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By Alameda County Environmental Health 10:50 am, Aug 16, 201

To: Mr. Robert Schultz, Case Worker
Alameda County Environmental Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
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Re: Acknowledgement Statement
1st Quarter 2017 Groundwater Monitoring and System Evaluation Report
Bill Chun Service Station
2301 Santa Clara Avenue
Alameda, California 94501
SLIC # RO0382
Geotracker Global ID # T0600100980

“I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH’s FTP server and the SWRCB’s GeoTracker website.”

Carolyn C. Fong, Trustee

Carolyn C. Fong, Trustee
Claimant: Lily Angela Chun 1991 Living Trust
711 E. Hermosa Drive
San Gabriel, California 91775

**1ST QUARTER 2017 GROUNDWATER MONITORING,
AND SYSTEM EVALUATION REPORT
BILL CHUN SERVICE STATION
2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA
FUEL LEAK CASE # RO0000382
GEOTRACKER GLOBAL ID # T0600100980**

PREPARED FOR:
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July 31, 2017
Project No. 401896004

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Ms. Carolyn C. Fong
Trustee, Lily A. Chun 1991 Trust
720 East Hermosa Drive
San Gabriel, California 91775

Subject: 1st Quarter 2017 Groundwater Monitoring and System
Evaluation Report
2301 Santa Clara Avenue
Alameda, California
Fuel Leak Case # RO0000382
GeoTracker Global ID # T0600100980

Dear Ms. Fong:

Ninyo & Moore is pleased to present this 1st Quarter 2017 Groundwater Monitoring and System Evaluation Report for the above-referenced site. This report discusses the results and presents conclusions and recommendations of our groundwater monitoring activities, and provides details of the groundwater remediation system operations and maintenance. We appreciate the opportunity to be of service to you on this project.

Sincerely,

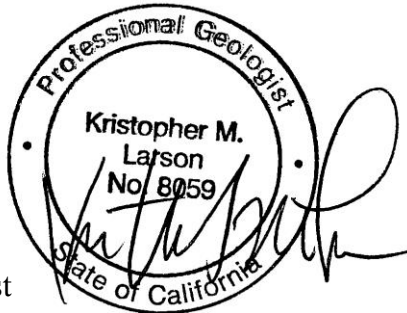


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TABLE OF CONTENTS

	<u>Page</u>
1. INTRODUCTION	1
1.1. Purpose	1
1.2. Site Description	1
1.3. Site Background.....	1
2. HISTORICAL CONSTITUENT OF CONCERN CONCENTRATIONS IN GROUNDWATER	2
3. REMEDIATION SYSTEM OPERATIONS AND MAINTENANCE.....	2
3.1. Biweekly O&M	3
3.2. Monthly O&M.....	3
3.2.1. Remediation System Sample Collection.....	3
3.2.2. Remediation System Sample Analysis	3
3.2.3. Remediation System Sample Analytical Results	4
3.3. Bag Filter Change Out, GAC Vessel Change Out, and Remediation System Maintenance.....	4
4. GROUNDWATER MONITORING	5
4.1. Depth to Groundwater Measurement.....	5
4.2. Groundwater Sampling	5
4.3. Decontamination Procedures	6
4.4. Investigation Derived Waste.....	6
4.5. Laboratory Analysis.....	6
5. GROUNDWATER SAMPLING RESULTS	7
5.1. Depth to Groundwater and Groundwater Flow Direction	7
5.2. Groundwater Sample Laboratory Results.....	8
5.2.1. Total Petroleum Hydrocarbons as Gasoline in Groundwater	8
5.2.2. Benzene in Groundwater.....	9
5.2.3. Other VOCs in Groundwater	9
5.2.4. Bioattenuation Parameters	10
5.2.4.1. Oxidation Reduction Potential	10
5.2.4.2. Dissolved Oxygen	11
5.2.4.3. Nitrate.....	11
5.2.4.4. Ferric Iron.....	12
5.2.4.5. Manganese, Sulfate, and Methane	12
5.2.4.6. Bioattenuation Summary.....	12
6. QUALITY ASSURANCE/QUALITY CONTROL	13
6.1. Laboratory QA/QC Samples.....	13
6.2. Sample Dilutions	14
6.3. QA/QC Conclusions	14
7. REMEDIAL ACTION OBJECTIVES	14
7.1. Low-Threat Closure.....	15

8. CONCLUSIONS	16
9. RECOMMENDATIONS.....	17
10. LIMITATIONS.....	17
11. REFERENCES	19

Tables

Table 1 – Monitoring Well Inventory
Table 2 – Remediation System Operations & Maintenance Summary
Table 3 – Groundwater Elevation Data
Table 4 – Summary of Groundwater Sample Analytical Results – TPHg and VOCs
Table 5 – Bioattenuation Monitoring

Graphs

Graph 1 – TPHg Concentrations in Groundwater
Graph 2 – Benzene Concentrations in Groundwater

Figures

Figure 1 – Site Location
Figure 2 – Site Vicinity
Figure 3 – Site Plan
Figure 4 – Remediation System Plan
Figure 5 – Remediation System Schematic
Figure 6 – Groundwater Elevation Contour
Figure 7 – Total Petroleum Hydrocarbons as Gasoline Concentrations in Groundwater
Figure 8 – Benzene Concentrations in Groundwater
Figure 9 – Naphthalene Concentrations in Groundwater

Appendices

Appendix A – Historical Constituents of Concern Concentrations
Appendix B – Operations & Maintenance Field Forms
Appendix C – Laboratory Analytical Reports
Appendix D – Groundwater Monitoring Data Sheets

1. INTRODUCTION

Ninyo & Moore has conducted groundwater monitoring and remediation system operations and maintenance (O&M) activities at the Bill Chun Service Station property located at 2301 Santa Clara Avenue in Alameda, California (site). These activities were performed to address the site's subsurface petroleum hydrocarbon impact. This 1st Quarter 2017 Groundwater Monitoring and System Evaluation Report was prepared in general accordance with the proposed methodology presented in the Corrective Action Plan (CAP) dated August 1, 2013 (Ninyo & Moore, 2013a). The CAP was approved in the Alameda County Environmental Health (ACEH) directive letter dated March 17, 2014.

1.1. Purpose

The purpose of this report is to document the field activities performed during the 1st Quarter 2017 relating to the site's remediation system O&M and groundwater monitoring. This report presents the findings of the groundwater sample analysis for site contaminants of concern (COCs), which primarily include total petroleum hydrocarbons as gasoline (TPHg) and benzene. This report also discusses the COC groundwater plumes and bioattenuation parameter trends.

1.2. Site Description

The site is located at 2301 Santa Clara Avenue in the City and County of Alameda, California, as presented on Figure 1. The rectangular lot measures approximately 85 feet long by 40 feet wide. The site is occupied by a small vacant kiosk, a canopy, and a garage. The site is located in a mostly commercial area with some residential buildings, and is bordered by Oak Street to the northwest, a meeting hall and residences to the northeast and east, a retail store to the southeast (formerly Towata Flowers), and by Santa Clara Avenue to the southwest. The site vicinity is presented on Figure 2, with the site plan and adjacent properties presented on Figure 3.

1.3. Site Background

The site is a former gasoline service station, and has been the subject of subsurface assessments, remedial actions, groundwater monitoring, and closure petitions since 1993, when three underground storage tanks (USTs) were removed. The site is listed as a Leaking Underground Storage Tank (LUST) facility in the State Water Resources Control Board

(SWRCB) GeoTracker database and as a Leaking Underground Fuel Tank (LUFT) and Spills, Leaks, Investigation and Cleanup (SLIC) facility in the ACEH database.

Several groundwater monitoring wells were installed on the site in separate occasions during 1993 and 2005. All wells installed in 1993 were either properly abandoned or redeveloped in 2012 for monitoring purposes. Injection wells were installed in 2002, 2004, and 2014, with all 2004 and one 2002 well redeveloped in 2014. The remaining 2002 wells were abandoned. Extraction wells were installed in 2014. An inventory of all of the site's wells is presented in Table 1. Between October and November 2014, the remediation system was installed at the site (Figures 3, 4, and 5). The remediation system began operating on November 21, 2014.

2. HISTORICAL CONSTITUENT OF CONCERN CONCENTRATIONS IN GROUNDWATER

In a directive letter dated September 8, 2011, ACEH requested historical groundwater concentrations in each well be presented in a clear and concise manner. As part of the June 2012 *Well Installation and Groundwater Sampling Report*, Ninyo & Moore obtained historical data from reports found in the online GeoTracker database. Appendix A provides historical groundwater concentrations presented in separate tables for each well through 2011. Groundwater elevation data and groundwater concentrations as of the 2nd quarter 2015 are presented in Tables 2 and 3.

3. REMEDIATION SYSTEM OPERATIONS AND MAINTENANCE

O&M activities conducted on the site's remediation system include, both, biweekly and monthly events, which for the 1st Quarter 2017 were performed by Ninyo & Moore from January 4, 2017 through March 28, 2017. Remediation system O&M field forms are provided in Appendix B. O&M sampling laboratory analytical reports are provided in Appendix C. Remediation system flow meter readings are presented in Table 2. The analytical laboratory results for the O&M samples collected from the remediation system are presented in Table 4.

