12/22/14 13:30	
Ethylbenzene		**2300**	250	50	B4L0615	12/22/2014	12/22/14 13:30	
m,p-Xylene		ND	500	50	B4L0615	12/22/2014	12/22/14 13:30	
o-Xylene		ND	250	50	B4L0615	12/22/2014	12/22/14 13:30	
Surrogate: 4-Bromofluorobenzene	*95.2 %*		*53 - 144*		B4L0615	12/22/2014	*12/22/14 13:30*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	250	50	B4L0610	12/22/2014	12/22/14 12:17	D2
Surrogate: 1,2-Dichloroethane-d4	*153 %*		*67 - 152*		B4L0610	12/22/2014	*12/22/14 12:17*	S7
Surrogate: 4-Bromofluorobenzene	*200 %*		*59 - 135*		B4L0610	12/22/2014	*12/22/14 12:17*	S7
Surrogate: Dibromofluoromethane	*115 %*		*71 - 150*		B4L0610	12/22/2014	*12/22/14 12:17*	
Surrogate: Toluene-d8	*143 %*		*77 - 129*		B4L0610	12/22/2014	*12/22/14 12:17*	S7

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B1-15.5

Lab ID: 1404056-04

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		**1100**	50	50	B4L0615	12/22/2014	12/22/14 13:46	
Surrogate: 4-Bromofluorobenzene	*290 %*		*33 - 151*		B4L0615	12/22/2014	*12/22/14 13:46*	S7

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	250	50	B4L0615	12/22/2014	12/22/14 13:46	
Toluene		ND	250	50	B4L0615	12/22/2014	12/22/14 13:46	
Ethylbenzene		ND	250	50	B4L0615	12/22/2014	12/22/14 13:46	
m,p-Xylene		ND	500	50	B4L0615	12/22/2014	12/22/14 13:46	
o-Xylene		ND	250	50	B4L0615	12/22/2014	12/22/14 13:46	
Surrogate: 4-Bromofluorobenzene	*41.0 %*		*53 - 144*		B4L0615	12/22/2014	*12/22/14 13:46*	S7

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	250	50	B4L0610	12/22/2014	12/22/14 12:36	D2
Surrogate: 1,2-Dichloroethane-d4	*115 %*		*67 - 152*		B4L0610	12/22/2014	*12/22/14 12:36*	
Surrogate: 4-Bromofluorobenzene	*254 %*		*59 - 135*		B4L0610	12/22/2014	*12/22/14 12:36*	S7
Surrogate: Dibromofluoromethane	*99.3 %*		*71 - 150*		B4L0610	12/22/2014	*12/22/14 12:36*	
Surrogate: Toluene-d8	*135 %*		*77 - 129*		B4L0610	12/22/2014	*12/22/14 12:36*	S7

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
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Client Sample ID B1-19.5

Lab ID: 1404056-05

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		**150**	50	50	B4L0615	12/22/2014	12/22/14 14:02	
Surrogate: 4-Bromofluorobenzene	*72.1 %*		*33 - 151*		B4L0615	12/22/2014	*12/22/14 14:02*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO		**6.1**	1.0	1	B4L0637	12/23/2014	12/23/14 11:59	
ORO		**2.5**	1.0	1	B4L0637	12/23/2014	12/23/14 11:59	
Surrogate: p-Terphenyl	*61.1 %*		*40 - 112*		B4L0637	12/23/2014	*12/23/14 11:59*	

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	250	50	B4L0615	12/22/2014	12/22/14 14:02	
Toluene		ND	250	50	B4L0615	12/22/2014	12/22/14 14:02	
Ethylbenzene		ND	250	50	B4L0615	12/22/2014	12/22/14 14:02	
m,p-Xylene		ND	500	50	B4L0615	12/22/2014	12/22/14 14:02	
o-Xylene		ND	250	50	B4L0615	12/22/2014	12/22/14 14:02	
Surrogate: 4-Bromofluorobenzene	*90.5 %*		*53 - 144*		B4L0615	12/22/2014	*12/22/14 14:02*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	250	50	B4L0610	12/22/2014	12/22/14 12:55	D2
Surrogate: 1,2-Dichloroethane-d4	*114 %*		*67 - 152*		B4L0610	12/22/2014	*12/22/14 12:55*	
Surrogate: 4-Bromofluorobenzene	*110 %*		*59 - 135*		B4L0610	12/22/2014	*12/22/14 12:55*	
Surrogate: Dibromofluoromethane	*109 %*		*71 - 150*		B4L0610	12/22/2014	*12/22/14 12:55*	
Surrogate: Toluene-d8	*114 %*		*77 - 129*		B4L0610	12/22/2014	*12/22/14 12:55*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B2-4.5

Lab ID: 1404056-06

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		ND	1.0	1	B4L0615	12/22/2014	12/22/14 15:37	
Surrogate: 4-Bromofluorobenzene	*96.3 %*		*33 - 151*		B4L0615	12/22/2014	*12/22/14 15:37*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO		**2.1**	1.0	1	B4L0637	12/23/2014	12/23/14 12:31	
ORO		**2.2**	1.0	1	B4L0637	12/23/2014	12/23/14 12:31	
Surrogate: p-Terphenyl	*47.9 %*		*40 - 112*		B4L0637	12/23/2014	*12/23/14 12:31*	

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	5.0	1	B4L0615	12/22/2014	12/22/14 15:37	
Toluene		ND	5.0	1	B4L0615	12/22/2014	12/22/14 15:37	
Ethylbenzene		ND	5.0	1	B4L0615	12/22/2014	12/22/14 15:37	
m,p-Xylene		ND	10	1	B4L0615	12/22/2014	12/22/14 15:37	
o-Xylene		ND	5.0	1	B4L0615	12/22/2014	12/22/14 15:37	
Surrogate: 4-Bromofluorobenzene	*88.4 %*		*53 - 144*		B4L0615	12/22/2014	*12/22/14 15:37*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	5.0	1	B4L0610	12/22/2014	12/22/14 15:43	
Surrogate: 1,2-Dichloroethane-d4	*132 %*		*67 - 152*		B4L0610	12/22/2014	*12/22/14 15:43*	
Surrogate: 4-Bromofluorobenzene	*94.1 %*		*59 - 135*		B4L0610	12/22/2014	*12/22/14 15:43*	
Surrogate: Dibromofluoromethane	*136 %*		*71 - 150*		B4L0610	12/22/2014	*12/22/14 15:43*	
Surrogate: Toluene-d8	*104 %*		*77 - 129*		B4L0610	12/22/2014	*12/22/14 15:43*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B2-7.5

Lab ID: 1404056-07

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		**820**	50	50	B4L0615	12/22/2014	12/22/14 14:33	
Surrogate: 4-Bromofluorobenzene	*10.1 %*		*33 - 151*		B4L0615	12/22/2014	*12/22/14 14:33*	S7

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO		**210**	5.0	5	B4L0637	12/23/2014	12/23/14 14:58	
ORO		**10**	5.0	5	B4L0637	12/23/2014	12/23/14 14:58	
Surrogate: p-Terphenyl	*71.0 %*		*40 - 112*		B4L0637	12/23/2014	*12/23/14 14:58*	

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	250	50	B4L0615	12/22/2014	12/22/14 14:33	
Toluene		ND	250	50	B4L0615	12/22/2014	12/22/14 14:33	
Ethylbenzene		**600**	250	50	B4L0615	12/22/2014	12/22/14 14:33	
m,p-Xylene		**2000**	500	50	B4L0615	12/22/2014	12/22/14 14:33	
o-Xylene		ND	250	50	B4L0615	12/22/2014	12/22/14 14:33	
Surrogate: 4-Bromofluorobenzene	*81.5 %*		*53 - 144*		B4L0615	12/22/2014	*12/22/14 14:33*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	250	50	B4L0610	12/22/2014	12/22/14 13:32	D2
Surrogate: 1,2-Dichloroethane-d4	*131 %*		*67 - 152*		B4L0610	12/22/2014	*12/22/14 13:32*	
Surrogate: 4-Bromofluorobenzene	*239 %*		*59 - 135*		B4L0610	12/22/2014	*12/22/14 13:32*	S7
Surrogate: Dibromofluoromethane	*121 %*		*71 - 150*		B4L0610	12/22/2014	*12/22/14 13:32*	
Surrogate: Toluene-d8	*118 %*		*77 - 129*		B4L0610	12/22/2014	*12/22/14 13:32*	

Semivolatile Organic Compounds by EPA 8270C

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B2-7.5

Lab ID: 1404056-07

Semivolatile Organic Compounds by EPA 8270C **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
1,2-Dichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
1,3-Dichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
1,4-Dichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
2,4,5-Trichlorophenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
2,4,6-Trichlorophenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
2,4-Dichlorophenol	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:54	
2,4-Dimethylphenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
2,4-Dinitrophenol	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:54	
2,4-Dinitrotoluene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
2,6-Dinitrotoluene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
2-Chloronaphthalene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
2-Chlorophenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
2-Methylnaphthalene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
2-Methylphenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
2-Nitroaniline	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:54	
2-Nitrophenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
3,3´-Dichlorobenzidine	ND	660	1	B4L0640	12/23/2014	12/29/14 15:54	
3-Nitroaniline	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:54	
4,6-Dinitro-2-methyphenol	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:54	
4-Bromophenyl-phenylether	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
4-Chloro-3-methylphenol	ND	660	1	B4L0640	12/23/2014	12/29/14 15:54	
4-Chloroaniline	ND	660	1	B4L0640	12/23/2014	12/29/14 15:54	
4-Chlorophenyl-phenylether	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
4-Methylphenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
4-Nitroaniline	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:54	
4-Nitrophenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Acenaphthene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Acenaphthylene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Anthracene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Benzidine (M)	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:54	
Benzo(a)anthracene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Benzo(a)pyrene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Benzo(b)fluoranthene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Benzo(g,h,i)perylene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Benzo(k)fluoranthene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Benzoic acid	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:54	

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
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Client Sample ID B2-7.5

Lab ID: 1404056-07

Semivolatile Organic Compounds by EPA 8270C **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzyl alcohol	ND	660	1	B4L0640	12/23/2014	12/29/14 15:54	
bis(2-chloroethoxy)methane	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
bis(2-Chloroethyl)ether	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
bis(2-chloroisopropyl)ether	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
bis(2-ethylhexyl)phthalate	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Butylbenzylphthalate	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Chrysene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Di-n-butylphthalate	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Di-n-octylphthalate	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Dibenz(a,h)anthracene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Dibenzofuran	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Diethyl phthalate	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Dimethyl phthalate	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Fluoranthene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Fluorene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Hexachlorobenzene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Hexachlorobutadiene	ND	660	1	B4L0640	12/23/2014	12/29/14 15:54	
Hexachlorocyclopentadiene	ND	660	1	B4L0640	12/23/2014	12/29/14 15:54	
Hexachloroethane	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Indeno(1,2,3-cd)pyrene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Isophorone	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
N-Nitroso-di-n propylamine	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
N-Nitrosodiphenylamine	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Naphthalene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Nitrobenzene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Pentachlorophenol	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:54	
Phenanthrene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Phenol	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Pyrene	ND	330	1	B4L0640	12/23/2014	12/29/14 15:54	
Pyridine	ND	1600	1	B4L0640	12/23/2014	12/29/14 15:54	
Surrogate: 1,2-Dichlorobenzene-d4	*68.0 %*	*46 - 103*		B4L0640	12/23/2014	*12/29/14 15:54*	
Surrogate: 2,4,6-Tribromophenol	*92.3 %*	*45 - 140*		B4L0640	12/23/2014	*12/29/14 15:54*	
Surrogate: 2-Chlorophenol-d4	*81.5 %*	*49 - 108*		B4L0640	12/23/2014	*12/29/14 15:54*	
Surrogate: 2-Fluorobiphenyl	*73.6 %*	*51 - 113*		B4L0640	12/23/2014	*12/29/14 15:54*	
Surrogate: 2-Fluorophenol	*81.8 %*	*39 - 113*		B4L0640	12/23/2014	*12/29/14 15:54*	
Surrogate: 4-Terphenyl-d14	*89.2 %*	*59 - 133*		B4L0640	12/23/2014	*12/29/14 15:54*	
Surrogate: Nitrobenzene-d5	*78.8 %*	*43 - 118*		B4L0640	12/23/2014	*12/29/14 15:54*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B2-7.5

Lab ID: 1404056-07

Semivolatile Organic Compounds by EPA 8270C **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Phenol-d5	*82.8 %*	*43 - 114*		B4L0640	12/23/2014	*12/29/14 15:54*	

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B2-11.5

Lab ID: 1404056-08

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		**1600**	50	50	B4L0615	12/22/2014	12/22/14 14:49	
Surrogate: 4-Bromofluorobenzene	*6.41 %*		*33 - 151*		B4L0615	12/22/2014	*12/22/14 14:49*	S7

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	250	50	B4L0615	12/22/2014	12/22/14 14:49	
Toluene		ND	250	50	B4L0615	12/22/2014	12/22/14 14:49	
Ethylbenzene		ND	250	50	B4L0615	12/22/2014	12/22/14 14:49	
m,p-Xylene		ND	500	50	B4L0615	12/22/2014	12/22/14 14:49	
o-Xylene		ND	250	50	B4L0615	12/22/2014	12/22/14 14:49	
Surrogate: 4-Bromofluorobenzene	*43.6 %*		*53 - 144*		B4L0615	12/22/2014	*12/22/14 14:49*	S7

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	250	50	B4L0610	12/22/2014	12/22/14 13:51	D2
Surrogate: 1,2-Dichloroethane-d4	*123 %*		*67 - 152*		B4L0610	12/22/2014	*12/22/14 13:51*	
Surrogate: 4-Bromofluorobenzene	*261 %*		*59 - 135*		B4L0610	12/22/2014	*12/22/14 13:51*	S7
Surrogate: Dibromofluoromethane	*107 %*		*71 - 150*		B4L0610	12/22/2014	*12/22/14 13:51*	
Surrogate: Toluene-d8	*153 %*		*77 - 129*		B4L0610	12/22/2014	*12/22/14 13:51*	S7

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
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Client Sample ID B2-14.5

Lab ID: 1404056-09

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		**540**	50	50	B4L0615	12/22/2014	12/22/14 15:05	
Surrogate: 4-Bromofluorobenzene	*41.5 %*		*33 - 151*		B4L0615	12/22/2014	*12/22/14 15:05*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO		**98**	1.0	1	B4L0637	12/23/2014	12/23/14 13:04	
ORO		**5.5**	1.0	1	B4L0637	12/23/2014	12/23/14 13:04	
Surrogate: p-Terphenyl	*55.6 %*		*40 - 112*		B4L0637	12/23/2014	*12/23/14 13:04*	

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	250	50	B4L0615	12/22/2014	12/22/14 15:05	
Toluene		ND	250	50	B4L0615	12/22/2014	12/22/14 15:05	
Ethylbenzene		ND	250	50	B4L0615	12/22/2014	12/22/14 15:05	
m,p-Xylene		ND	500	50	B4L0615	12/22/2014	12/22/14 15:05	
o-Xylene		ND	250	50	B4L0615	12/22/2014	12/22/14 15:05	
Surrogate: 4-Bromofluorobenzene	*84.9 %*		*53 - 144*		B4L0615	12/22/2014	*12/22/14 15:05*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	250	50	B4L0610	12/22/2014	12/22/14 14:09	D2
Surrogate: 1,2-Dichloroethane-d4	*125 %*		*67 - 152*		B4L0610	12/22/2014	*12/22/14 14:09*	
Surrogate: 4-Bromofluorobenzene	*138 %*		*59 - 135*		B4L0610	12/22/2014	*12/22/14 14:09*	S7
Surrogate: Dibromofluoromethane	*112 %*		*71 - 150*		B4L0610	12/22/2014	*12/22/14 14:09*	
Surrogate: Toluene-d8	*119 %*		*77 - 129*		B4L0610	12/22/2014	*12/22/14 14:09*	

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B6-4.5

Lab ID: 1404056-11

Title 22 Metals by ICP-AES EPA 6010B

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Arsenic	**4.7**	1.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Barium	**94**	1.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Beryllium	ND	1.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Cadmium	ND	1.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Chromium	**36**	1.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Cobalt	**8.9**	1.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Copper	**27**	2.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Lead	**5.3**	1.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Molybdenum	ND	1.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Nickel	**29**	1.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Selenium	ND	1.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Silver	ND	1.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Thallium	ND	1.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Vanadium	**57**	1.0	1	B4L0698	12/24/2014	12/24/14 16:01	
Zinc	**27**	1.0	1	B4L0698	12/24/2014	12/24/14 16:01	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B4L0699	12/24/2014	12/24/14 14:07	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B4L0615	12/22/2014	12/22/14 15:21	
Surrogate: 4-Bromofluorobenzene	*95.1 %*	*33 - 151*		B4L0615	12/22/2014	*12/22/14 15:21*	

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	1	B4L0615	12/22/2014	12/22/14 15:21	
Toluene	ND	5.0	1	B4L0615	12/22/2014	12/22/14 15:21	
Ethylbenzene	ND	5.0	1	B4L0615	12/22/2014	12/22/14 15:21	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
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Client Sample ID B6-4.5

Lab ID: 1404056-11

BTEX/MTBE by EPA 8021 **Analyst: MFR**

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
m,p-Xylene		ND	10	1	B4L0615	12/22/2014	12/22/14 15:21	
o-Xylene		ND	5.0	1	B4L0615	12/22/2014	12/22/14 15:21	
Surrogate: 4-Bromofluorobenzene	*86.4 %*		*53 - 144*		B4L0615	12/22/2014	*12/22/14 15:21*	

Volatile Organic Compounds by EPA 8260B **Analyst: AG**

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	5.0	1	B4L0610	12/22/2014	12/22/14 16:20	
Surrogate: 1,2-Dichloroethane-d4	*137 %*		*67 - 152*		B4L0610	12/22/2014	*12/22/14 16:20*	
Surrogate: 4-Bromofluorobenzene	*96.5 %*		*59 - 135*		B4L0610	12/22/2014	*12/22/14 16:20*	
Surrogate: Dibromofluoromethane	*121 %*		*71 - 150*		B4L0610	12/22/2014	*12/22/14 16:20*	
Surrogate: Toluene-d8	*97.3 %*		*77 - 129*		B4L0610	12/22/2014	*12/22/14 16:20*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B6-6

Lab ID: 1404056-12

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		**510**	50	50	B4L0627	12/22/2014	12/22/14 21:46	
Surrogate: 4-Bromofluorobenzene	*22.1 %*		*33 - 151*		B4L0627	12/22/2014	*12/22/14 21:46*	S7

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO		**570**	20	20	B4L0637	12/23/2014	12/23/14 15:30	
ORO		ND	20	20	B4L0637	12/23/2014	12/23/14 15:30	
Surrogate: p-Terphenyl	*0%*		*40 - 112*		B4L0637	12/23/2014	*12/23/14 15:30*	S4

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	250	50	B4L0627	12/22/2014	12/22/14 21:46	
Toluene		ND	250	50	B4L0627	12/22/2014	12/22/14 21:46	
Ethylbenzene		ND	250	50	B4L0627	12/22/2014	12/22/14 21:46	
m,p-Xylene		ND	500	50	B4L0627	12/22/2014	12/22/14 21:46	
o-Xylene		ND	250	50	B4L0627	12/22/2014	12/22/14 21:46	
Surrogate: 4-Bromofluorobenzene	*80.5 %*		*53 - 144*		B4L0627	12/22/2014	*12/22/14 21:46*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	250	50	B4L0672	12/24/2014	12/24/14 12:03	D2
Surrogate: 1,2-Dichloroethane-d4	*110 %*		*67 - 152*		B4L0672	12/24/2014	*12/24/14 12:03*	
Surrogate: 4-Bromofluorobenzene	*209 %*		*59 - 135*		B4L0672	12/24/2014	*12/24/14 12:03*	S7
Surrogate: Dibromofluoromethane	*92.1 %*		*71 - 150*		B4L0672	12/24/2014	*12/24/14 12:03*	
Surrogate: Toluene-d8	*97.1 %*		*77 - 129*		B4L0672	12/24/2014	*12/24/14 12:03*	

Semivolatile Organic Compounds by EPA 8270C

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B6-6

Lab ID: 1404056-12

Semivolatile Organic Compounds by EPA 8270C **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
1,2-Dichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
1,3-Dichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
1,4-Dichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
2,4,5-Trichlorophenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
2,4,6-Trichlorophenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
2,4-Dichlorophenol	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:32	
2,4-Dimethylphenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
2,4-Dinitrophenol	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:32	
2,4-Dinitrotoluene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
2,6-Dinitrotoluene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
2-Chloronaphthalene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
2-Chlorophenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
2-Methylnaphthalene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
2-Methylphenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
2-Nitroaniline	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:32	
2-Nitrophenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
3,3´-Dichlorobenzidine	ND	660	1	B4L0640	12/23/2014	12/27/14 01:32	
3-Nitroaniline	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:32	
4,6-Dinitro-2-methyphenol	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:32	
4-Bromophenyl-phenylether	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
4-Chloro-3-methylphenol	ND	660	1	B4L0640	12/23/2014	12/27/14 01:32	
4-Chloroaniline	ND	660	1	B4L0640	12/23/2014	12/27/14 01:32	
4-Chlorophenyl-phenylether	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
4-Methylphenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
4-Nitroaniline	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:32	
4-Nitrophenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Acenaphthene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Acenaphthylene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Anthracene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Benzidine (M)	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:32	
Benzo(a)anthracene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Benzo(a)pyrene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Benzo(b)fluoranthene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Benzo(g,h,i)perylene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Benzo(k)fluoranthene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Benzoic acid	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:32	

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
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Client Sample ID B6-6

Lab ID: 1404056-12

Semivolatile Organic Compounds by EPA 8270C **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzyl alcohol	ND	660	1	B4L0640	12/23/2014	12/27/14 01:32	
bis(2-chloroethoxy)methane	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
bis(2-Chloroethyl)ether	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
bis(2-chloroisopropyl)ether	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
bis(2-ethylhexyl)phthalate	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Butylbenzylphthalate	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Chrysene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Di-n-butylphthalate	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Di-n-octylphthalate	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Dibenz(a,h)anthracene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Dibenzofuran	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Diethyl phthalate	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Dimethyl phthalate	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Fluoranthene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Fluorene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Hexachlorobenzene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Hexachlorobutadiene	ND	660	1	B4L0640	12/23/2014	12/27/14 01:32	
Hexachlorocyclopentadiene	ND	660	1	B4L0640	12/23/2014	12/27/14 01:32	
Hexachloroethane	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Indeno(1,2,3-cd)pyrene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Isophorone	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
N-Nitroso-di-n propylamine	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
N-Nitrosodiphenylamine	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Naphthalene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Nitrobenzene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Pentachlorophenol	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:32	
Phenanthrene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Phenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Pyrene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:32	
Pyridine	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:32	
Surrogate: 1,2-Dichlorobenzene-d4	*64.6 %*	*46 - 103*		B4L0640	12/23/2014	*12/27/14 01:32*	
Surrogate: 2,4,6-Tribromophenol	*77.2 %*	*45 - 140*		B4L0640	12/23/2014	*12/27/14 01:32*	
Surrogate: 2-Chlorophenol-d4	*72.4 %*	*49 - 108*		B4L0640	12/23/2014	*12/27/14 01:32*	
Surrogate: 2-Fluorobiphenyl	*71.9 %*	*51 - 113*		B4L0640	12/23/2014	*12/27/14 01:32*	
Surrogate: 2-Fluorophenol	*67.2 %*	*39 - 113*		B4L0640	12/23/2014	*12/27/14 01:32*	
Surrogate: 4-Terphenyl-d14	*84.1 %*	*59 - 133*		B4L0640	12/23/2014	*12/27/14 01:32*	
Surrogate: Nitrobenzene-d5	*65.9 %*	*43 - 118*		B4L0640	12/23/2014	*12/27/14 01:32*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B6-6

Lab ID: 1404056-12

Semivolatile Organic Compounds by EPA 8270C **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Phenol-d5	*70.9 %*	*43 - 114*		B4L0640	12/23/2014	*12/27/14 01:32*	

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B6-7.5

Lab ID: 1404056-13

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		ND	1.0	1	B4L0627	12/22/2014	12/22/14 20:43	
Surrogate: 4-Bromofluorobenzene	*98.7 %*		*33 - 151*		B4L0627	12/22/2014	*12/22/14 20:43*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO		**1.5**	1.0	1	B4L0637	12/23/2014	12/23/14 12:15	
ORO		**1.8**	1.0	1	B4L0637	12/23/2014	12/23/14 12:15	
Surrogate: p-Terphenyl	*55.8 %*		*40 - 112*		B4L0637	12/23/2014	*12/23/14 12:15*	