3.1. Biweekly O&M

During each biweekly O&M event, the remediation system was checked for proper operation. Pressure gauge and flow meter readings were recorded on field forms. 50 pounds of Custom Blend Nutrient (CBN) nutrient mix were added to the mixing tank during each biweekly O&M event. Ninyo & Moore continues to add CBN nutrient mix to the mixing tank in order to enhance the bioattenuation process.

3.2. Monthly O&M

On January 4, February 1, March 3 and March 29, 2017, in addition to the tasks described in Section 3.1, monthly O&M activities included collection of water samples from the remediation system. Influent (INF), GAC vessel (GAC), and effluent (EFF) samples were collected from the remediation system at the sample ports shown on Figure 5. The INF sample was collected from the sample port after the bag filter assembly to determine the cumulative concentrations of COCs in water entering the remediation system. The GAC sample was collected from the sample port between the lead and lag GAC vessels to evaluate whether breakthrough of COCs occurred in the lead GAC vessel. The EFF sample was collected from the sample port after the lag GAC vessel to evaluate breakthrough of COCs in the lag GAC vessel.

3.2.1. Remediation System Sample Collection

Samples collected from the remediation system sample ports were transferred directly into the appropriate laboratory supplied containers, labeled with the location ID, covered with bubble wrap for protection, placed into a cooler containing ice, and transported under chain-of-custody documentation to TestAmerica, a State of California Environmental Laboratory Accreditation Program (ELAP) certified analytical laboratory located in Pleasanton, California.

3.2.2. Remediation System Sample Analysis

Remediation system samples were analyzed by TestAmerica for TPHg and volatile organic compounds (VOCs), which include benzene, using United States Environmental Protection Agency (USEPA) Method 8260B.

3.2.3. Remediation System Sample Analytical Results

The analytical results for remediation system samples are presented in Table 4. Concentrations of TPHg and benzene in samples collected at INF increased in January, February, and early March then decreased in late March. The increasing trends are likely caused by mobilization of the contaminated groundwater plume toward the extraction wells. The increased concentrations of contaminants in groundwater move through the subsurface where they are treated by bioattenuation and are eventually captured by the remediation system through the extraction wells.

GAC samples collected in January and February 2017 indicated an increase in TPHg and VOC concentrations, with an increase observed in TPHg and VOC concentrations from January to February. The increase in TPHg and VOC concentrations indicated that the lead GAC vessel was spent; however, because neither TPHg nor VOCS were detected in the EFF samples, the lag GAC vessel was effective in treating the effluent water resulting in no detectable concentrations of site COCs. Due to the breakthrough in the lead vessel, replacement of the GAC in the lead vessel was necessary and is discussed below. TPHg and VOCs were not reported in the two March 2017 remediation system sampling events succeeding the GAC replacements.

3.3. Bag Filter Change Out, GAC Vessel Change Out, and Remediation System Maintenance

The remediation system's bag filters were replaced on January 2, January 25, February 6, February 13, March 1, March 12, and March 20, 2017, due to elevated pressure readings. During these replacements, a yellowish-brown bacterial slime was observed in the bag filters, which is evidence of biofouling. The slimy consistency is attributed to bacterial growth and the reddish brown color signifies ferric iron precipitate. Biofouling in the bag filters is expected and indicates the remediation system is operating properly by encouraging bacterial growth. The used bag filters are securely stored in the site's garage pending proper waste characterization and offsite disposal.

On February 16, 2017, the spent GAC in the lead vessel was replaced with clean GAC. The spent GAC was profiled and transported under manifest to Altamont Landfill in Livermore, California. Waste disposal documentation has been retained in the project file and is available upon request.

4. GROUNDWATER MONITORING

Ninyo & Moore conducted the 1st Quarter 2017 groundwater monitoring event on March 2nd and 3rd, 2017. The following wells were included in the groundwater monitoring program: MW-4R, MW-5R, MW-6R, MW-7R, MW-8, MW-9, MW-10, MW-11R, MW-12, MW-13, MW-14, MW-15, and MW-16.

4.1. Depth to Groundwater Measurement

Prior to groundwater sampling, depth-to-groundwater measurements were obtained from each well. In order to allow the groundwater level to reach equilibrium, the well caps were removed approximately 20 minutes prior to measurement. The depth to static groundwater was measured from the top of casing using a water level meter accurate to 0.01 feet. The water-level meter was decontaminated between wells. The remediation system continued operating during collection of depth to groundwater measurements. Therefore, shallow groundwater elevation contours illustrated on Figure 6 show the influence the remediation system is exerting on groundwater gradients at the site and its surrounding vicinity.

4.2. Groundwater Sampling

Prior to sample collection, a minimum of three casing volumes of groundwater were purged from each monitoring well using a peristaltic pump or disposable bailer. Dedicated pump tubing and/or new disposable bailers were used in each well to minimize the likelihood of cross contamination between wells. Groundwater parameters (pH, temperature, electrical conductivity, dissolved oxygen, and oxidation-reduction potential) and physical characteristics (odor and color) were recorded during purging. Copies of the groundwater sampling field data sheets are provided in Appendix D.

Subsequent to purging, groundwater samples were collected from each well using a peristaltic pump or disposable bailer. During sample collection, the pump was operated at low speed to minimize disturbance of groundwater. The groundwater samples were collected in the appropriate laboratory-provided sample containers, labeled with the well ID, covered with bubble wrap for protection, placed into a cooler containing ice, and transported under chain-of-custody documentation to TestAmerica.

4.3. Decontamination Procedures

Reusable equipment that came into contact with groundwater was decontaminated to assure the quality of samples collected and reduce potential cross contamination. Dedicated pump tubing or new disposable bailers were employed at each well during purging to prevent cross contamination. Disposable equipment intended for one-time use and disposal was not decontaminated. Decontamination occurred prior to and after each use of a piece of reusable equipment which came in contact with groundwater. Decontamination was performed using a triple rinse consisting of an initial rinse with a non-phosphate based detergent solution, a secondary rinse in distilled water, and a final rinse in distilled water. Nitrile gloves were changed between each sample collection to minimize the likelihood of cross contamination.

4.4. Investigation Derived Waste

Investigation-derived waste (IDW) consisting of purged groundwater and decontamination rinsate water was stored in properly labeled 55-gallon steel drums, which were left in a secure location on the site. Following waste profiling, the 55-gallon drums of IDW are transported by a California licensed waste hauler to an appropriate facility for disposal as non-hazardous waste. Copies of the waste disposal documentation are maintained in the project files. Disposable equipment intended for one time use (nitrile gloves, bailers, etc.) were disposed of as municipal waste.

4.5. Laboratory Analysis

The groundwater samples collected from each well were analyzed by TestAmerica for:

- TPHg by USEPA Method 8021;

- VOCs by USEPA Method 8260B;
- Ferrous iron by Standard Method (SM) 3500-Fe D;
- Iron by USEPA Method 200.7;
- Nitrate, nitrite, phosphate, and sulfate by USEPA Method 300.0; and
- Nitrogen as ammonia by SM 4500-NH3 D.

5. GROUNDWATER SAMPLING RESULTS

The following section summarizes the results of the 1st Quarter 2017 Groundwater Monitoring event, and presents a discussion of the groundwater monitoring trends. Groundwater elevation contours are illustrated on Figure 6, and detected concentrations of TPHg and benzene are illustrated on Figures 7 and 8, respectively. Groundwater elevation data is summarized in Table 3, and groundwater sample analytical results are presented in Table 4 and Table 5. Trends in TPHg concentrations in groundwater for select wells are presented on Graph 1. Trends in benzene concentrations in groundwater for select wells are presented on Graph 2.

5.1. Depth to Groundwater and Groundwater Flow Direction

The groundwater level measurements and the calculated groundwater elevations are presented in Table 3. Groundwater elevation contours are shown on Figure 6. Based on the contours shown on Figure 6, the groundwater gradient appears to be strongly influenced by the operation of the remediation system. Groundwater elevation has been, historically, highest at MW-7R since the remediation system began operation. However, in the 1st Quarter 2017 Groundwater Monitoring event, groundwater was highest at MW-6R. The high groundwater elevations on the site are due to several factors including the increase in precipitation events this quarter, and the injection of amended water into the subsurface via the horizontal injection piping (injection piping IN-1 through IN-3) and vertical extraction wells (extraction wells EW-14 through EW-19). The groundwater elevation gradient slopes downward most steeply to the east-northeast towards extraction wells EW-21 and EW-22, demonstrating the effect of the remediation system influencing and controlling groundwater flow beneath the site.

5.2. Groundwater Sample Laboratory Results

A summary of the groundwater sample analytical results are presented in Tables 4 and 5, and a copy of the certified TestAmerica analytical laboratory report is provided in Appendix C. The laboratory results are compared against the San Francisco Bay Regional Water Quality Control Board (RWQCB) Table GW-3 Groundwater Vapor Intrusion Human Health Risk Screening Levels (Volatile Chemicals Only) or Environmental Screening Levels (ESLs), dated February 2016 (Revision 3)¹. As discussed in Section 7, the remedial action objectives are to meet the criteria established in the SWRCB *Low-Threat Underground Storage Tank Case Closure Policy*, adopted May 1, 2012.

5.2.1. Total Petroleum Hydrocarbons as Gasoline in Groundwater

Concentrations of TPHg in shallow groundwater are presented on Figure 7. The ESL for TPHg is no longer established. TPHg was not detected above the laboratory reporting limit of 50 µg/L in wells MW-9, MW-10, MW-13, MW-15, and MW-16. TPHg was reported at concentrations ranging from not detected above the laboratory reporting limit to 57,000 µg/L (well MW-7R).

Trends in TPHg concentrations in groundwater samples collected from wells MW-4R, MW-5R, MW-6R, MW-7R, MW-11R, MW-12 and MW-14 are presented on Graph 1, and are discussed below:

- The TPHg concentration in the groundwater samples collected from wells MW-6R, MW-7R and MW-14 have increased since the 4th Quarter 2016 (previous) monitoring event. MW-7R lies in the center of the contaminated groundwater plume and is indicative of an increased mass of contamination migrating toward the extraction wells. The increase of TPHg concentrations in the groundwater samples collected from wells MW-6R and MW-14, which are cross-gradient relative to the groundwater flow direction induced by the remediation system, are likely due to variability in the width of the contaminated groundwater plume.

¹ Previous groundwater monitoring results were compared against earlier versions of the ESLs. The tables have been updated to reflect the most current screening levels.

- TPHg concentrations in groundwater samples collected from wells MW-4R, MW-5R, MW-8, MW-11R and MW-12 have decreased since the previous monitoring event. Decreases in TPHg concentration in these wells indicates that progress is being made in reducing the overall size of the plume.

5.2.2. Benzene in Groundwater

Benzene concentrations in shallow groundwater are presented on Figure 8. The ESL for benzene is 1.0 µg/L. Benzene was not detected above the laboratory reporting limit in wells MW-6R, MW-9, MW-10, MW-13, MW-15, and MW-16. Benzene was reported at concentrations ranging from not detected above the laboratory reporting limit to 1,100 µg/L (well MW-12).

Trends in benzene concentrations in groundwater samples collected from wells MW-4R, MW-5R, MW-6R, MW-7R, MW-11R, MW-12 and MW-14 are presented on Graph 2, and are discussed below:

- Benzene concentrations in groundwater samples collected from wells MW-4R, MW-5R, MW-8, MW-11 and MW-12 have decreased since the previous monitoring event. The decrease in concentration since the last quarter at these monitoring wells indicates that the remediation system is successfully treating the plume.
- Benzene concentrations in groundwater samples collected from wells MW-7R, and MW-14 have increased since the previous monitoring event. MW-7R lies in the center of the contaminated groundwater plume; increases in TPHg concentrations in this well are indicative that an increased mass of contamination is moving toward the extraction wells.

5.2.3. Other VOCs in Groundwater

Other VOCs detected in the groundwater samples at concentrations which exceeded their respective ESLs included ethylbenzene, naphthalene, toluene and total xylenes, which is further described below.

- The concentrations of ethylbenzene reported ranged from not detected above the laboratory reporting limit to 870 µg/L in MW-7R.

- The concentrations of naphthalene reported ranged from not detected above the laboratory reporting limit to 550 µg/L in MW-7R.
- The concentrations of toluene reported ranged from not detected above the laboratory reporting limit to 5,800 µg/L in MW-7R.
- The concentrations of total xylenes reported ranged from not detected above the laboratory reporting limit to 15,000 µg/L in MW-7R.

5.2.4. Bioattenuation Parameters

Groundwater samples were submitted for laboratory analysis of iron, nitrate, nitrite, phosphate, sulfate, ferrous iron, and nitrogen as ammonia. Groundwater temperature, conductivity, pH, oxidation-reduction potential (ORP), and dissolved oxygen (DO) were measured in the field using a hand-held Horriba U-53 field meter.

The bioattenuation process remediating the site's groundwater plume can occur in either aerobic or anaerobic conditions, which is generally indicated by positive or negative ORP values, respectively. Aerobic bioattenuation takes place as aerobic respiration and is evaluated by DO concentrations. Anaerobic bioattenuation takes place as anaerobic respiration and occurs in five typical stages: denitrification, manganese reduction, ferric iron reduction, sulfate reduction, and methanogenesis.

5.2.4.1. Oxidation Reduction Potential

ORP is a measure of electron activity and is an indicator of the relative tendency of a solute species to gain or lose electrons. ORP values in groundwater generally range from -400 millivolts (mV) to 800 mV (USEPA, 2004). Positive ORP values in groundwater are generally indicative of aerobic reducing conditions and negative ORP values are generally indicative of anaerobic reducing conditions. ORP values recorded during the 1st Quarter 2017 monitoring event ranged from -72.0 mV to 186.0 mV. Since the remediation system startup, ORP values have overall remained positive or trended toward more positive values. Since the previous quarter ORP values in all monitoring wells have increased with the exception of 2 of the 13 wells (MW-7 and MW-9).

5.2.4.2. Dissolved Oxygen

DO is the most thermodynamically favored electron acceptor in the bioattenuation of petroleum hydrocarbons. Because water monitored for DO is easily oxygenated, it is difficult to accurately quantify DO. Therefore, individual DO concentrations are evaluated relative to the range of DO concentrations recorded during a groundwater monitoring event (USEPA, 2004). DO concentrations recorded during the 1st quarter 2017 monitoring event ranged from 1.56 milligrams per liter (mg/L) to 8.53 mg/L. Levels of DO are lower than the previous quarter, but much higher than the 2nd and 3rd quarter of 2016. Overall, dissolved oxygen conditions this quarter are favorable to aerobic respiration and reduction of petroleum hydrocarbons.

5.2.4.3. Nitrate

Nitrate can be consumed during the anaerobic biodegradation of petroleum hydrocarbons after DO has been depleted in groundwater. In this process, called denitrification, nitrate is reduced to nitrite and ultimately nitrogen gas (USEPA, 2004). Biweekly addition of the CBN to the amended water injected into the subsurface had increased the concentration of nitrate in groundwater from background levels since the June 25 and 26, 2014 monitoring event conducted prior to remediation system startup.

Nitrite² concentrations have increased greatly relative to the previous monitoring event in monitoring wells MW-4R, MW-5; increased slightly in monitoring wells MW-6, MW-7, MW-8, MW-11 and MW-14. Nitrogen concentrations in the remaining wells have decreased or remained stable. The increasing nitrate concentrations may be due to the addition of CBN to the groundwater remediation

² Nitrite is generated from nitrate under anaerobic reducing conditions. Given the presence of DO, nitrite generation would not be expected.

system, while reductions of nitrate concentrations may represent microbial utilization.

5.2.4.4. Ferric Iron

Ferric iron can be reduced to ferrous iron after DO and nitrate are depleted in anaerobic reducing conditions in groundwater. Ferrous iron is soluble in water and its presence in groundwater samples is an indication that reduction of ferric iron has occurred (USEPA, 2004). The concentration of ferrous iron reported in wells ranged from non-detect to concentrations of 2.2 mg/l in MW-11R; however ferric iron was not analyzed during this sampling event so no comparisons can be made between the two constituents.

5.2.4.5. Manganese, Sulfate, and Methane

Because neither manganese reduction, sulfate reduction, nor methanogenesis (carbon dioxide reduction) has been demonstrated to be a significant driver of bioattenuation at the site, manganese, sulfate, and methane were not analyzed during the 1st Quarter 2017 event.

5.2.4.6. Bioattenuation Summary

During previous quarters since the remediation system start up, until the 2nd quarter 2016, the monitored wells were trending toward ORP values that remained positive or were trending toward more positive values indicating a gradual shift toward stronger aerobic bioattenuation. An increase in the amount of CBN nutrient mixture and EZT-EA biosurfactant added to the system shifted overall ORP values towards a negative trend from the 2nd quarter of 2016 to the previous (4th quarter 2016) groundwater monitoring event. From the 4th quarter 2016 event to the current (1st quarter 2017) groundwater monitoring event, ORP values returned to positively trending. Monitoring wells MW-4R, MW-5R, MW-8, MW-11 and MW-14 shifted from negative ORP values to positive values this quarter. Only two wells (MW-7 and MW-12) continued to have negative ORP values. This is an indication that the

addition of DO in the amended water supplied to the subsurface by the remediation system has increased ORP. Additionally, wells overall had relatively higher recorded DO levels this quarter. More aerobic conditions now appear to be occurring across the site, and more strongly in the center of the site than the previous quarter. Based on these parameters, continued microbial activity in the subsurface appears to be taking place. During future O&M events, Ninyo & Moore will continue to evaluate the oxygen injection rates and injection pressures of the remediation system with the goal of producing positive ORP values and higher concentrations of DO in all wells in future groundwater monitoring events.

6. QUALITY ASSURANCE/QUALITY CONTROL

Upon collection, groundwater samples were immediately placed on ice for storage during field activities, pending transportation to the laboratory. At the conclusion of the sampling event, the samples were transferred to TestAmerica, a California ELAP certified laboratory, in Pleasanton, California, under the appropriate chain-of-custody documentation.