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 20:43	
Toluene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 20:43	
Ethylbenzene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 20:43	
m,p-Xylene		ND	10	1	B4L0627	12/22/2014	12/22/14 20:43	
o-Xylene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 20:43	
Surrogate: 4-Bromofluorobenzene	*89.9 %*		*53 - 144*		B4L0627	12/22/2014	*12/22/14 20:43*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	5.0	1	B4L0672	12/24/2014	12/24/14 10:30	
Surrogate: 1,2-Dichloroethane-d4	*127 %*		*67 - 152*		B4L0672	12/24/2014	*12/24/14 10:30*	
Surrogate: 4-Bromofluorobenzene	*87.1 %*		*59 - 135*		B4L0672	12/24/2014	*12/24/14 10:30*	
Surrogate: Dibromofluoromethane	*116 %*		*71 - 150*		B4L0672	12/24/2014	*12/24/14 10:30*	
Surrogate: Toluene-d8	*93.8 %*		*77 - 129*		B4L0672	12/24/2014	*12/24/14 10:30*	

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
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Client Sample ID B6-11.5

Lab ID: 1404056-14

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		ND	1.0	1	B4L0627	12/22/2014	12/22/14 20:59	
Surrogate: 4-Bromofluorobenzene	*102 %*		*33 - 151*		B4L0627	12/22/2014	*12/22/14 20:59*	

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 20:59	
Toluene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 20:59	
Ethylbenzene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 20:59	
m,p-Xylene		ND	10	1	B4L0627	12/22/2014	12/22/14 20:59	
o-Xylene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 20:59	
Surrogate: 4-Bromofluorobenzene	*93.8 %*		*53 - 144*		B4L0627	12/22/2014	*12/22/14 20:59*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	5.0	1	B4L0672	12/24/2014	12/24/14 11:07	
Surrogate: 1,2-Dichloroethane-d4	*120 %*		*67 - 152*		B4L0672	12/24/2014	*12/24/14 11:07*	
Surrogate: 4-Bromofluorobenzene	*90.2 %*		*59 - 135*		B4L0672	12/24/2014	*12/24/14 11:07*	
Surrogate: Dibromofluoromethane	*112 %*		*71 - 150*		B4L0672	12/24/2014	*12/24/14 11:07*	
Surrogate: Toluene-d8	*94.0 %*		*77 - 129*		B4L0672	12/24/2014	*12/24/14 11:07*	

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Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B6-14.5

Lab ID: 1404056-15

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		**540**	50	50	B4L0627	12/22/2014	12/22/14 22:02	
Surrogate: 4-Bromofluorobenzene	*41.9 %*		*33 - 151*		B4L0627	12/22/2014	*12/22/14 22:02*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO		**120**	10	10	B4L0656	12/23/2014	12/23/14 14:41	
ORO		**13**	10	10	B4L0656	12/23/2014	12/23/14 14:41	
Surrogate: p-Terphenyl	*0%*		*40 - 112*		B4L0656	12/23/2014	*12/23/14 14:41*	S4

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	250	50	B4L0627	12/22/2014	12/22/14 22:02	
Toluene		ND	250	50	B4L0627	12/22/2014	12/22/14 22:02	
Ethylbenzene		**850**	250	50	B4L0627	12/22/2014	12/22/14 22:02	
m,p-Xylene		ND	500	50	B4L0627	12/22/2014	12/22/14 22:02	
o-Xylene		ND	250	50	B4L0627	12/22/2014	12/22/14 22:02	
Surrogate: 4-Bromofluorobenzene	*87.3 %*		*53 - 144*		B4L0627	12/22/2014	*12/22/14 22:02*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	250	50	B4L0672	12/24/2014	12/24/14 12:22	D2
Surrogate: 1,2-Dichloroethane-d4	*125 %*		*67 - 152*		B4L0672	12/24/2014	*12/24/14 12:22*	
Surrogate: 4-Bromofluorobenzene	*147 %*		*59 - 135*		B4L0672	12/24/2014	*12/24/14 12:22*	S7
Surrogate: Dibromofluoromethane	*104 %*		*71 - 150*		B4L0672	12/24/2014	*12/24/14 12:22*	
Surrogate: Toluene-d8	*118 %*		*77 - 129*		B4L0672	12/24/2014	*12/24/14 12:22*	

Semivolatile Organic Compounds by EPA 8270C

Analyst: BD

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B6-14.5

Lab ID: 1404056-15

Semivolatile Organic Compounds by EPA 8270C **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
1,2-Dichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
1,3-Dichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
1,4-Dichlorobenzene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
2,4,5-Trichlorophenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
2,4,6-Trichlorophenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
2,4-Dichlorophenol	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:59	
2,4-Dimethylphenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
2,4-Dinitrophenol	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:59	
2,4-Dinitrotoluene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
2,6-Dinitrotoluene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
2-Chloronaphthalene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
2-Chlorophenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
2-Methylnaphthalene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
2-Methylphenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
2-Nitroaniline	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:59	
2-Nitrophenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
3,3´-Dichlorobenzidine	ND	660	1	B4L0640	12/23/2014	12/27/14 01:59	
3-Nitroaniline	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:59	
4,6-Dinitro-2-methyphenol	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:59	
4-Bromophenyl-phenylether	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
4-Chloro-3-methylphenol	ND	660	1	B4L0640	12/23/2014	12/27/14 01:59	
4-Chloroaniline	ND	660	1	B4L0640	12/23/2014	12/27/14 01:59	
4-Chlorophenyl-phenylether	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
4-Methylphenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
4-Nitroaniline	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:59	
4-Nitrophenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Acenaphthene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Acenaphthylene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Anthracene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Benzidine (M)	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:59	
Benzo(a)anthracene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Benzo(a)pyrene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Benzo(b)fluoranthene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Benzo(g,h,i)perylene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Benzo(k)fluoranthene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Benzoic acid	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:59	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B6-14.5

Lab ID: 1404056-15

Semivolatile Organic Compounds by EPA 8270C **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzyl alcohol	ND	660	1	B4L0640	12/23/2014	12/27/14 01:59	
bis(2-chloroethoxy)methane	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
bis(2-Chloroethyl)ether	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
bis(2-chloroisopropyl)ether	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
bis(2-ethylhexyl)phthalate	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Butylbenzylphthalate	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Chrysene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Di-n-butylphthalate	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Di-n-octylphthalate	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Dibenz(a,h)anthracene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Dibenzofuran	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Diethyl phthalate	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Dimethyl phthalate	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Fluoranthene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Fluorene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Hexachlorobenzene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Hexachlorobutadiene	ND	660	1	B4L0640	12/23/2014	12/27/14 01:59	
Hexachlorocyclopentadiene	ND	660	1	B4L0640	12/23/2014	12/27/14 01:59	
Hexachloroethane	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Indeno(1,2,3-cd)pyrene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Isophorone	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
N-Nitroso-di-n propylamine	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
N-Nitrosodiphenylamine	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Naphthalene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Nitrobenzene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Pentachlorophenol	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:59	
Phenanthrene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Phenol	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Pyrene	ND	330	1	B4L0640	12/23/2014	12/27/14 01:59	
Pyridine	ND	1600	1	B4L0640	12/23/2014	12/27/14 01:59	
Surrogate: 1,2-Dichlorobenzene-d4	*64.8 %*	*46 - 103*		B4L0640	12/23/2014	*12/27/14 01:59*	
Surrogate: 2,4,6-Tribromophenol	*79.1 %*	*45 - 140*		B4L0640	12/23/2014	*12/27/14 01:59*	
Surrogate: 2-Chlorophenol-d4	*74.7 %*	*49 - 108*		B4L0640	12/23/2014	*12/27/14 01:59*	
Surrogate: 2-Fluorobiphenyl	*69.9 %*	*51 - 113*		B4L0640	12/23/2014	*12/27/14 01:59*	
Surrogate: 2-Fluorophenol	*70.9 %*	*39 - 113*		B4L0640	12/23/2014	*12/27/14 01:59*	
Surrogate: 4-Terphenyl-d14	*88.1 %*	*59 - 133*		B4L0640	12/23/2014	*12/27/14 01:59*	
Surrogate: Nitrobenzene-d5	*68.3 %*	*43 - 118*		B4L0640	12/23/2014	*12/27/14 01:59*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B6-14.5

Lab ID: 1404056-15

Semivolatile Organic Compounds by EPA 8270C **Analyst: BD**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Phenol-d5	*72.5 %*	*43 - 114*		B4L0640	12/23/2014	*12/27/14 01:59*	

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B7-6

Lab ID: 1404056-16

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		**550**	50	50	B4L0740	12/26/2014	12/26/14 15:19	
Surrogate: 4-Bromofluorobenzene	*27.4 %*		*33 - 151*		B4L0740	12/26/2014	*12/26/14 15:19*	S7

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO		**25**	1.0	1	B4L0656	12/23/2014	12/23/14 13:20	
ORO		**4.5**	1.0	1	B4L0656	12/23/2014	12/23/14 13:20	
Surrogate: p-Terphenyl	*63.7 %*		*40 - 112*		B4L0656	12/23/2014	*12/23/14 13:20*	

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	250	50	B4L0740	12/26/2014	12/26/14 15:19	
Toluene		ND	250	50	B4L0740	12/26/2014	12/26/14 15:19	
Ethylbenzene		ND	250	50	B4L0740	12/26/2014	12/26/14 15:19	
m,p-Xylene		ND	500	50	B4L0740	12/26/2014	12/26/14 15:19	
o-Xylene		ND	250	50	B4L0740	12/26/2014	12/26/14 15:19	
Surrogate: 4-Bromofluorobenzene	*81.9 %*		*53 - 144*		B4L0740	12/26/2014	*12/26/14 15:19*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	250	50	B4L0672	12/24/2014	12/24/14 12:40	D2
Surrogate: 1,2-Dichloroethane-d4	*115 %*		*67 - 152*		B4L0672	12/24/2014	*12/24/14 12:40*	
Surrogate: 4-Bromofluorobenzene	*101 %*		*59 - 135*		B4L0672	12/24/2014	*12/24/14 12:40*	
Surrogate: Dibromofluoromethane	*106 %*		*71 - 150*		B4L0672	12/24/2014	*12/24/14 12:40*	
Surrogate: Toluene-d8	*99.3 %*		*77 - 129*		B4L0672	12/24/2014	*12/24/14 12:40*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B7-7.5

Lab ID: 1404056-17

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		ND	1.0	1	B4L0627	12/22/2014	12/22/14 21:14	
Surrogate: 4-Bromofluorobenzene	*101 %*		*33 - 151*		B4L0627	12/22/2014	*12/22/14 21:14*	

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 21:14	
Toluene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 21:14	
Ethylbenzene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 21:14	
m,p-Xylene		ND	10	1	B4L0627	12/22/2014	12/22/14 21:14	
o-Xylene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 21:14	
Surrogate: 4-Bromofluorobenzene	*91.4 %*		*53 - 144*		B4L0627	12/22/2014	*12/22/14 21:14*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	5.0	1	B4L0672	12/24/2014	12/24/14 11:26	
Surrogate: 1,2-Dichloroethane-d4	*133 %*		*67 - 152*		B4L0672	12/24/2014	*12/24/14 11:26*	
Surrogate: 4-Bromofluorobenzene	*87.7 %*		*59 - 135*		B4L0672	12/24/2014	*12/24/14 11:26*	
Surrogate: Dibromofluoromethane	*119 %*		*71 - 150*		B4L0672	12/24/2014	*12/24/14 11:26*	
Surrogate: Toluene-d8	*92.7 %*		*77 - 129*		B4L0672	12/24/2014	*12/24/14 11:26*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B7-11.5

Lab ID: 1404056-18

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		ND	1.0	1	B4L0627	12/22/2014	12/22/14 21:30	
Surrogate: 4-Bromofluorobenzene	*97.9 %*		*33 - 151*		B4L0627	12/22/2014	*12/22/14 21:30*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO		**1.6**	1.0	1	B4L0656	12/23/2014	12/23/14 20:03	
ORO		**1.5**	1.0	1	B4L0656	12/23/2014	12/23/14 20:03	
Surrogate: p-Terphenyl	*56.1 %*		*40 - 112*		B4L0656	12/23/2014	*12/23/14 20:03*	

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 21:30	
Toluene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 21:30	
Ethylbenzene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 21:30	
m,p-Xylene		ND	10	1	B4L0627	12/22/2014	12/22/14 21:30	
o-Xylene		ND	5.0	1	B4L0627	12/22/2014	12/22/14 21:30	
Surrogate: 4-Bromofluorobenzene	*89.2 %*		*53 - 144*		B4L0627	12/22/2014	*12/22/14 21:30*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	5.0	1	B4L0672	12/24/2014	12/24/14 11:44	
Surrogate: 1,2-Dichloroethane-d4	*129 %*		*67 - 152*		B4L0672	12/24/2014	*12/24/14 11:44*	
Surrogate: 4-Bromofluorobenzene	*88.8 %*		*59 - 135*		B4L0672	12/24/2014	*12/24/14 11:44*	
Surrogate: Dibromofluoromethane	*116 %*		*71 - 150*		B4L0672	12/24/2014	*12/24/14 11:44*	
Surrogate: Toluene-d8	*95.1 %*		*77 - 129*		B4L0672	12/24/2014	*12/24/14 11:44*	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Client Sample ID B7-14.5

Lab ID: 1404056-19

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: MFR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		**1600**	50	50	B4L0645	12/23/2014	12/23/14 17:36	
Surrogate: 4-Bromofluorobenzene	*11.4 %*		*33 - 151*		B4L0645	12/23/2014	*12/23/14 17:36*	S7

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO		**380**	5.0	5	B4L0656	12/23/2014	12/24/14 08:06	
ORO		**7.9**	5.0	5	B4L0656	12/23/2014	12/24/14 08:06	
Surrogate: p-Terphenyl	*63.7 %*		*40 - 112*		B4L0656	12/23/2014	*12/24/14 08:06*	

BTEX/MTBE by EPA 8021

Analyst: MFR

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene		**1200**	250	50	B4L0645	12/23/2014	12/23/14 17:36	
Toluene		**1300**	250	50	B4L0645	12/23/2014	12/23/14 17:36	
Ethylbenzene		**5500**	250	50	B4L0645	12/23/2014	12/23/14 17:36	
m,p-Xylene		**21000**	500	50	B4L0645	12/23/2014	12/23/14 17:36	
o-Xylene		**7000**	250	50	B4L0645	12/23/2014	12/23/14 17:36	
Surrogate: 4-Bromofluorobenzene	*88.0 %*		*53 - 144*		B4L0645	12/23/2014	*12/23/14 17:36*	

Volatile Organic Compounds by EPA 8260B

Analyst: AG

Analyte		Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE		ND	250	50	B4L0672	12/24/2014	12/24/14 12:59	D2
Surrogate: 1,2-Dichloroethane-d4	*118 %*		*67 - 152*		B4L0672	12/24/2014	*12/24/14 12:59*	
Surrogate: 4-Bromofluorobenzene	*186 %*		*59 - 135*		B4L0672	12/24/2014	*12/24/14 12:59*	S7
Surrogate: Dibromofluoromethane	*87.3 %*		*71 - 150*		B4L0672	12/24/2014	*12/24/14 12:59*	
Surrogate: Toluene-d8	*139 %*		*77 - 129*		B4L0672	12/24/2014	*12/24/14 12:59*	S7

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0698 - EPA 3050B_S									
Blank (B4L0698-BLK1)					Prepared: 12/24/2014 Analyzed: 12/24/2014				
Antimony	ND	2.0			NR				
Arsenic	ND	1.0			NR				
Barium	ND	1.0			NR				
Beryllium	ND	1.0			NR				
Cadmium	ND	1.0			NR				
Chromium	ND	1.0			NR				
Cobalt	ND	1.0			NR				
Copper	ND	2.0			NR				
Lead	ND	1.0			NR				
Molybdenum	ND	1.0			NR				
Nickel	ND	1.0			NR				
Selenium	ND	1.0			NR				
Silver	ND	1.0			NR				
Thallium	ND	1.0			NR				
Vanadium	ND	1.0			NR				
Zinc	ND	1.0			NR				
LCS (B4L0698-BS1)					Prepared: 12/24/2014 Analyzed: 12/24/2014				
Antimony	47.5289	2.0	50.0000		95.1	80 - 120			
Arsenic	47.3152	1.0	50.0000		94.6	80 - 120			
Barium	50.6347	1.0	50.0000		101	80 - 120			
Beryllium	48.0543	1.0	50.0000		96.1	80 - 120			
Cadmium	47.4512	1.0	50.0000		94.9	80 - 120			
Chromium	50.4748	1.0	50.0000		101	80 - 120			
Cobalt	49.3596	1.0	50.0000		98.7	80 - 120			
Copper	48.4305	2.0	50.0000		96.9	80 - 120			
Lead	48.6782	1.0	50.0000		97.4	80 - 120			
Molybdenum	49.9764	1.0	50.0000		100	80 - 120			
Nickel	48.6473	1.0	50.0000		97.3	80 - 120			
Selenium	43.9985	1.0	50.0000		88.0	80 - 120			
Silver	47.5275	1.0	50.0000		95.1	80 - 120			
Thallium	47.5919	1.0	50.0000		95.2	80 - 120			
Vanadium	49.8896	1.0	50.0000		99.8	80 - 120			
Zinc	46.3852	1.0	50.0000		92.8	80 - 120			
Duplicate (B4L0698-DUP1)		**Source: 1404056-01**			Prepared: 12/24/2014 Analyzed: 12/24/2014				
Antimony	ND	2.0		0.280206	NR			20	
Arsenic	4.40373	1.0		4.59660	NR		4.29	20	
Barium	114.677	1.0		117.696	NR		2.60	20	
Beryllium	0.374902	1.0		0.387894	NR		3.41	20	

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0698 - EPA 3050B_S (continued)									
Duplicate (B4L0698-DUP1) - Continued		**Source: 1404056-01**		Prepared: 12/24/2014 Analyzed: 12/24/2014					
Cadmium	ND	1.0		ND	NR			20	
Chromium	29.4386	1.0		33.9820	NR		14.3	20	
Cobalt	8.46779	1.0		9.07105	NR		6.88	20	
Copper	28.7235	2.0		29.1348	NR		1.42	20	
Lead	5.78490	1.0		5.80265	NR		0.306	20	
Molybdenum	0.073065	1.0		0.117538	NR		46.7	20	R
Nickel	26.5052	1.0		28.0619	NR		5.71	20	
Selenium	ND	1.0		ND	NR			20	
Silver	ND	1.0		ND	NR			20	
Thallium	ND	1.0		ND	NR			20	
Vanadium	46.2545	1.0		47.0839	NR		1.78	20	
Zinc	26.3909	1.0		26.8850	NR		1.85	20	
Matrix Spike (B4L0698-MS1)		**Source: 1404056-01**		Prepared: 12/24/2014 Analyzed: 12/24/2014					
Antimony	78.8147	2.0	125.628	0.280206	62.5	21 - 126			
Arsenic	101.249	1.0	125.628	4.59660	76.9	57 - 113			
Barium	219.908	1.0	125.628	117.696	81.4	29 - 146			
Beryllium	96.9391	1.0	125.628	0.387894	76.9	65 - 110			
Cadmium	89.8282	1.0	125.628	ND	71.5	56 - 107			
Chromium	132.250	1.0	125.628	33.9820	78.2	49 - 127			
Cobalt	109.194	1.0	125.628	9.07105	79.7	57 - 112			
Copper	138.957	2.0	125.628	29.1348	87.4	56 - 127			
Lead	99.5165	1.0	125.628	5.80265	74.6	33 - 134			
Molybdenum	95.1639	1.0	125.628	0.117538	75.7	62 - 108			
Nickel	129.004	1.0	125.628	28.0619	80.3	42 - 127			
Selenium	90.5571	1.0	125.628	ND	72.1	58 - 105			
Silver	104.247	1.0	125.628	ND	83.0	63 - 113			
Thallium	90.5091	1.0	125.628	ND	72.0	53 - 110			
Vanadium	151.904	1.0	125.628	47.0839	83.4	66 - 112			
Zinc	115.757	1.0	125.628	26.8850	70.7	28 - 137			
Matrix Spike Dup (B4L0698-MSD1)		**Source: 1404056-01**		Prepared: 12/24/2014 Analyzed: 12/24/2014					
Antimony	76.1096	2.0	125.000	0.280206	60.7	21 - 126	3.49	20	
Arsenic	98.7326	1.0	125.000	4.59660	75.3	57 - 113	2.52	20	
Barium	216.715	1.0	125.000	117.696	79.2	29 - 146	1.46	20	
Beryllium	95.6739	1.0	125.000	0.387894	76.2	65 - 110	1.31	20	
Cadmium	88.1409	1.0	125.000	ND	70.5	56 - 107	1.90	20	
Chromium	126.830	1.0	125.000	33.9820	74.3	49 - 127	4.18	20	
Cobalt	106.346	1.0	125.000	9.07105	77.8	57 - 112	2.64	20	
Copper	135.703	2.0	125.000	29.1348	85.3	56 - 127	2.37	20	
Lead	97.6539	1.0	125.000	5.80265	73.5	33 - 134	1.89	20	
Molybdenum	92.9542	1.0	125.000	0.117538	74.3	62 - 108	2.35	20	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0698 - EPA 3050B_S (continued)									
Matrix Spike Dup (B4L0698-MSD1) - Continued		**Source: 1404056-01**		Prepared: 12/24/2014 Analyzed: 12/24/2014					
Nickel	125.505	1.0	125.000	28.0619	78.0	42 - 127	2.75	20	
Selenium	89.7694	1.0	125.000	ND	71.8	58 - 105	0.874	20	
Silver	101.152	1.0	125.000	ND	80.9	63 - 113	3.01	20	
Thallium	89.0018	1.0	125.000	ND	71.2	53 - 110	1.68	20	
Vanadium	147.913	1.0	125.000	47.0839	80.7	66 - 112	2.66	20	
Zinc	114.912	1.0	125.000	26.8850	70.4	28 - 137	0.733	20	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0699 - EPA 7471_S									
Blank (B4L0699-BLK1)				Prepared: 12/24/2014 Analyzed: 12/24/2014					
Mercury	ND	0.10			NR				
LCS (B4L0699-BS1)				Prepared: 12/24/2014 Analyzed: 12/24/2014					
Mercury	0.860716	0.10	0.833333		103	80 - 120			
Duplicate (B4L0699-DUP1)		**Source: 1404056-01**		Prepared: 12/24/2014 Analyzed: 12/24/2014					
Mercury	0.023745	0.10		0.019611	NR		19.1	20	
Matrix Spike (B4L0699-MS1)		**Source: 1404056-01**		Prepared: 12/24/2014 Analyzed: 12/24/2014					
Mercury	0.920088	0.10	0.833333	0.019611	108	70 - 130			
Matrix Spike Dup (B4L0699-MSD1)		**Source: 1404056-01**		Prepared: 12/24/2014 Analyzed: 12/24/2014					
Mercury	0.924911	0.10	0.833333	0.019611	109	70 - 130	0.523	20	
Post Spike (B4L0699-PS1)		**Source: 1404056-01**		Prepared: 12/24/2014 Analyzed: 12/24/2014					
Mercury	0.006704		5.00000E-3	0.000235	129	85 - 115			M1