6.1. Laboratory QA/QC Samples

The laboratory analyses followed the approved methods. Laboratory QA/QC samples included method blanks, laboratory control samples (LCS), matrix spikes (MS), and matrix spike duplicates (MSD).

The laboratory calibration could not constrain upper control limits for dichlorodifluoromethane. Samples MW-10, MW-13, MW-14, and MW-15 were impacted. The laboratory calibration could not constrain upper control limits for nitrite. Samples MW-4R, MW-5R, MW-7R and MW-11, were impacted; sample from MW-9 was reanalyzed outside of the analytical holding time due to the QC failure of nitrate. Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-413303. Method 8260B: The following sample was diluted due to the nature of the sample matrix: MW-12. Elevated RLs are provided. High concentration of target analytes detected.

Method 8260B: The following sample was diluted due to the nature of the sample matrix: MW-12. Elevated RLs are provided. High concentration of target analytes detected. Method 8260B: The following sample was diluted due to the nature of the sample matrix: MW-5R, MW-7R and MW-11. Elevated RLs are provided.

The percentage recoveries were within the specific acceptance limits for these types of samples. Groundwater MS and MSD recoveries were outside of the acceptance limit so the analytical batch was validated by the LCS. Therefore the relevant QA/QC results were satisfactory and acceptable with the exceptions noted.

6.2. Sample Dilutions

Due to the high concentrations of petroleum constituents and/or possible matrix interference in some of the samples, dilution factors ranging from 1 to 50 were required prior to analysis of groundwater samples. Because of the required sample dilution, detection limits were increased.

6.3. QA/QC Conclusions

No outstanding issues were identified during the course of the QA/QC review. Overall, the presented data are reliable and useable for project decision making.

7. REMEDIAL ACTION OBJECTIVES

The ultimate objectives of remedial activities in the plume area are to reduce the concentrations of COCs in soil, soil vapor, indoor air, and groundwater to less than the RWQCB ESLs, and to ensure that the risk to human health and the environment is less than risk thresholds. The immediate objective of the remedial activities is to reduce the concentrations of COCs in groundwater such that the regulatory limits will be achieved through natural attenuation processes within a reasonable time frame and pose a low threat to human health and the environment as specified in the *Low-Threat Underground Storage Tank Case Closure Policy (Low-Threat Closure Policy)*, adopted May 1, 2012, established by the SWRCB.

7.1. Low-Threat Closure

The *Low-Threat Closure Policy* conditions that remain to be met at the time of the preparation of the *CAP*, as well as progress meeting those conditions, are discussed below:

- **Secondary source must be removed to the extent practicable** – Secondary source continues to be removed through operation of the remediation system in order to meet this condition.

Groundwater affected by the unauthorized release, defined as the contaminant plume that exceeds water quality objectives, must be stable or decreasing in areal extent – The areal extent of the contaminated groundwater plume has decreased in size in the east-west direction as evidenced by wells MW-10, MW-15, and MW-16. These wells had detectable concentrations of COCs prior to January 2015 and have been reported as below laboratory reporting limits since. In addition, reported concentrations of COCs in well MW-6R have remained below the ESLs for the second consecutive quarter, and benzene concentrations were reduced by an order of magnitude in several wells, including MW-4R, MW-5R, MW-8 as compared to the last monitoring event. Significant reductions in benzene concentrations were also observed in wells MW-11 and 12, and TPHg concentrations in wells MW-4, 5, 8, 11 and 12. Reductions in overall concentrations of COCs in the contaminated groundwater plume are expected to continue to lead to an overall decrease in the area of the plume in the future in order to meet this condition.

- **The contaminant plume that exceeds water quality objectives (RWQCB ESLs) must be less than 100 feet in length** – The contaminated groundwater plume is currently approximately 200 feet long. Continued reductions in overall concentrations of COCs in the contaminated groundwater plume are expected to lead to overall decreases in the length of the plume in the future in order to meet this condition.
- **Benzene concentrations in groundwater in the remaining contaminant plume will be less than 1,000 µg/L** – The maximum concentration of benzene detected in the contaminated groundwater plume has decreased from 18,000 µg/L in June 2014, to 1,100 µg/L in March 2017. This significant reduction in the maximum concentration of benzene shows great progress toward meeting this condition.
- **Benzene, ethylbenzene, and naphthalene concentrations in soil 5 to 10 feet below ground surface (bgs) will be less than the concentrations presented in Table 8 of the CAP (Ninyo & Moore, 2013a)** – Continued operation of the remediation system is expected to meet this condition. Confirmation soil samples will be collected following the completion of the remedial action to evaluate this criterion.

8. CONCLUSIONS

Ninyo & Moore presents the following conclusions:

- Remediation system O&M activities were performed biweekly between January and March, 2017. Biweekly and monthly O&M activities included monitoring the remediation system for proper operation and adding biological amendments (CBN nutrient mix and EZT-EA biosurfactant) to the remediation system.
- Collection of remediation system samples was performed monthly on January 4, February 1, March 3 and March 29, 2017. Analysis of remediation system samples indicated that the remediation system is operating properly. Breakthrough of COCs was noted in the GAC sample and on February 16, 2017 the GAC in the lead vessel was replaced.
- The 1st Quarter 2017 groundwater monitoring and sample collection was performed on March 2nd and 3rd, 2017.
 - Based on depth to water measurements collected during the 1st Quarter 2017 groundwater monitoring event, groundwater appears to be flowing to the east-northeast and southwest due to the influence of groundwater extraction wells EW-20, EW-21, and EW-22. Groundwater elevations indicate that groundwater has mounded at the site due to injection of amended water through the vertical injection wells and horizontal injection piping.
 - Dissolved phase VOC concentrations in groundwater exceed their respective Groundwater Vapor Intrusion Human Health Screening Levels or ESLs in wells MW-4R, MW-5R, MW-7R, MW-8, MW-11R, MW-12 and MW-14.
 - Monitoring wells MW-4R, MW-5R, MW-8, MW-11R, and MW-12 have decreased or stable TPHg concentrations; MW-6R, MW-7R and MW-14 had increasing TPHg concentrations; and MW-9, MW-10, MW-13, MW-15, and MW-16 remained non-detect for TPHg.
 - Monitoring wells MW-4R, MW-5R, MW-8, MW-11R, and MW-12 have decreased or stable benzene concentrations; MW-7R and MW-14 have increased benzene concentrations; and MW-6R, MW-9, MW-10, MW-13, MW-15, and MW-16 remained non-detect for benzene.
 - There were significant reductions in the TPHg and benzene concentrations detected in several groundwater samples. There was also a reduction in total area of the plume which indicates that the groundwater plume is undergoing remediation. The area of the TPHg and benzene dissolved phase groundwater plume reduced in the north-south direction and in the east-west direction compared to the groundwater monitoring event performed before remediation system startup in June of 2014. Concentrations of TPHg

and benzene in wells still remain relatively high indicating that operation of the remediation system should continue.

- Aerobic bioattenuation is the main driver of the remediation process in the groundwater plume. More aerobic conditions now appear to be taking place across the site, and more strongly in the center of the site than the previous quarter.

9. RECOMMENDATIONS

Based on the conclusions discussed above, Ninyo & Moore recommends continued implementation of the preferred remedial alternative (groundwater recirculation and enhanced bioremediation) presented in the *CAP*, dated August 1, 2013, including ongoing O&M activities and groundwater monitoring as detailed in the *O&M Plan*, dated December 24, 2013.

During future O&M events, Ninyo & Moore will continue evaluating the oxygen injection rates and injection pressures of the remediation system with the goal of producing positive ORP values and higher concentrations of DO in all wells.

10. LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities. Please also note that this assessment did not include an evaluation of geotechnical conditions or potential geologic hazards.

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between

sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. The testing and analyses have been conducted by an independent laboratory which is certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Ninyo & Moore's conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than those noted is undertaken at said parties' sole risk.

11. REFERENCES

- Ninyo & Moore, 2013a, Corrective Action Plan, Bill Chun Service Station, 2301 Santa Clara Avenue, Alameda, California, dated August 1.
- Ninyo & Moore, 2013b, Operations and Maintenance Plan, Bill Chun Service Station, 2301 Santa Clara Avenue, Alameda, California, dated December 24.
- Ninyo & Moore, 2015, Initial Groundwater Monitoring and System Evaluation Report, 2301 Santa Clara Avenue, Alameda, California, dated June 5.
- San Francisco Bay Regional Water Quality Control Board, Environmental Screening Levels, Interim Final, Oakland, California, Revised February 2016.
- SWRCB, 2012, Low-Threat UST Case Closure Policy, dated May 1.
- USEPA, 2004, How to Evaluate Alternative Cleanup Technologies for Underground Storage Tank Sites, EPA 510-R-04-002, dated May.