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0615 - GCVOA_S									
Blank (B4L0615-BLK1)					Prepared: 12/22/2014 Analyzed: 12/22/2014				
Gasoline Range Organics	ND	1.0			NR				
Surrogate: 4-Bromofluorobenzene	*0.1964*		*0.200000*		*98.2*	*33 - 151*			
LCS (B4L0615-BS1)					Prepared: 12/22/2014 Analyzed: 12/22/2014				
Gasoline Range Organics	5.60900	1.0	5.00000		112	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.2021*		*0.200000*		*101*	*33 - 151*			
Duplicate (B4L0615-DUP1)		**Source: 1404056-01**			Prepared: 12/22/2014 Analyzed: 12/22/2014				
Gasoline Range Organics	296.300	50		302.500	NR		2.07	20	
Surrogate: 4-Bromofluorobenzene	*0.1242*		*0.200000*		*62.1*	*33 - 151*			
Matrix Spike (B4L0615-MS1)		**Source: 1404056-01**			Prepared: 12/22/2014 Analyzed: 12/22/2014				
Gasoline Range Organics	539.700	50	250.000	302.500	94.9	33 - 119			
Surrogate: 4-Bromofluorobenzene	*6.092*		*10.0000*		*60.9*	*33 - 151*			
Matrix Spike Dup (B4L0615-MSD1)		**Source: 1404056-01**			Prepared: 12/22/2014 Analyzed: 12/22/2014				
Gasoline Range Organics	555.400	50	250.000	302.500	101	33 - 119	2.87	20	
Surrogate: 4-Bromofluorobenzene	*6.490*		*10.0000*		*64.9*	*33 - 151*			
Batch B4L0627 - GCVOA_S									
Blank (B4L0627-BLK1)					Prepared: 12/22/2014 Analyzed: 12/22/2014				
Gasoline Range Organics	ND	1.0			NR				
C6-C12	ND	1.0			NR				
Surrogate: 4-Bromofluorobenzene	*0.1875*		*0.200000*		*93.8*	*33 - 151*			
LCS (B4L0627-BS1)					Prepared: 12/22/2014 Analyzed: 12/22/2014				
Gasoline Range Organics	5.87600	1.0	5.00000		118	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.1968*		*0.200000*		*98.4*	*33 - 151*			
Duplicate (B4L0627-DUP1)		**Source: 1404056-13**			Prepared: 12/22/2014 Analyzed: 12/22/2014				
Gasoline Range Organics	ND	1.0		ND	NR			20	
Surrogate: 4-Bromofluorobenzene	*0.1976*		*0.200000*		*98.8*	*33 - 151*			
Matrix Spike (B4L0627-MS1)		**Source: 1404077-01**			Prepared: 12/22/2014 Analyzed: 12/22/2014				
Gasoline Range Organics	4.94300	1.0	5.00000	ND	98.9	33 - 119			
Surrogate: 4-Bromofluorobenzene	*0.1972*		*0.200000*		*98.6*	*33 - 151*			
Matrix Spike Dup (B4L0627-MSD1)		**Source: 1404077-01**			Prepared: 12/22/2014 Analyzed: 12/22/2014				
Gasoline Range Organics	4.76000	1.0	5.00000	ND	95.2	33 - 119	3.77	20	

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0627 - GCVOA_S (continued)									
Matrix Spike Dup (B4L0627-MSD1) - Continued		**Source: 1404077-01**		Prepared: 12/22/2014 Analyzed: 12/22/2014					
Surrogate: 4-Bromofluorobenzene	*0.1916*		*0.200000*		*95.8*	*33 - 151*			
Batch B4L0645 - GCVOA_S									
Blank (B4L0645-BLK1)				Prepared: 12/23/2014 Analyzed: 12/23/2014					
Gasoline Range Organics	ND	1.0			NR				
Surrogate: 4-Bromofluorobenzene	*0.1886*		*0.200000*		*94.3*	*33 - 151*			
LCS (B4L0645-BS1)				Prepared: 12/23/2014 Analyzed: 12/23/2014					
Gasoline Range Organics	5.69400	1.0	5.00000		114	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.1962*		*0.200000*		*98.1*	*33 - 151*			
Duplicate (B4L0645-DUP1)		**Source: 1404056-19**		Prepared: 12/23/2014 Analyzed: 12/23/2014					
Gasoline Range Organics	1712.15	50		1641.55	NR		4.21	20	
Surrogate: 4-Bromofluorobenzene	*0.02228*		*0.200000*		*11.1*	*33 - 151*			S7
Matrix Spike (B4L0645-MS1)		**Source: 1404076-04**		Prepared: 12/23/2014 Analyzed: 12/23/2014					
Gasoline Range Organics	5.25500	1.0	5.00000	ND	105	33 - 119			
Surrogate: 4-Bromofluorobenzene	*0.2061*		*0.200000*		*103*	*33 - 151*			
Matrix Spike Dup (B4L0645-MSD1)		**Source: 1404076-04**		Prepared: 12/23/2014 Analyzed: 12/23/2014					
Gasoline Range Organics	5.01400	1.0	5.00000	ND	100	33 - 119	4.69	20	
Surrogate: 4-Bromofluorobenzene	*0.2011*		*0.200000*		*101*	*33 - 151*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0740 - GCVOA_S									
Blank (B4L0740-BLK1)				Prepared: 12/26/2014 Analyzed: 12/26/2014					
Gasoline Range Organics	ND	1.0			NR				
Surrogate: 4-Bromofluorobenzene	*0.1947*		*0.200000*		*97.4*	*33 - 151*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0740 - GCVOA_S (continued)									
LCS (B4L0740-BS1)				Prepared: 12/26/2014 Analyzed: 12/26/2014					
Gasoline Range Organics	5.43800	1.0	5.00000		109	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.1914*		*0.200000*		*95.7*	*33 - 151*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0740 - GCVOA_S (continued)									
Duplicate (B4L0740-DUP1)		**Source: 1404056-16**		Prepared: 12/26/2014 Analyzed: 12/26/2014					
Gasoline Range Organics	493.400	50		549.200	NR		10.7	20	
Surrogate: 4-Bromofluorobenzene	*0.06116*		*0.200000*		*30.6*	*33 - 151*			S7

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0740 - GCVOA_S (continued)									
Matrix Spike (B4L0740-MS1)		**Source: 1404056-16**		Prepared: 12/26/2014 Analyzed: 12/26/2014					
Gasoline Range Organics	703.550	50	250.000	549.200	61.7	33 - 119			
Surrogate: 4-Bromofluorobenzene	*0.06405*		*0.200000*		*32.0*	*33 - 151*			S7

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0740 - GCVOA_S (continued)									
Matrix Spike Dup (B4L0740-MSD1)		**Source: 1404056-16**		Prepared: 12/26/2014 Analyzed: 12/26/2014					
Gasoline Range Organics	708.650	50	250.000	549.200	63.8	33 - 119	0.722	20	
Surrogate: 4-Bromofluorobenzene	*0.06893*		*0.200000*		*34.5*	*33 - 151*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0637 - GCSEMI_DRO_LL_S									
Blank (B4L0637-BLK1)					Prepared: 12/23/2014 Analyzed: 12/23/2014				
DRO	ND	1.0			NR				
ORO	ND	1.0			NR				
Surrogate: p-Terphenyl	*1.934*		*2.96667*		*65.2*	*40 - 112*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0637 - GCSEMI_DRO_LL_S (continued)									
LCS (B4L0637-BS1)					Prepared: 12/23/2014 Analyzed: 12/23/2014				
DRO	20.4180	1.0	33.3333		61.3	51 - 114			
Surrogate: p-Terphenyl	*1.690*		*2.96667*		*57.0*	*40 - 112*			

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Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0637 - GCSEMI_DRO_LL_S (continued)									
Duplicate (B4L0637-DUP1)		**Source: 1404056-06**		Prepared: 12/23/2014 Analyzed: 12/23/2014					
DRO	1.36933	1.0		2.08500	NR		41.4	20	R
Surrogate: p-Terphenyl	*1.702*		*2.96667*		*57.4*	*40 - 112*			

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Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0637 - GCSEMI_DRO_LL_S (continued)									
Matrix Spike (B4L0637-MS1)		**Source: 1404077-02**		Prepared: 12/23/2014 Analyzed: 12/23/2014					
DRO	19.3627	1.0	33.3333	1.96633	52.2	8 - 121			
Surrogate: p-Terphenyl	*1.605*		*2.96667*		*54.1*	*40 - 112*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0637 - GCSEMI_DRO_LL_S (continued)									
Matrix Spike Dup (B4L0637-MSD1)		**Source: 1404077-02**		Prepared: 12/23/2014 Analyzed: 12/23/2014					
DRO	14.9280	1.0	33.3333	1.96633	38.9	8 - 121	25.9	20	R
Surrogate: p-Terphenyl	*1.462*		*2.96667*		*49.3*	*40 - 112*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0656 - GCSEMI_DRO_LL_S									
Blank (B4L0656-BLK1)					Prepared: 12/23/2014 Analyzed: 12/23/2014				
DRO	ND	1.0			NR				
ORO	ND	1.0			NR				
Surrogate: p-Terphenyl	*2.026*		*2.96667*		*68.3*	*40 - 112*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0656 - GCSEMI_DRO_LL_S (continued)									
LCS (B4L0656-BS1)				Prepared: 12/23/2014 Analyzed: 12/23/2014					
DRO	20.4557	1.0	33.3333		61.4	51 - 114			
Surrogate: p-Terphenyl	*1.865*		*2.96667*		*62.9*	*40 - 112*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0656 - GCSEMI_DRO_LL_S (continued)									
Duplicate (B4L0656-DUP1)		**Source: 1404056-16**		Prepared: 12/23/2014 Analyzed: 12/23/2014					
DRO	32.2813	1.0		25.0487	NR		25.2	20	
Surrogate: p-Terphenyl	*1.846*		*2.96667*		*62.2*	*40 - 112*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0656 - GCSEMI_DRO_LL_S (continued)									
Matrix Spike (B4L0656-MS1)		**Source: 1404056-16**		Prepared: 12/23/2014 Analyzed: 12/23/2014					
DRO	31.6613	1.0	33.3333	25.0487	19.8	8 - 121			
Surrogate: p-Terphenyl	*2.215*		*2.96667*		*74.7*	*40 - 112*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0656 - GCSEMI_DRO_LL_S (continued)									
Matrix Spike Dup (B4L0656-MSD1)		**Source: 1404056-16**		Prepared: 12/23/2014 Analyzed: 12/23/2014					
DRO	31.7903	1.0	33.3333	25.0487	20.2	8 - 121	0.407	20	
Surrogate: p-Terphenyl	*1.732*		*2.96667*		*58.4*	*40 - 112*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

BTEX/MTBE by EPA 8021 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0615 - GCVOA_S									
Blank (B4L0615-BLK1)				Prepared: 12/22/2014 Analyzed: 12/22/2014					
Benzene	ND	5.0			NR				
Toluene	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
o-Xylene	ND	5.0			NR				
Surrogate: 4-Bromofluorobenzene	*178.8*		*200.000*		*89.4*	*53 - 144*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0615 - GCVOA_S (continued)									
LCS (B4L0615-BS2)				Prepared: 12/22/2014 Analyzed: 12/22/2014					
Benzene	84.9280	5.0	100.000		84.9	70 - 130			
Toluene	85.6710	5.0	100.000		85.7	70 - 130			
Ethylbenzene	88.3680	5.0	100.000		88.4	70 - 130			
m,p-Xylene	184.565	10	200.000		92.3	70 - 130			
o-Xylene	89.4670	5.0	100.000		89.5	70 - 130			
Surrogate: 4-Bromofluorobenzene	*176.4*		*200.000*		*88.2*	*53 - 144*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0615 - GCVOA_S (continued)									
Duplicate (B4L0615-DUP1)		**Source: 1404056-01**		Prepared: 12/22/2014 Analyzed: 12/22/2014					
Benzene	ND	250		ND	NR			20	
Toluene	ND	250		36.9500	NR			20	
Ethylbenzene	42.4000	250		43.9500	NR		3.59	20	
m,p-Xylene	242.600	500		244.300	NR		0.698	20	
o-Xylene	1619.55	250		ND	NR			20	
Surrogate: 4-Bromofluorobenzene	*165.8*		*200.000*		*82.9*	*53 - 144*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
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BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0615 - GCVOA_S (continued)									
Matrix Spike (B4L0615-MS1)		**Source: 1404056-01**		Prepared: 12/22/2014 Analyzed: 12/22/2014					
Benzene	1831.85	250	2037.50	ND	89.9	14 - 146			
Toluene	7955.45	250	10112.5	36.9500	78.3	33 - 123			
Ethylbenzene	2360.30	250	3800.00	43.9500	61.0	20 - 102			
m,p-Xylene	9215.95	500	10325.0	244.300	86.9	39 - 120			
o-Xylene	3071.70	250	3675.00	ND	83.6	34 - 131			
Surrogate: 4-Bromofluorobenzene	*8126*		*10000.0*		*81.3*	*53 - 144*			

Certificate of Analysis

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BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0615 - GCVOA_S (continued)									
Matrix Spike Dup (B4L0615-MSD1)		**Source: 1404056-01**		Prepared: 12/22/2014 Analyzed: 12/22/2014					
Benzene	1881.50	250	2037.50	ND	92.3	14 - 146	2.67	20	
Toluene	8208.95	250	10112.5	36.9500	80.8	33 - 123	3.14	20	
Ethylbenzene	2426.45	250	3800.00	43.9500	62.7	20 - 102	2.76	20	
m,p-Xylene	9466.10	500	10325.0	244.300	89.3	39 - 120	2.68	20	
o-Xylene	3209.80	250	3675.00	ND	87.3	34 - 131	4.40	20	
Surrogate: 4-Bromofluorobenzene	*8514*		*10000.0*		*85.1*	*53 - 144*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0627 - GCVOA_S									
Blank (B4L0627-BLK1)				Prepared: 12/22/2014 Analyzed: 12/22/2014					
Benzene	ND	5.0			NR				
Toluene	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
o-Xylene	ND	5.0			NR				
Surrogate: 4-Bromofluorobenzene	*172.5*		*200.000*		*86.3*	*53 - 144*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
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BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0627 - GCVOA_S (continued)									
LCS (B4L0627-BS2)				Prepared: 12/22/2014 Analyzed: 12/22/2014					
Benzene	89.9460	5.0	100.000		89.9	70 - 130			
Toluene	90.4390	5.0	100.000		90.4	70 - 130			
Ethylbenzene	93.2340	5.0	100.000		93.2	70 - 130			
m,p-Xylene	195.088	10	200.000		97.5	70 - 130			
o-Xylene	94.1620	5.0	100.000		94.2	70 - 130			
Surrogate: 4-Bromofluorobenzene	*176.1*		*200.000*		*88.1*	*53 - 144*			

Certificate of Analysis

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Rancho Cordova , CA 95742	Reported : 12/30/2014

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0627 - GCVOA_S (continued)									
Duplicate (B4L0627-DUP1)		**Source: 1404056-13**		Prepared: 12/22/2014 Analyzed: 12/22/2014					
Benzene	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
Ethylbenzene	ND	5.0		ND	NR			20	
m,p-Xylene	ND	10		ND	NR			20	
o-Xylene	ND	5.0		ND	NR			20	
Surrogate: 4-Bromofluorobenzene	*182.8*		*200.000*		*91.4*	*53 - 144*			

Certificate of Analysis

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Rancho Cordova , CA 95742	Reported : 12/30/2014

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0627 - GCVOA_S (continued)									
Matrix Spike (B4L0627-MS1)		**Source: 1404077-01**		Prepared: 12/22/2014 Analyzed: 12/22/2014					
Benzene	38.1500	5.0	40.7500	ND	93.6	14 - 146			
Toluene	148.022	5.0	202.250	ND	73.2	33 - 123			
Ethylbenzene	45.3330	5.0	76.0000	ND	59.6	20 - 102			
m,p-Xylene	163.891	10	206.500	ND	79.4	39 - 120			
o-Xylene	61.0960	5.0	73.5000	ND	83.1	34 - 131			
Surrogate: 4-Bromofluorobenzene	*185.7*		*200.000*		*92.9*	*53 - 144*			

Certificate of Analysis

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Rancho Cordova , CA 95742	Reported : 12/30/2014

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0627 - GCVOA_S (continued)									
Matrix Spike Dup (B4L0627-MSD1)		**Source: 1404077-01**		Prepared: 12/22/2014 Analyzed: 12/22/2014					
Benzene	37.2720	5.0	40.7500	ND	91.5	14 - 146	2.33	20	
Toluene	145.582	5.0	202.250	ND	72.0	33 - 123	1.66	20	
Ethylbenzene	44.4000	5.0	76.0000	ND	58.4	20 - 102	2.08	20	
m,p-Xylene	160.490	10	206.500	ND	77.7	39 - 120	2.10	20	
o-Xylene	60.3600	5.0	73.5000	ND	82.1	34 - 131	1.21	20	
Surrogate: 4-Bromofluorobenzene	*181.8*		*200.000*		*90.9*	*53 - 144*			

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BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0645 - GCVOA_S									
Blank (B4L0645-BLK1)				Prepared: 12/23/2014 Analyzed: 12/23/2014					
Benzene	ND	5.0			NR				
Toluene	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
o-Xylene	ND	5.0			NR				
Surrogate: 4-Bromofluorobenzene	*171.5*		*200.000*		*85.8*	*53 - 144*			

Certificate of Analysis

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Rancho Cordova , CA 95742	Reported : 12/30/2014

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0645 - GCVOA_S (continued)									
LCS (B4L0645-BS2)				Prepared: 12/23/2014 Analyzed: 12/23/2014					
Benzene	88.1270	5.0	100.000		88.1	70 - 130			
Toluene	89.5320	5.0	100.000		89.5	70 - 130			
Ethylbenzene	92.8640	5.0	100.000		92.9	70 - 130			
m,p-Xylene	194.196	10	200.000		97.1	70 - 130			
o-Xylene	93.7940	5.0	100.000		93.8	70 - 130			
Surrogate: 4-Bromofluorobenzene	*187.8*		*200.000*		*93.9*	*53 - 144*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0645 - GCVOA_S (continued)									
Duplicate (B4L0645-DUP1)		**Source: 1404056-19**		Prepared: 12/23/2014 Analyzed: 12/23/2014					
Benzene	1340.85	250		1174.45	NR		13.2	20	
Toluene	1359.25	250		1274.90	NR		6.40	20	
Ethylbenzene	5977.25	250		5490.60	NR		8.49	20	
m,p-Xylene	23060.0	500		21426.0	NR		7.35	20	
o-Xylene	6731.00	250		7019.35	NR		4.19	20	
Surrogate: 4-Bromofluorobenzene	*183.5*		*200.000*		*91.7*	*53 - 144*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0645 - GCVOA_S (continued)									
Matrix Spike (B4L0645-MS1)		**Source: 1404076-04**		Prepared: 12/23/2014 Analyzed: 12/23/2014					
Benzene	40.5680	5.0	40.7500	ND	99.6	14 - 146			
Toluene	157.757	5.0	202.250	ND	78.0	33 - 123			
Ethylbenzene	48.1480	5.0	76.0000	ND	63.4	20 - 102			
m,p-Xylene	174.458	10	206.500	ND	84.5	39 - 120			
o-Xylene	65.5530	5.0	73.5000	ND	89.2	34 - 131			
Surrogate: 4-Bromofluorobenzene	*193.0*		*200.000*		*96.5*	*53 - 144*			

Certificate of Analysis

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BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0645 - GCVOA_S (continued)									
Matrix Spike Dup (B4L0645-MSD1)		**Source: 1404076-04**		Prepared: 12/23/2014 Analyzed: 12/23/2014					
Benzene	34.2900	5.0	40.7500	ND	84.1	14 - 146	16.8	20	
Toluene	152.889	5.0	202.250	ND	75.6	33 - 123	3.13	20	
Ethylbenzene	46.3960	5.0	76.0000	ND	61.0	20 - 102	3.71	20	
m,p-Xylene	168.518	10	206.500	ND	81.6	39 - 120	3.46	20	
o-Xylene	63.5540	5.0	73.5000	ND	86.5	34 - 131	3.10	20	
Surrogate: 4-Bromofluorobenzene	*189.7*		*200.000*		*94.8*	*53 - 144*			

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BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0740 - GCVOA_S									
Blank (B4L0740-BLK1)				Prepared: 12/26/2014 Analyzed: 12/26/2014					
Benzene	ND	5.0			NR				
Toluene	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
o-Xylene	ND	5.0			NR				
Surrogate: 4-Bromofluorobenzene	*173.9*		*200.000*		*87.0*	*53 - 144*			

Certificate of Analysis

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Rancho Cordova , CA 95742	Reported : 12/30/2014

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0740 - GCVOA_S (continued)									
LCS (B4L0740-BS2)				Prepared: 12/26/2014 Analyzed: 12/26/2014					
Benzene	84.6600	5.0	100.000		84.7	70 - 130			
Toluene	87.3580	5.0	100.000		87.4	70 - 130			
Ethylbenzene	91.2180	5.0	100.000		91.2	70 - 130			
m,p-Xylene	190.945	10	200.000		95.5	70 - 130			
o-Xylene	92.2980	5.0	100.000		92.3	70 - 130			
Surrogate: 4-Bromofluorobenzene	*177.1*		*200.000*		*88.5*	*53 - 144*			

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BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0740 - GCVOA_S (continued)									
Duplicate (B4L0740-DUP1)		**Source: 1404056-16**		Prepared: 12/26/2014 Analyzed: 12/26/2014					
Benzene	ND	250		ND	NR			20	
Toluene	164.650	250		ND	NR			20	R
Ethylbenzene	339.400	250		ND	NR			20	
m,p-Xylene	548.450	500		ND	NR			20	
o-Xylene	3265.80	250		ND	NR			20	
Surrogate: 4-Bromofluorobenzene	*155.8*		*200.000*		*77.9*	*53 - 144*			

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0740 - GCVOA_S (continued)									
Matrix Spike (B4L0740-MS1)		**Source: 1404056-16**		Prepared: 12/26/2014 Analyzed: 12/26/2014					
Benzene	1826.35	250	2037.50	ND	89.6	14 - 146			
Toluene	7779.10	250	10112.5	ND	76.9	33 - 123			
Ethylbenzene	2589.75	250	3800.00	ND	68.2	20 - 102			
m,p-Xylene	9549.55	500	10325.0	ND	92.5	39 - 120			
o-Xylene	2670.15	250	3675.00	ND	72.7	34 - 131			M1
Surrogate: 4-Bromofluorobenzene	*156.9*		*200.000*		*78.5*	*53 - 144*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
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BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0740 - GCVOA_S (continued)									
Matrix Spike Dup (B4L0740-MSD1)		**Source: 1404056-16**		Prepared: 12/26/2014 Analyzed: 12/26/2014					
Benzene	1788.40	250	2037.50	ND	87.8	14 - 146	2.10	20	
Toluene	7642.80	250	10112.5	ND	75.6	33 - 123	1.77	20	
Ethylbenzene	2531.70	250	3800.00	ND	66.6	20 - 102	2.27	20	
m,p-Xylene	9343.05	500	10325.0	ND	90.5	39 - 120	2.19	20	
o-Xylene	2657.90	250	3675.00	ND	72.3	34 - 131	0.460	20	M1
Surrogate: 4-Bromofluorobenzene	*157.6*		*200.000*		*78.8*	*53 - 144*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0610 - MSVOA_S									
Blank (B4L0610-BLK1)				Prepared: 12/22/2014 Analyzed: 12/22/2014					
MTBE	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	*64.04*		*50.0000*		*128*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*45.82*		*50.0000*		*91.6*	*59 - 135*			
Surrogate: Dibromofluoromethane	*62.21*		*50.0000*		*124*	*71 - 150*			
Surrogate: Toluene-d8	*49.67*		*50.0000*		*99.3*	*77 - 129*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0610 - MSVOA_S (continued)									
LCS (B4L0610-BS1)				Prepared: 12/22/2014 Analyzed: 12/22/2014					
1,1-Dichloroethene	45.3500	5.0	50.0000		90.7	62 - 129			
Benzene	95.8000	5.0	100.000		95.8	82 - 121			
Chlorobenzene	47.0300	5.0	50.0000		94.1	83 - 132			
MTBE	50.5700	5.0	50.0000		101	55 - 138			
Toluene	97.3100	5.0	100.000		97.3	80 - 129			
Trichloroethene	46.6900	5.0	50.0000		93.4	75 - 133			
Surrogate: 1,2-Dichloroethane-d4	*58.17*		*50.0000*		*116*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*51.00*		*50.0000*		*102*	*59 - 135*			
Surrogate: Dibromofluoromethane	*59.30*		*50.0000*		*119*	*71 - 150*			
Surrogate: Toluene-d8	*53.30*		*50.0000*		*107*	*77 - 129*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0610 - MSVOA_S (continued)									
LCS Dup (B4L0610-BSD1)				Prepared: 12/22/2014 Analyzed: 12/22/2014					
1,1-Dichloroethene	53.3700	5.0	50.0000		107	62 - 129	16.2	20	
Benzene	113.870	5.0	100.000		114	82 - 121	17.2	20	
Chlorobenzene	49.4500	5.0	50.0000		98.9	83 - 132	5.02	20	
MTBE	52.2600	5.0	50.0000		105	55 - 138	3.29	20	
Toluene	92.7900	5.0	100.000		92.8	80 - 129	4.76	20	
Trichloroethene	49.2900	5.0	50.0000		98.6	75 - 133	5.42	20	
Surrogate: 1,2-Dichloroethane-d4	*55.68*		*50.0000*		*111*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*53.16*		*50.0000*		*106*	*59 - 135*			
Surrogate: Dibromofluoromethane	*50.35*		*50.0000*		*101*	*71 - 150*			
Surrogate: Toluene-d8	*48.83*		*50.0000*		*97.7*	*77 - 129*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0610 - MSVOA_S (continued)									
Duplicate (B4L0610-DUP1)		**Source: 1404056-06**		Prepared: 12/22/2014 Analyzed: 12/22/2014					
1,1-Dichloroethene	ND	5.0		ND	NR			20	
Benzene	ND	5.0		ND	NR			20	
Chlorobenzene	ND	5.0		ND	NR			20	
MTBE	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
Trichloroethene	ND	5.0		ND	NR			20	
Surrogate: 1,2-Dichloroethane-d4	*66.62*		*50.0000*		*133*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*46.18*		*50.0000*		*92.4*	*59 - 135*			
Surrogate: Dibromofluoromethane	*65.74*		*50.0000*		*131*	*71 - 150*			
Surrogate: Toluene-d8	*50.29*		*50.0000*		*101*	*77 - 129*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0610 - MSVOA_S (continued)									
Matrix Spike (B4L0610-MS1)		**Source: 1404056-06**		Prepared: 12/22/2014 Analyzed: 12/22/2014					
1,1-Dichloroethene	49.8200	5.0	50.0000	ND	99.6	51 - 125			
Benzene	88.8600	5.0	100.000	ND	88.9	61 - 123			
Chlorobenzene	44.3700	5.0	50.0000	ND	88.7	46 - 140			
MTBE	53.7400	5.0	50.0000	ND	107	45 - 135			
Toluene	92.4600	5.0	100.000	ND	92.5	45 - 140			
Trichloroethene	46.4900	5.0	50.0000	ND	93.0	50 - 146			
Surrogate: 1,2-Dichloroethane-d4	*61.31*		*50.0000*		*123*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*52.68*		*50.0000*		*105*	*59 - 135*			
Surrogate: Dibromofluoromethane	*63.24*		*50.0000*		*126*	*71 - 150*			
Surrogate: Toluene-d8	*53.03*		*50.0000*		*106*	*77 - 129*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0610 - MSVOA_S (continued)									
Matrix Spike Dup (B4L0610-MSD1)		**Source: 1404056-06**		Prepared: 12/22/2014 Analyzed: 12/22/2014					
1,1-Dichloroethene	43.6400	5.0	50.0000	ND	87.3	51 - 125	13.2	20	
Benzene	88.1900	5.0	100.000	ND	88.2	61 - 123	0.757	20	
Chlorobenzene	43.2500	5.0	50.0000	ND	86.5	46 - 140	2.56	20	
MTBE	52.6600	5.0	50.0000	ND	105	45 - 135	2.03	20	
Toluene	92.2300	5.0	100.000	ND	92.2	45 - 140	0.249	20	
Trichloroethene	45.9000	5.0	50.0000	ND	91.8	50 - 146	1.28	20	
Surrogate: 1,2-Dichloroethane-d4	*65.27*		*50.0000*		*131*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*52.30*		*50.0000*		*105*	*59 - 135*			
Surrogate: Dibromofluoromethane	*63.11*		*50.0000*		*126*	*71 - 150*			
Surrogate: Toluene-d8	*53.32*		*50.0000*		*107*	*77 - 129*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0672 - MSVOA_S									
Blank (B4L0672-BLK1)			Prepared: 12/24/2014 Analyzed: 12/24/2014						
MTBE	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	*59.33*		*50.0000*		*119*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*42.65*		*50.0000*		*85.3*	*59 - 135*			
Surrogate: Dibromofluoromethane	*58.03*		*50.0000*		*116*	*71 - 150*			
Surrogate: Toluene-d8	*46.53*		*50.0000*		*93.1*	*77 - 129*			