TABLE 1 – MONITORING WELL INVENTORY

Monitoring Well ID	Date Installed	Total Depth bgs	Riser Interval bgs	Screened Interval bgs ⁽¹⁾	Casing Diameter	Notes
MW-1	1/1993	25.0	0-10	10-25	2"	Abandoned 5/2012 because the riser was too deep
MW-2	1/1993	25.0	0-10	10-25	2"	Abandoned 5/2012 because the riser was too deep and an ORC sock was stuck in the well
MW-2R	5/2012	25.0	0-5	5-25	2"	Replaced MW-2
MW-3	1/1993	25.0	0-10	10-25	2"	Abandoned 5/2012 because the riser was too deep
MW-4	9/1993	25.0	0-7	7-25	2"	Abandoned 5/2012 because the riser was too deep
MW-4R	5/2012	25.0	0-5	5-25	2"	Replaced MW-4
MW-5	9/1993	25.0	0-7	7-25	2"	Abandoned 5/2012 because the riser was too deep
MW-5R	5/2012	25.0	0-5	5-25	2"	Replaced MW-5
MW-6	9/1993	25.0	0-7	7-25	2"	Abandoned 5/2012 because the riser was too deep
MW-6R	5/2012	25.0	0-5	5-25	2"	Replaced MW-6
MW-7	9/1993	25.0	0-7	7-25	2"	Abandoned 5/2012 because the casing was damaged and an ORC sock was stuck in the well
MW-7R	5/2012	25.0	0-5	5-25	2"	Replaced MW-7
MW-8	11/1995	14.0	0-5	5-14	2"	Redeveloped in 5/2012
MW-9	11/1995	20.0	0-5	5-20	2"	Redeveloped in 5/2012
MW-10	11/1995	16.5	0-6.5	6.5-16.5	2"	Redeveloped in 5/2012
MW-11	11/1995	20.0	0-5	5-20	2"	Abandoned 5/2012 because the well casing was not schedule 40 PVC (too thin)
MW-11R	5/2012	25.0	0-5	5-25	2"	Replaced MW-11
BJ	5/2005	13.0	0-8	8-13	--	The well could not be located during the May 22, 2012 well survey or any time since
BK	5/2005	11.0	0-6	6-11	--	The well could not be located during the May 22, 2012 well survey or any time since
MW-12 (former BL)	5/2005	24.0	0-14	14-24	2"	Well ID was changed from BL to MW-12 to conform with site well identification scheme
MW-13 (former BG)	5/2005	20.0	0-15	15-20	2"	Well ID was changed from BG to MW-13 to conform with site well identification scheme
MW-14 (former BF)	5/2005	15.0	0-5	5-15	2"	Well ID was changed from BF to MW-14 to conform with site well identification scheme
MW-15 (former BH)	5/2005	30.0	0-20	20-30	2"	Well ID was changed from BH to MW-15 to conform with site well identification scheme
MW-16 (former BM)	5/2005	30.0	0-20	20-30	2"	Well ID was changed from BM to MW-16 to conform with site well identification scheme
EW-12	10/2002	25.0 ⁽²⁾	0-7	7-25	4"	Abandoned 5/2012 because the riser was too deep
EW-13	10/2002	25.0 ⁽²⁾	0-7	7-25	4"	Abandoned 5/2012 because the seal is cracked
EW-14	10/2002	25.0 ⁽²⁾	0-7	7-25	4"	TOC was cut down to fit in well box, redeveloped in 5/2012; converted to injection well in 11/2014
EW-15	1/2004	25.0 ⁽²⁾	0-7	7-25	4"	Redeveloped in 5/2012; converted to injection well in 11/2014
EW-16	1/2004	25.0 ⁽²⁾	0-7	7-25	4"	Redeveloped in 5/2012; converted to injection well in 11/2014
EW-17	1/2004	25.0 ⁽²⁾	0-7	7-25	4"	Redeveloped in 5/2012; converted to injection well in 11/2014
EW-18	4/2014	15.0	0-5	5-15	4"	Converted to injection well in 11/2014

Monitoring Well ID	Date Installed	Total Depth bgs	Riser Interval bgs	Screened Interval bgs ⁽¹⁾	Casing Diameter	Notes
EW-19	4/2014	15.0	0-5	5-15	4"	Converted to injection well in 11/2014
EW-20	4/2014	25.0	0-5	5-25	4"	Converted to extraction well in 11/2014
EW-21	4/2014	25.0	0-5	5-25	4"	Converted to extraction well in 11/2014
EW-22	4/2014	25.0	0-5	5-25	4"	Converted to extraction well in 11/2014

Notes:

DTW = depth to water measured from TOC on May 10, 2012.

bgs = feet below ground surface

TOC = top of casing

(1) Screened interval data for wells installed prior to May 2012 is based on historical documents in databases.

(2) Reported as 22 feet bgs on GeoTracker and 25 feet bgs in historical reports. Field measurements indicate the total well depths are approximately 25 feet from TOC.

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

Date/Time	Elapsed Time	Extraction Flow Rate	Extraction Total	Totalizer	Products Added		Comments
	(min)	(gpm)	(gal)	(gal)	CBN (pounds)	PS (gal)	
11/21/14 14:00	0	--	0	0	0	0	System startup and test for 3 hours/cycles to evaluate leaks, etc.. Shut down system at 5 pm. Will start up 24/7 tomorrow.
11/22/14 8:00	1,080	0.8	870	700	250	0	System startup. BT onsite. Product addition started.
11/23/14 8:50	1,490	1.7	2,480	2,900	250	0	Slight surfacing at IN-18, reduced flow and injection time to 1 min.
11/24/14 7:30	1,360	1.6	2,130	5,010	50	50	950 lbs CBN left onsite, lots of PS remaining.
12/2/14 12:30	11,820	--	--	--	100	10	Connected 18 and 19 together. 19 was surfacing a little. Flow meter taken out for 18.
12/4/14 9:00	2,670	6.6	17,570	23,110	50	5	
12/10/14 10:50	8,750	1.0	8,370	31,410	50	5	
12/18/14 16:12	11,842	1.0	11,900	42,870	50	5	
1/2/15 11:12	21,300	1.2	24,970	65,390	50	5	
1/6/15 13:07	5,875	1.3	7,410	71,890	100	5	
1/16/15 9:50	14,203	1.2	17,460	87,090	50	5	
1/30/15 17:15	20,605	1.0	21,000	104,720	50	5	Mixing tank pH = 6.90.
2/6/15 15:00	9,945	1.1	10,630	113,350	50	5	Mixing tank pH = 7.30.
2/12/15 7:00	8,160	1.1	8,830	120,440	50	5	Mixing tank pH = 7.51 and holding tank pH = 7.67.
2/19/15 11:16	10,336	1.1	11,440	129,550	50	5	
2/27/15 9:55	11,439	1.1	12,590	139,800	50	5	Mixing tank pH = 7.07 and holding tank pH = 6.99.
3/5/15 15:35	8,980	1.1	9,990	147,850	50	5	Mixing tank pH = 7.10 and holding tank pH = 7.04.
3/13/15 12:00	11,305	1.1	12,580	157,900	50	5	Mixing tank pH = 7.05 and holding tank pH = 7.01.
3/25/15 12:43	17,323	1.1	18,280	172,300	50	5	Mixing tank pH = 7.30 and holding tank pH = 7.17. Dilute hydrogen peroxide injection was performed on March 18 through 21, 2015.
4/9/15 14:20	21,697	1.2	26,140	190,650	0	0	5 gallons of EZT-A2 TPH bacterial consortium added to remediation system. Mixing Tank pH = 7.83.
4/23/15 15:30	20,230	1.5	29,910	208,070	0	0	
5/8/15 9:30	21,240	1.4	29,460	228,260	50	0	
5/21/15 15:40	19,090	1.9	35,680	248,880	50	0	
6/4/15 9:05	19,765	1.8	36,260	270,030	50	0	Bag filters changed out on 5/28/15.
6/18/15 8:25	20,120	2.1	41,810	294,370	50	0	Bag filters changed out on 6/11/15.
7/1/15 16:15	19,190	2.7	52,130	320,500	50	0	Bag filters changed out on 6/25/15.
7/16/15 11:32	21,317	2.9	61,830	320,500	50	0	Bag filters changed out on 7/8/15.
7/29/15 8:24	18,532	2.9	54,610	375,000	50	0	Bag filters changed out on 7/30/15.
8/11/15 14:00	19,056	2.9	55,210	399,720	50	0	
8/27/15 16:00	23,160	3.0	69,430	429,540	50	0	Bag filters changed out on 8/27/15.
9/10/15 16:00	20,160	3.1	62,370	455,560	50	0	Bag filters changed out on 9/11/15.
9/24/15 15:30	20,130	3.4	68,180	482,680	50	0	
10/8/15 15:45	20,175	2.4	48,260	503,000	50	0	Bag filters changed out on 10/8/15.
10/22/15 15:30	20,145	1.1	22,010	525,970	50	0	
10/27/15 11:53	6,983	1.1	7,870	534,290	0	0	
10/29/15 9:37	2,744	0.7	1,850	536,070	50	5	Bag filters changed out and extraction pump and flow meter EW-20 cleaned of biofouling on 10/29/15.
10/30/15 11:53	1,576	1.8	2,840	538,360	0	0	
11/5/15 15:45	8,872	1.8	15,850	550,480	50	10	Bag filters changed out on 11/8/15.
11/19/15 8:52	19,747	1.7	34,380	576,920	50	5	Bag filters changed out on 11/24/15.
12/3/15 16:30	20,618	1.8	36,640	604,550	50	5	Bag filters changed out on 12/8/15. Dilute hydrogen peroxide injection was performed on 12/12/15.
12/17/15 14:20	20,030	1.7	33,510	630,030	50	5	Bag filters changed out on 12/21/15.
12/31/15 10:08	19,908	0.8	16,370	641,970	50	10	
1/13/16 15:30	19,042	1.9	36,560	667,700	50	5	Bag filters changed out on January 15 and 22, 2016. EW-20 extraction pump and flow meter cleaned of biofouling on 1/22/16.
1/28/16 9:00	21,210	2.0	43,240	695,990	100	5	Bag filters changed out on 2/10/16.
2/11/16 15:00	20,520	1.4	29,530	714,020	100	5	Bag filters changed out on 2/23/16.
2/25/16 8:30	19,770	1.9	36,950	732,050	100	5	Bag filters changed out on 3/7/16.
3/10/16 9:00	20,190	0.6	12,320	745,710	100	5	
3/24/16 15:00	20,520	2.3	47,980	773,600	50	5	
4/7/16 15:15	20,175	2.5	50,030	801,400	50	5	Bag filters changed out on 4/13/16.