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0672 - MSVOA_S (continued)									
LCS (B4L0672-BS1)				Prepared: 12/24/2014 Analyzed: 12/24/2014					
1,1-Dichloroethene	46.0000	5.0	50.0000		92.0	62 - 129			
Benzene	96.6500	5.0	100.000		96.6	82 - 121			
Chlorobenzene	48.0600	5.0	50.0000		96.1	83 - 132			
MTBE	47.4500	5.0	50.0000		94.9	55 - 138			
Toluene	100.970	5.0	100.000		101	80 - 129			
Trichloroethene	48.7000	5.0	50.0000		97.4	75 - 133			
Surrogate: 1,2-Dichloroethane-d4	*54.10*		*50.0000*		*108*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*49.84*		*50.0000*		*99.7*	*59 - 135*			
Surrogate: Dibromofluoromethane	*51.69*		*50.0000*		*103*	*71 - 150*			
Surrogate: Toluene-d8	*49.21*		*50.0000*		*98.4*	*77 - 129*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0672 - MSVOA_S (continued)									
Duplicate (B4L0672-DUP1)		**Source: 1404056-13**		Prepared: 12/24/2014 Analyzed: 12/24/2014					
1,1-Dichloroethene	ND	5.0		ND	NR			20	
Benzene	ND	5.0		ND	NR			20	
Chlorobenzene	ND	5.0		ND	NR			20	
MTBE	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
Trichloroethene	ND	5.0		ND	NR			20	
Surrogate: 1,2-Dichloroethane-d4	*64.71*		*50.0000*		*129*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*43.48*		*50.0000*		*87.0*	*59 - 135*			
Surrogate: Dibromofluoromethane	*59.47*		*50.0000*		*119*	*71 - 150*			
Surrogate: Toluene-d8	*46.78*		*50.0000*		*93.6*	*77 - 129*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0672 - MSVOA_S (continued)									
Matrix Spike (B4L0672-MS1)		**Source: 1404056-13**		Prepared: 12/24/2014 Analyzed: 12/24/2014					
1,1-Dichloroethene	47.8000	5.0	50.0000	ND	95.6	51 - 125			
Benzene	93.8700	5.0	100.000	ND	93.9	61 - 123			
Chlorobenzene	46.3900	5.0	50.0000	ND	92.8	46 - 140			
MTBE	50.1400	5.0	50.0000	ND	100	45 - 135			
Toluene	97.3000	5.0	100.000	ND	97.3	45 - 140			
Trichloroethene	48.2900	5.0	50.0000	ND	96.6	50 - 146			
Surrogate: 1,2-Dichloroethane-d4	*59.04*		*50.0000*		*118*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*50.45*		*50.0000*		*101*	*59 - 135*			
Surrogate: Dibromofluoromethane	*55.43*		*50.0000*		*111*	*71 - 150*			
Surrogate: Toluene-d8	*49.90*		*50.0000*		*99.8*	*77 - 129*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0672 - MSVOA_S (continued)									
Matrix Spike Dup (B4L0672-MSD1)		**Source: 1404056-13**		Prepared: 12/24/2014 Analyzed: 12/24/2014					
1,1-Dichloroethene	42.8200	5.0	50.0000	ND	85.6	51 - 125	11.0	20	
Benzene	90.6500	5.0	100.000	ND	90.6	61 - 123	3.49	20	
Chlorobenzene	46.3100	5.0	50.0000	ND	92.6	46 - 140	0.173	20	
MTBE	47.0700	5.0	50.0000	ND	94.1	45 - 135	6.32	20	
Toluene	95.8800	5.0	100.000	ND	95.9	45 - 140	1.47	20	
Trichloroethene	45.9200	5.0	50.0000	ND	91.8	50 - 146	5.03	20	
Surrogate: 1,2-Dichloroethane-d4	*57.56*		*50.0000*		*115*	*67 - 152*			
Surrogate: 4-Bromofluorobenzene	*51.52*		*50.0000*		*103*	*59 - 135*			
Surrogate: Dibromofluoromethane	*52.90*		*50.0000*		*106*	*71 - 150*			
Surrogate: Toluene-d8	*50.32*		*50.0000*		*101*	*77 - 129*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Semivolatile Organic Compounds by EPA 8270C - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0640 - MSSEMI_S									
Blank (B4L0640-BLK1)				Prepared: 12/23/2014 Analyzed: 12/23/2014					
1,2,4-Trichlorobenzene	ND	330			NR				
1,2-Dichlorobenzene	ND	330			NR				
1,3-Dichlorobenzene	ND	330			NR				
1,4-Dichlorobenzene	ND	330			NR				
2,4,5-Trichlorophenol	ND	330			NR				
2,4,6-Trichlorophenol	ND	330			NR				
2,4-Dichlorophenol	ND	1600			NR				
2,4-Dimethylphenol	ND	330			NR				
2,4-Dinitrophenol	ND	1600			NR				
2,4-Dinitrotoluene	ND	330			NR				
2,6-Dinitrotoluene	ND	330			NR				
2-Chloronaphthalene	ND	330			NR				
2-Chlorophenol	ND	330			NR				
2-Methylnaphthalene	ND	330			NR				
2-Methylphenol	ND	330			NR				
2-Nitroaniline	ND	1600			NR				
2-Nitrophenol	ND	330			NR				
3,3´-Dichlorobenzidine	ND	660			NR				
3-Nitroaniline	ND	1600			NR				
4,6-Dinitro-2-methyphenol	ND	1600			NR				
4-Bromophenyl-phenylether	ND	330			NR				
4-Chloro-3-methylphenol	ND	660			NR				
4-Chloroaniline	ND	660			NR				
4-Chlorophenyl-phenylether	ND	330			NR				
4-Methylphenol	ND	330			NR				
4-Nitroaniline	ND	1600			NR				
4-Nitrophenol	ND	330			NR				
Acenaphthene	ND	330			NR				
Acenaphthylene	ND	330			NR				
Anthracene	ND	330			NR				
Benzidine (M)	ND	1600			NR				
Benzo(a)anthracene	ND	330			NR				
Benzo(a)pyrene	ND	330			NR				
Benzo(b)fluoranthene	ND	330			NR				
Benzo(g,h,i)perylene	ND	330			NR				
Benzo(k)fluoranthene	ND	330			NR				
Benzoic acid	ND	1600			NR				
Benzyl alcohol	ND	660			NR				
bis(2-chloroethoxy)methane	ND	330			NR				
bis(2-Chloroethyl)ether	ND	330			NR				
bis(2-chloroisopropyl)ether	ND	330			NR				