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

4/22/16 7:10	21,115	0.4	8,500	808,440	50	5	
5/5/16 7:20	18,730	2.4	45,140	834,010	50	5	
5/17/16 14:00	17,680	2.4	41,970	856,370	0	0	Bag filters changed out on 5/18/16.
6/3/16 11:40	24,340	1.4	33,650	877,140	50	5	Bag filters changed out on 6/9/16.
6/20/16 16:30	24,770	1.8	43,870	910,240	50	5	
7/1/16 7:20	15,290	2.8	43,170	930,130	50	5	Bag filters changed out on 7/1/16.
7/15/16 16:00	20,680	2.4	50,370	950,420	50	5	Bag filters changed out on 7/20/16.
7/28/16 8:00	18,240	1.6	29,210	974,000	50	5	
8/16/16 15:00	27,780	1.9	52,910	1,006,650	50	0	Bag filters changed out on 8/13/16.
8/31/16 16:00	21,660	1.8	39,890	1,032,370	50	0	Bag Filters changed out on 8/23/17. EW-20 totalizer was noted as broken on 8/31/16, but groundwater extraction from EW-20 continues.
9/13/16 6:50	18,170	1.2	21,480	1,053,600	50	0	Bag filters changed out on 9/15/16. EW-20 totalizer replaced on 9/15/16.
9/30/16 13:28	24,878	1.4	35,039	1,076,540	50	0	Bag filters changed out on September 27, 2016.
10/14/16 8:01	19,833	1.5	29,510	1,095,700	50	0	Bag filters changed out on October 12, 2016.
10/26/16 13:00	17,579	1.7	30,040	1,114,230	50	0	Bag filters changed out on October 27, 2016.
11/17/16 12:50	31,670	1.7	53,520	1,152,470	50	0	Bag filters changed out on November 13, 2016.
12/1/16 8:04	19,874	--	--	1,175,160	50	0	Bag filters changed out on November 23, 2016. Extraction well data was not collected; however, the extraction wells were operating normally.
12/19/16 16:32	26,428	2.3	60,210	1,201,470	50	0	Bag filters changed out on 12/14/16.
1/4/17 8:00	22,528	1.3	28,390	1,225,500	50	0	Bag filters changed out on 1/2/17.
1/17/17 10:52	18,892	1.7	31,410	1,247,910	50	0	Bag filters changed out on 1/25/17.
2/1/17 13:08	21,736	0.9	19,710	1,274,810	50	0	Bag filters changed out on 2/6/17.
2/13/17 8:59	17,031	0.8	13,190	1,296,510	50	0	Bag filters changed out on 2/13/17; granular activated carbon changed out on 2/16/17. Cleaned y strainer; EW-21 turns on briefly and EW-22 does not turn on, reset system.
3/3/17 12:59	26,160	1.1	27,780	1,326,000	50	0	Bag filters changed out on 3/1/17; disassemble and clean extraction pumps on 3/1/17. Cleaned y strainer.
3/15/17 8:24	17,005	0.9	14,810	1,338,380	50	0	Bag filters changed out on 3/12/17. Cleaned y strainer.
3/28/17 11:00	18,876	0.8	14,320	1,345,790	50	0	Bag filters changed out on 3/20/17; changed out filters in DO-IT dissolved oxygen pump on 3/20/17. Cleaned y strainer.
Totals	1,235,340		2,065,799		4,050	240	

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

Date/Time	Elapsed Time	INJECTION WELLS																				
		EW-18			EW-19			EW-19/18			EW-16			IN-2/3			IN-1 and EW-17			EW-14/15		
		Reading	Volume	Rate	Reading	Volume	Rate	Reading	Volume	Rate	Reading	Volume	Rate	Reading	Volume	Rate	Reading	Volume	Rate	Reading	Volume	Rate
		(min)	(gal)	(gal)	(gpm)	(gal)	(gal)	(gpm)	(gal)	(gal)	(gpm)	(gal)	(gal)	(gpm)	(gal)	(gal)	(gpm)	(gal)	(gal)	(gpm)	(gal)	(gal)
11/21/14 14:00	0	493,150	--	--	0	--	--	--	--	--	0	--	--	0	--	--	0	--	--	0	--	--
11/22/14 8:00	1,080	493,250	100	0.09	80	80	0.07	--	--	--	102	102	0.09	90	90	0.08	80	80	0.07	80	80	0.07
11/23/14 8:50	1,490	493,660	410	0.28	450	370	0.25	--	--	--	420	318	0.21	620	530	0.36	420	340	0.23	440	360	0.24
11/24/14 7:30	1,360	493,800	140	0.10	760	310	0.23	--	--	--	735	315	0.23	1,030	410	0.30	870	450	0.33	900	460	0.34
12/2/14 12:30	11,820	494,670	870	0.07	2,810	2,050	0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/4/14 9:00	2,670	--	--	--	--	--	--	2,980	2,980	1.12	3,600	2,865	1.07	4,930	3,900	1.46	5,280	4,410	1.65	4,590	3,690	1.38
12/10/14 10:50	8,750	--	--	--	--	--	--	3,520	540	0.06	5,090	1,490	0.17	6,980	2,050	0.23	7,570	2,290	0.26	6,530	1,940	0.22
12/18/14 16:12	11,842	--	--	--	--	--	--	4,250	730	0.06	7,130	2,040	0.17	9,820	2,840	0.24	10,720	3,150	0.27	9,210	2,680	0.23
1/2/15 11:12	21,300	--	--	--	--	--	--	5,700	1,450	0.07	11,000	3,870	0.18	15,100	5,280	0.25	16,870	6,150	0.29	14,410	5,200	0.24
1/6/15 13:07	5,875	--	--	--	--	--	--	6,120	420	0.07	12,110	1,110	0.19	16,600	1,500	0.26	18,620	1,750	0.30	15,940	1,530	0.26
1/16/15 9:50	14,203	--	--	--	--	--	--	7,100	980	0.07	14,700	2,590	0.18	20,120	3,520	0.25	22,680	4,060	0.29	19,530	3,590	0.25
1/30/15 17:15	20,605	--	--	--	--	--	--	8,230	1,130	0.05	17,670	2,970	0.14	24,310	4,190	0.20	27,370	4,690	0.23	23,420	3,890	0.19
2/6/15 15:00	9,945	--	--	--	--	--	--	8,790	560	0.06	18,120	450	0.05	26,170	1,860	0.19	29,660	2,290	0.23	25,250	1,830	0.18
2/12/15 7:00	8,160	--	--	--	--	--	--	9,240	450	0.06	20,300	2,180	0.27	28,030	1,860	0.23	31,550	1,890	0.23	26,750	1,500	0.18
2/19/15 11:16	10,336	--	--	--	--	--	--	9,820	580	0.06	21,820	1,520	0.15	30,170	2,140	0.21	33,950	2,400	0.23	28,650	1,900	0.18
2/27/15 9:55	11,439	--	--	--	--	--	--	10,460	640	0.06	23,520	1,700	0.15	32,560	2,390	0.21	36,670	2,720	0.24	30,760	2,110	0.18
3/5/15 15:35	8,980	--	--	--	--	--	--	10,970	510	0.06	24,850	1,330	0.15	34,440	1,880	0.21	38,800	2,130	0.24	32,400	1,640	0.18
3/13/15 12:00	11,305	--	--	--	--	--	--	11,600	630	0.06	26,510	1,660	0.15	36,750	2,310	0.20	41,450	2,650	0.23	34,450	2,050	0.18
3/25/15 12:43	17,323	--	--	--	--	--	--	12,490	890	0.05	28,510	2,000	0.12	40,670	3,920	0.23	45,350	3,900	0.23	37,390	2,940	0.17
4/9/15 14:20	21,697	--	--	--	--	--	--	13,900	1,410	0.06	31,210	2,700	0.12	46,130	5,460	0.25	49,990	4,640	0.21	41,060	3,670	0.17
4/23/15 15:30	20,230	--	--	--	--	--	--	15,220	1,320	0.07	33,730	2,520	0.12	51,230	5,100	0.25	54,600	4,610	0.23	44,460	3,400	0.17
5/8/15 9:30	21,240	--	--	--	--	--	--	16,340	1,120	0.05	35,860	2,130	0.10	55,720	4,490	0.21	63,440	8,840	0.42	47,510	3,050	0.14
5/21/15 15:40	19,090	--	--	--	--	--	--	17,430	1,090	0.06	38,040	2,180	0.11	62,420	6,700	0.35	69,260	5,820	0.30	51,770	4,260	0.22
6/4/15 9:05	19,765	--	--	--	--	--	--	18,450	1,020	0.05	40,030	1,990	0.10	69,520	7,100	0.36	75,420	6,160	0.31	56,260	4,490	0.23
6/18/15 8:25	20,120	--	--	--	--	--	--	19,580	1,130	0.06	42,230	2,200	0.11	77,470	7,950	0.40	82,660	7,240	0.36	61,620	5,360	0.27
7/1/15 16:15	19,190	--	--	--	--	--	--	20,870	1,290	0.07	44,810	2,580	0.13	86,070	8,600	0.45	90,270	7,610	0.40	66,960	5,340	0.28
7/16/15 11:32	21,317	--	--	--	--	--	--	22,330	1,460	0.07	47,750	2,940	0.14	95,720	9,650	0.45	98,840	8,570	0.40	73,050	6,090	0.29
7/29/15 8:24	18,532	--	--	--	--	--	--	23,560	1,230	0.07	50,230	2,480	0.13	104,050	8,330	0.45	106,170	7,330	0.40	78,300	5,250	0.28
8/11/15 14:00	19,056	--	--	--	--	--	--	24,770	1,210	0.06	52,640	2,410	0.13	112,230	8,180	0.43	113,340	7,170	0.38	83,500	5,200	0.27
8/27/15 16:00	23,160	--	--	--	--	--	--	26,210	1,440	0.06	55,510	2,870	0.12	121,890	9,660	0.42	121,750	8,410	0.36	89,950	6,450	0.28
9/10/15 16:00	20,160	--	--	--	--	--	--	27,040	830	0.04	58,080	2,570	0.13	130,450	8,560	0.42	129,080	7,330	0.36	95,710	5,760	0.29
9/24/15 15:30	20,130	--	--	--	--	--	--	27,630	590	0.03	60,850	2,770	0.14	139,580	9,130	0.45	136,900	7,820	0.39	101,590	5,880	0.29
10/8/15 15:45	20,175	--	--	--	--	--	--	27,970	340	0.02	62,560	1,710	0.08	146,010	6,430	0.32	143,380	6,480	0.32	106,310	4,720	0.23
10/22/15 15:30	20,145	--	--	--	--	--	--	28,190	220	0.01	63,860	1,300	0.06	153,460	7,450	0.37	151,190	7,810	0.39	111,890	5,580	0.28
10/27/15 11:53	6,983	--	--	--	--	--	--	28,300	110	0.02	64,440	580	0.08	156,130	2,670	0.38	153,940	2,750	0.39	113,820	1,930	0.28
10/29/15 9:37	2,744	--	--	--	--	--	--	28,320	20	0.01	64,500	60	0.02	156,710	580	0.21	154,580	640	0.23	114,250	430	0.16
10/30/15 11:53	1,576	494,740	70	0.04	28,410	90	0.06	--	--	--	64,710	210	0.13	157,440	730	0.46	155,210	630	0.40	114,720	470	0.30
11/5/15 15:45	8,872	495,080	340	0.04	28,700	290	0.03	--	--	--	66,040	1,330	0.15	160,920	3,480	0.39	158,260	3,050	0.34	117,910	3,190	0.36
11/19/15 8:52	19,747	495,800	720	0.04	29,180	480	0.02	--	--	--	68,630	2,590	0.13	168,500	7,580	0.38	165,070	6,810	0.34	125,050	7,140	0.36
12/3/15 16:30	20,618	--	--	--	--	--	--	30,000	820	0.04	71,540	2,910	0.14	176,510	8,010	0.39	172,280	7,210	0.35	132,470	7,420	0.36
12/17/15 14:20	20,030	--	--	--	--	--	--	30,850	850	0.04	73,720	2,180	0.11	184,030	7,520	0.38	179,450	7,170	0.36	138,920	6,450	0.32
12/31/15 10:08	19,908	--	--	--	--	--	--	31,200	350	0.02	74,160	440	0.02	187,800	3,770	0.19	183,520	4,070	0.20	146,300	7,380	0.37
1/13/16 15:30	19,042	--	--	--	--	--	--	31,570	370	0.02	75,380	1,220	0.06	196,170	8,370	0.44	191,400	7,880	0.41	148,760	2,460	0.13
1/28/16 9:00	21,210	--	--	--	--	--	--	32,040	470	0.02	76,730	1,350	0.06	205,270	9,100	0.43	200,160	8,760	0.41	156,630	7,870	0.37
2/11/16 15:00	20,520	--	--	--	--	--	--	32,380	340	0.02	77,460	730	0.04	209,910	4,640	0.23	206,520	6,360	0.31	163,030	6,400	0.31
2/25/16 8:30	19,770	--	--	--	--	--	--	32,780	400	0.02	78,460	1,000	0.05	215,820	5,910	0.30	214,250	7,730	0.39	171,160	8,130	0.41
3/10/16 9:00	20,190	--	--	--	--	--	--	32,940	160	0.01	78,850	390	0.02	217,980	2,160	0.11	216,520	2,270	0.11	173,580	2,420	0.12

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

3/24/16 15:00	20,520	--	--	--	--	--	--	33,630	690	0.03	80,280	1,430	0.07	226,240	8,260	0.40	225,010	8,490	0.41	181,920	8,340	0.41
4/7/16 15:15	20,175	--	--	--	--	--	--	34,230	600	0.03	81,590	1,310	0.06	234,680	8,440	0.42	233,600	8,590	0.43	190,240	8,320	0.41
4/22/16 7:10	21,115	--	--	--	--	--	--	34,290	60	0.00	81,740	150	0.01	236,760	2,080	0.10	236,570	2,970	0.14	192,410	2,170	0.10
5/5/16 7:20	18,730	--	--	--	--	--	--	34,910	620	0.03	83,070	1,330	0.07	244,410	7,650	0.41	243,660	7,090	0.38	200,120	7,710	0.41
5/17/16 14:00	17,680	--	--	--	--	--	--	35,440	530	0.03	84,230	1,160	0.07	251,110	6,700	0.38	250,280	6,620	0.37	206,800	6,680	0.38
6/3/16 11:40	24,340	--	--	--	--	--	--	35,940	500	0.02	85,360	1,130	0.05	257,270	6,160	0.25	256,440	6,160	0.25	213,120	6,320	0.26
6/20/16 16:30	24,770	--	--	--	--	--	--	36,320	380	0.02	86,490	1,130	0.05	266,180	8,910	0.36	267,090	10,650	0.43	223,900	10,780	0.44
7/1/16 7:20	15,290	--	--	--	--	--	--	36,500	180	0.01	87,100	610	0.04	271,310	5,130	0.34	273,720	6,630	0.43	230,400	6,500	0.43
7/15/16 16:00	20,680	--	--	--	--	--	--	36,790	290	0.01	88,060	960	0.05	278,520	7,210	0.35	282,500	8,780	0.42	238,910	8,510	0.41
7/28/16 8:00	18,240	--	--	--	--	--	--	36,970	180	0.01	88,680	620	0.03	283,190	4,670	0.26	288,220	5,720	0.31	244,430	5,520	0.30
8/16/16 15:00	27,780	--	--	--	--	--	--	37,420	450	0.02	90,270	1,590	0.06	294,190	11,000	0.40	299,320	11,100	0.40	251,880	7,450	0.27
8/31/16 16:00	21,660	--	--	--	--	--	--	37,820	400	0.02	91,590	1,320	0.06	302,640	8,450	0.39	307,260	7,940	0.37	257,330	5,450	0.25
9/13/16 6:50	18,170	--	--	--	--	--	--	38,100	280	0.02	92,520	930	0.05	309,410	6,770	0.37	313,790	6,530	0.36	262,040	4,710	0.26
9/30/16 13:28	24,878	--	--	--	--	--	--	38,410	310	0.01	93,620	1,100	0.04	317,700	8,290	0.33	322,310	8,520	0.34	268,080	6,040	0.24
10/14/16 8:01	19,833	--	--	--	--	--	--	38,650	240	0.01	94,390	770	0.04	324,050	6,350	0.32	328,750	6,440	0.32	272,740	4,660	0.23
10/26/16 13:00	17,579	--	--	--	--	--	--	39,000	350	0.02	95,240	850	0.05	330,000	5,950	0.34	334,990	6,240	0.35	277,170	4,430	0.25
11/17/16 12:50	31,670	--	--	--	--	--	--	39,820	820	0.03	96,920	1,680	0.05	342,110	12,110	0.38	348,170	13,180	0.42	286,140	8,970	0.28
12/1/16 8:04	19,874	--	--	--	--	--	--	40,280	460	0.02	97,860	940	0.05	349,410	7,300	0.37	355,500	7,330	0.37	291,270	5,130	0.26
12/19/16 16:32	26,428	--	--	--	--	--	--	40,850	570	0.02	99,060	1,200	0.05	357,490	8,080	0.31	363,760	8,260	0.31	297,380	6,110	0.23
1/4/17 8:00	22,528	--	--	--	--	--	--	41,310	460	0.02	100,070	1,010	0.04	364,270	6,780	0.30	371,900	8,140	0.36	302,520	5,140	0.23
1/17/17 10:52	18,892	--	--	--	--	--	--	41,750	440	0.02	101,030	960	0.05	371,080	6,810	0.36	380,320	8,420	0.45	306,900	4,380	0.23
2/1/17 13:08	21,736	--	--	--	--	--	--	42,310	560	0.03	102,190	1,160	0.05	378,778	7,698	0.35	390,300	9,980	0.46	312,050	5,150	0.24
2/13/17 8:59	17,031	--	--	--	--	--	--	42,720	410	0.02	103,000	810	0.05	385,270	6,492	0.38	398,340	8,040	0.47	316,160	4,110	0.24
3/3/17 12:59	26,160	--	--	--	--	--	--	43,400	680	0.03	104,320	1,320	0.05	393,660	8,390	0.32	409,250	10,910	0.42	321,780	5,620	0.21
3/15/17 8:24	17,005	--	--	--	--	--	--	43,650	250	0.01	104,830	510	0.03	397,100	3,440	0.20	413,680	4,430	0.26	324,040	2,260	0.13
3/28/17 11:00	18,876	--	--	--	--	--	--	43,800	150	0.01	105,130	300	0.02	399,250	2,150	0.11	416,230	2,550	0.14	325,280	1,240	0.07

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

Date/Time	Elapsed Time (min)	EXTRACTION WELLS								
		EW-20			EW-22			EW-21		
		Reading (gal)	Volume (gal)	Rate (gpm)	Reading (gal)	Volume (gal)	Rate (gpm)	Reading (gal)	Volume (gal)	Rate (gpm)
11/21/14 14:00	0	0	--	--	0	--	--	0	--	--
11/22/14 8:00	1,080	420	420	0.39	250	250	0.23	200	200	0.19
11/23/14 8:50	1,490	1,750	1,330	0.89	930	680	0.46	670	470	0.32
11/24/14 7:30	1,360	2,750	1,000	0.74	1,450	520	0.38	1,280	610	0.45
12/2/14 12:30	11,820	--	--	--	--	--	--	--	--	--
12/4/14 9:00	2,670	13,130	10,380	3.89	2,210	760	0.28	7,710	6,430	2.41
12/10/14 10:50	8,750	16,720	3,590	0.41	4,320	2,110	0.24	10,380	2,670	0.31
12/18/14 16:12	11,842	21,310	4,590	0.39	7,540	3,220	0.27	14,470	4,090	0.35
1/2/15 11:12	21,300	32,170	10,860	0.51	13,900	6,360	0.30	22,220	7,750	0.36
1/6/15 13:07	5,875	35,590	3,420	0.58	15,660	1,760	0.30	24,450	2,230	0.38
1/16/15 9:50	14,203	43,480	7,890	0.56	20,010	4,350	0.31	29,670	5,220	0.37
1/30/15 17:15	20,605	53,090	9,610	0.47	24,740	4,730	0.23	36,330	6,660	0.32
2/6/15 15:00	9,945	58,110	5,020	0.50	27,160	2,420	0.24	39,520	3,190	0.32
2/12/15 7:00	8,160	62,180	4,070	0.50	29,170	2,010	0.25	42,270	2,750	0.34
2/19/15 11:16	10,336	67,480	5,300	0.51	31,830	2,660	0.26	45,750	3,480	0.34
2/27/15 9:55	11,439	73,460	5,980	0.52	34,990	3,160	0.28	49,200	3,450	0.30
3/5/15 15:35	8,980	78,160	4,700	0.52	37,610	2,620	0.29	51,870	2,670	0.30
3/13/15 12:00	11,305	84,030	5,870	0.52	40,990	3,380	0.30	55,200	3,330	0.29
3/25/15 12:43	17,323	92,520	8,490	0.49	45,660	4,670	0.27	60,320	5,120	0.30
4/9/15 14:20	21,697	105,020	12,500	0.58	51,780	6,120	0.28	67,840	7,520	0.35
4/23/15 15:30	20,230	118,220	13,200	0.65	58,050	6,270	0.31	78,280	10,440	0.52
5/8/15 9:30	21,240	134,470	16,250	0.77	65,210	7,160	0.34	84,330	6,050	0.28
5/21/15 15:40	19,090	153,100	18,630	0.98	72,510	7,300	0.38	94,080	9,750	0.51
6/4/15 9:05	19,765	171,210	18,110	0.92	79,820	7,310	0.37	104,920	10,840	0.55
6/18/15 8:25	20,120	192,250	21,040	1.05	88,080	8,260	0.41	117,430	12,510	0.62
7/1/15 16:15	19,190	222,140	29,890	1.56	97,150	9,070	0.47	130,600	13,170	0.69
7/16/15 11:32	21,317	259,080	36,940	1.73	107,650	10,500	0.49	144,990	14,390	0.68
7/29/15 8:24	18,532	291,890	32,810	1.77	116,490	8,840	0.48	157,950	12,960	0.70
8/11/15 14:00	19,056	325,290	33,400	1.75	125,280	8,790	0.46	170,970	13,020	0.68
8/27/15 16:00	23,160	368,880	43,590	1.88	135,900	10,620	0.46	186,190	15,220	0.66
9/10/15 16:00	20,160	408,090	39,210	1.94	145,590	9,690	0.48	199,660	13,470	0.67
9/24/15 15:30	20,130	451,090	43,000	2.14	156,180	10,590	0.53	214,250	14,590	0.72
10/8/15 15:45	20,175	480,760	29,670	1.47	163,900	7,720	0.38	225,120	10,870	0.54
10/22/15 15:30	20,145	480,760	0	0.00	173,450	9,550	0.47	237,580	12,460	0.62
10/27/15 11:53	6,983	480,760	0	0.00	176,910	3,460	0.50	241,990	4,410	0.63
10/29/15 9:37	2,744	480,770	10	0.00	177,720	810	0.30	243,020	1,030	0.38
10/30/15 11:53	1,576	481,800	1,030	0.65	178,530	810	0.51	244,020	1,000	0.63
11/5/15 15:45	8,872	487,470	5,670	0.64	183,120	4,590	0.52	249,610	5,590	0.63
11/19/15 8:52	19,747	499,880	12,410	0.63	193,220	10,100	0.51	261,480	11,870	0.60
12/3/15 16:30	20,618	514,040	14,160	0.69	203,800	10,580	0.51	273,380	11,900	0.58
12/17/15 14:20	20,030	528,270	14,230	0.71	212,080	8,280	0.41	284,380	11,000	0.55
12/31/15 10:08	19,908	534,710	6,440	0.32	216,450	4,370	0.22	289,940	5,560	0.28
1/13/16 15:30	19,042	549,690	14,980	0.79	225,910	9,460	0.50	302,060	12,120	0.64
1/28/16 9:00	21,210	566,690	17,000	0.80	237,340	11,430	0.54	316,870	14,810	0.70
2/11/16 15:00	20,520	578,140	11,450	0.56	245,110	7,770	0.38	327,180	10,310	0.50
2/25/16 8:30	19,770	593,780	15,640	0.79	254,080	8,970	0.45	339,520	12,340	0.62
3/10/16 9:00	20,190	599,210	5,430	0.27	257,020	2,940	0.15	343,470	3,950	0.20
3/24/16 15:00	20,520	618,100	18,890	0.92	268,550	11,530	0.56	361,030	17,560	0.86
4/7/16 15:15	20,175	640,060	21,960	1.09	279,340	10,790	0.53	378,310	17,280	0.86

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

4/22/16 7:10	21,115	640,610	550	0.03	282,560	3,220	0.15	383,040	4,730	0.22
5/5/16 7:20	18,730	659,590	18,980	1.01	292,920	10,360	0.55	398,840	15,800	0.84
5/17/16 14:00	17,680	679,110	19,520	1.10	301,620	8,700	0.49	412,590	13,750	0.78
6/3/16 11:40	24,340	692,910	13,800	0.57	308,860	7,240	0.30	425,200	12,610	0.52
6/20/16 16:30	24,770	714,950	22,040	0.89	311,160	2,300	0.09	444,730	19,530	0.79
7/1/16 7:20	15,290	728,630	13,680	0.89	328,630	17,470	1.14	456,750	12,020	0.79
7/15/16 16:00	20,680	750,900	22,270	1.08	339,230	10,600	0.51	474,250	17,500	0.85
7/28/16 8:00	18,240	761,680	10,780	0.59	345,880	6,650	0.36	486,030	11,780	0.65
8/16/16 15:00	27,780	779,860	18,180	0.65	358,280	12,400	0.45	508,360	22,330	0.80
8/31/16 16:00	21,660	793,220	13,360	0.62	367,610	9,330	0.43	525,560	17,200	0.79
9/13/16 6:50	18,170	793,220	0.00	0.00	375,080	7,470	0.41	539,570	14,010	0.77
9/15/16 7:00	2,890	495,871	--	--	--	--	--	--	--	--
9/30/16 13:28	21,988	504,900	9,029	0.41	384,380	