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0640 - MSSEMI_S (continued)									
Blank (B4L0640-BLK1) - Continued				Prepared: 12/23/2014 Analyzed: 12/23/2014					
bis(2-ethylhexyl)phthalate	ND	330			NR				
Butylbenzylphthalate	ND	330			NR				
Chrysene	ND	330			NR				
Di-n-butylphthalate	ND	330			NR				
Di-n-octylphthalate	ND	330			NR				
Dibenz(a,h)anthracene	ND	330			NR				
Dibenzofuran	ND	330			NR				
Diethyl phthalate	ND	330			NR				
Dimethyl phthalate	ND	330			NR				
Fluoranthene	ND	330			NR				
Fluorene	ND	330			NR				
Hexachlorobenzene	ND	330			NR				
Hexachlorobutadiene	ND	660			NR				
Hexachlorocyclopentadiene	ND	660			NR				
Hexachloroethane	ND	330			NR				
Indeno(1,2,3-cd)pyrene	ND	330			NR				
Isophorone	ND	330			NR				
N-Nitroso-di-n propylamine	ND	330			NR				
N-Nitrosodiphenylamine	ND	330			NR				
Naphthalene	ND	330			NR				
Nitrobenzene	ND	330			NR				
Pentachlorophenol	ND	1600			NR				
Phenanthrene	ND	330			NR				
Phenol	ND	330			NR				
Pyrene	ND	330			NR				
Pyridine	ND	1600			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*2282*		*3333.33*		*68.5*	*46 - 103*			
Surrogate: 2,4,6-Tribromophenol	*2552*		*3333.33*		*76.6*	*45 - 140*			
Surrogate: 2-Chlorophenol-d4	*2655*		*3333.33*		*79.7*	*49 - 108*			
Surrogate: 2-Fluorobiphenyl	*2453*		*3333.33*		*73.6*	*51 - 113*			
Surrogate: 2-Fluorophenol	*2605*		*3333.33*		*78.2*	*39 - 113*			
Surrogate: 4-Terphenyl-d14	*2830*		*3333.33*		*84.9*	*59 - 133*			
Surrogate: Nitrobenzene-d5	*2483*		*3333.33*		*74.5*	*43 - 118*			
Surrogate: Phenol-d5	*2537*		*3333.33*		*76.1*	*43 - 114*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0640 - MSSEMI_S (continued)									
LCS (B4L0640-BS1)				Prepared: 12/23/2014 Analyzed: 12/23/2014					
1,2,4-Trichlorobenzene	2742.33	330	3333.33		82.3	61 - 114			
1,4-Dichlorobenzene	2442.33	330	3333.33		73.3	61 - 102			
2,4-Dinitrotoluene	3482.00	330	3333.33		104	83 - 129			
2-Chlorophenol	2506.00	330	3333.33		75.2	63 - 108			
4-Chloro-3-methylphenol	2663.00	660	3333.33		79.9	72 - 131			
4-Nitrophenol	2534.00	330	3333.33		76.0	64 - 144			
Acenaphthene	2777.00	330	3333.33		83.3	72 - 120			
N-Nitroso-di-n propylamine	2438.33	330	3333.33		73.2	59 - 130			
Pentachlorophenol	2668.00	1600	3333.33		80.0	63 - 126			
Phenol	2516.67	330	3333.33		75.5	63 - 116			
Pyrene	2821.00	330	3333.33		84.6	74 - 128			
Surrogate: 1,2-Dichlorobenzene-d4	*2128*		*3333.33*		*63.8*	*46 - 103*			
Surrogate: 2,4,6-Tribromophenol	*2643*		*3333.33*		*79.3*	*45 - 140*			
Surrogate: 2-Chlorophenol-d4	*2507*		*3333.33*		*75.2*	*49 - 108*			
Surrogate: 2-Fluorobiphenyl	*2321*		*3333.33*		*69.6*	*51 - 113*			
Surrogate: 2-Fluorophenol	*2389*		*3333.33*		*71.7*	*39 - 113*			
Surrogate: 4-Terphenyl-d14	*2585*		*3333.33*		*77.5*	*59 - 133*			
Surrogate: Nitrobenzene-d5	*2530*		*3333.33*		*75.9*	*43 - 118*			
Surrogate: Phenol-d5	*2386*		*3333.33*		*71.6*	*43 - 114*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0640 - MSSEMI_S (continued)									
Duplicate (B4L0640-DUP1)		**Source: 1404056-02**		Prepared: 12/23/2014 Analyzed: 12/27/2014					
1,2,4-Trichlorobenzene	ND	330		ND	NR			20	
1,4-Dichlorobenzene	ND	330		ND	NR			20	
2,4-Dinitrotoluene	ND	330		ND	NR			20	
2-Chlorophenol	ND	330		ND	NR			20	
4-Chloro-3-methylphenol	ND	660		ND	NR			20	
4-Nitrophenol	ND	330		ND	NR			20	
Acenaphthene	ND	330		ND	NR			20	
N-Nitroso-di-n propylamine	ND	330		ND	NR			20	
Pentachlorophenol	ND	1600		ND	NR			20	
Phenol	ND	330		ND	NR			20	
Pyrene	ND	330		ND	NR			20	
Surrogate: 1,2-Dichlorobenzene-d4	*2171*		*3333.33*		*65.1*	*46 - 103*			
Surrogate: 2,4,6-Tribromophenol	*2600*		*3333.33*		*78.0*	*45 - 140*			
Surrogate: 2-Chlorophenol-d4	*2477*		*3333.33*		*74.3*	*49 - 108*			
Surrogate: 2-Fluorobiphenyl	*2346*		*3333.33*		*70.4*	*51 - 113*			
Surrogate: 2-Fluorophenol	*2405*		*3333.33*		*72.1*	*39 - 113*			
Surrogate: 4-Terphenyl-d14	*2839*		*3333.33*		*85.2*	*59 - 133*			
Surrogate: Nitrobenzene-d5	*2228*		*3333.33*		*66.8*	*43 - 118*			
Surrogate: Phenol-d5	*2401*		*3333.33*		*72.0*	*43 - 114*			

Certificate of Analysis

Geocon Consultants, Inc.	Project Number : SR70 & 5th St UST, S9805-01-45
3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0640 - MSSEMI_S (continued)									
Matrix Spike (B4L0640-MS1)		**Source: 1404077-03**		Prepared: 12/23/2014 Analyzed: 12/23/2014					
1,2,4-Trichlorobenzene	2280.00	3300	3333.33	ND	68.4	35 - 127			D1
1,4-Dichlorobenzene	1990.00	3300	3333.33	ND	59.7	34 - 119			D1
2,4-Dinitrotoluene	6146.67	3300	3333.33	ND	184	36 - 157			D1, M2, M7
2-Chlorophenol	1963.33	3300	3333.33	ND	58.9	31 - 129			D1
4-Chloro-3-methylphenol	1970.00	6600	3333.33	ND	59.1	36 - 156			D1
4-Nitrophenol	4070.00	3300	3333.33	ND	122	40 - 158			D1
Acenaphthene	2326.67	3300	3333.33	ND	69.8	41 - 141			D1
N-Nitroso-di-n propylamine	1863.33	3300	3333.33	ND	55.9	33 - 141			D1
Pentachlorophenol	4450.00	16000	3333.33	ND	134	27 - 145			D1
Phenol	2040.00	3300	3333.33	ND	61.2	32 - 134			D1
Pyrene	2293.33	3300	3333.33	ND	68.8	39 - 156			D1
Surrogate: 1,2-Dichlorobenzene-d4	*1723*		*3333.33*		*51.7*	*46 - 103*			
Surrogate: 2,4,6-Tribromophenol	*3623*		*3333.33*		*109*	*45 - 140*			
Surrogate: 2-Chlorophenol-d4	*1823*		*3333.33*		*54.7*	*49 - 108*			
Surrogate: 2-Fluorobiphenyl	*2013*		*3333.33*		*60.4*	*51 - 113*			
Surrogate: 2-Fluorophenol	*1700*		*3333.33*		*51.0*	*39 - 113*			
Surrogate: 4-Terphenyl-d14	*2117*		*3333.33*		*63.5*	*59 - 133*			
Surrogate: Nitrobenzene-d5	*2033*		*3333.33*		*61.0*	*43 - 118*			
Surrogate: Phenol-d5	*1777*		*3333.33*		*53.3*	*43 - 114*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4L0640 - MSSEMI_S (continued)									
Matrix Spike Dup (B4L0640-MSD1)		**Source: 1404077-03**		Prepared: 12/23/2014 Analyzed: 12/23/2014					
1,2,4-Trichlorobenzene	2553.33	3300	3333.33	ND	76.6	35 - 127	11.3	20	D1
1,4-Dichlorobenzene	2220.00	3300	3333.33	ND	66.6	34 - 119	10.9	20	D1
2,4-Dinitrotoluene	6226.67	3300	3333.33	ND	187	36 - 157	1.29	20	D1, M2, M7
2-Chlorophenol	2206.67	3300	3333.33	ND	66.2	31 - 129	11.7	20	D1
4-Chloro-3-methylphenol	2056.67	6600	3333.33	ND	61.7	36 - 156	4.30	20	D1
4-Nitrophenol	4213.33	3300	3333.33	ND	126	40 - 158	3.46	20	D1
Acenaphthene	2423.33	3300	3333.33	ND	72.7	41 - 141	4.07	20	D1
N-Nitroso-di-n propylamine	2170.00	3300	3333.33	ND	65.1	33 - 141	15.2	20	D1
Pentachlorophenol	4566.67	16000	3333.33	ND	137	27 - 145	2.59	20	D1
Phenol	2236.67	3300	3333.33	ND	67.1	32 - 134	9.20	20	D1
Pyrene	2456.67	3300	3333.33	ND	73.7	39 - 156	6.88	20	D1
Surrogate: 1,2-Dichlorobenzene-d4	*1977*		*3333.33*		*59.3*	*46 - 103*			
Surrogate: 2,4,6-Tribromophenol	*3790*		*3333.33*		*114*	*45 - 140*			
Surrogate: 2-Chlorophenol-d4	*2030*		*3333.33*		*60.9*	*49 - 108*			
Surrogate: 2-Fluorobiphenyl	*2140*		*3333.33*		*64.2*	*51 - 113*			
Surrogate: 2-Fluorophenol	*1967*		*3333.33*		*59.0*	*39 - 113*			
Surrogate: 4-Terphenyl-d14	*2320*		*3333.33*		*69.6*	*59 - 133*			
Surrogate: Nitrobenzene-d5	*2343*		*3333.33*		*70.3*	*43 - 118*			
Surrogate: Phenol-d5	*2003*		*3333.33*		*60.1*	*43 - 114*			

Certificate of Analysis

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3160 Gold Valley Drive, Suite 800	Report To : John Juhrend
Rancho Cordova , CA 95742	Reported : 12/30/2014

Notes and Definitions

S7	Surrogate recovery was outside of laboratory acceptance limit. Chromatogram shows high concentration of heavy hydrocarbons.
S4	Surrogate was diluted out.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M7	Matrix spike was high biased. Sample result/s was non-detect (ND) for the target analyte; therefore reanalysis was not necessary.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
D2	Sample required dilution due to high concentration of non-target analyte.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 2

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐Client ☐ATL	1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
☐FedEx ☑OnTrac	2. HEADSPACE (VOA)	N/A	☐	6. PRESERVED	☐	☐
☐GSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C: 2.2		
☐Other:	4. SEALED	☐	☑			

CUSTOMER

Company: Geocon Consultants
Address: 3160 Gold Valley Drive Suite 800
Tel: (916) 852-9118
City: Rancho Cordova State: CA Zip: 95742 Fax: (916) 852-9132

SEND REPORT TO:
Attn: John Juhrend Email: Juhrend@geoconinc.com
Company:
Address:
City: State: Zip:

SEND INVOICE TO: ☒same as SEND REPORT TO
Attn: Email:
Company:
Address:
City: State: Zip:

PROJECT SAMPLES

Project Name: SR70 & 5th St UST
Project No.: S9805-01-45
Sampler: Josh Ewert
Quote #:
PO #:
Special Instructions/Comments: Billing per Caltrans contract #03A2132

Encircle or Write Requested Analysis: 6010 / 7000 (Title 22 Metals); 8015 (DRO)/ORO; 8015 (GRO); 8081 (Organochlorine Pesticides); 8082 (PCBs); 8260 / 624 (Volatiles); 8270 (Semi-volatiles); ~~Select Analysis~~ GRO Pkg; Enter Custom Analysis (×10)

Encircle Sample Matrix: Select Soil Matrix; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

Container: TAT; # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister; Material: 1=Glass; 2=Plastic; 3=Metal; Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐Routine ☒Caltrans ☐Legal ☐RWQCB ☐Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	6010/7000	8015 (DRO)/ORO	8015 (GRO)	8081	8082	8260/624	8270	GRO Pkg	Soil	Solid	Water	Wastewater	Aqueous	Custom Matrix	TAT	#	Type	Material	Preservative	REMARKS
1	1404056 -1	B1-4.5	12/17/14	0915	X	X						X	X						5	1	1	2	4	
2	-2	B1-7.5		1015							X	X												
3	-3	B1-11.5		1030		X						X												
4	-4	B1-15.5		1045								X												
5	-5	B1-19.5		1105		X						X												
6	-6	B2-4.5		0950		X						X												
7	-7	B2-7.5		1130		X					X	X												
8	-8	B2-11.5		1145								X												
9	-9	B2-14.5		1219		X						X												
10	-10	B5-3.5	↓	1115															↓	↓	↓	↓	↓	Hold

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work --- ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformatted report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Josh Ewert
Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Josh Ewert	12/18/14	1630	ONTRAC	12/19/14	1630
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

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☐SSO	3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:	2.2	
☐Other:	4. SEALED	☐	☑			

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Encircle Sample Matrix: Select Soil Matrix; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix
TAT
Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Fedar; 7=Canister | Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3
QA/QC: ☐Routine ☑Caltrans ☐Legal ☐RWQCB ☐Level IV
REMARKS

ITEM	Lab No.	Sample ID / Location	Date	Time	6010	8015 (DRO)	8015 (GRO)	8081	8082	8260	8270	Select Analysis	Custom	Soil	Solid	Water	Wastewater	Aqueous	Custom Matrix	TAT	#	Type	Material	Preservative	REMARKS
1	1404053-11	BC-4.5	12/12/14	1350	X							X		X						5	1	1	2	4	
2	-12	BC-6		1355		X					X	X													
3	-13	BC-7.5		1400		X						X													
4	-14	BC-11.5		1410								X													
5	-15	BC-14.5		1425		X					X	X													
6	-16	B7-6		1445		X						X													
7	-17	B7-7.5		1450								X													
8	-18	B7-11.5		1500		X						X													
9	-19	B7-14.5		1515		X						X													
10	-20	B9-4.5	↓	1600																↓	↓	↓	↓	↓	Hold

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Submitter Print Name — Signature

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JOSH EWERT	12/12/14	1630	ENTRUE	12/12/14	1630
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date: 12/13/14	Time: 0915
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time: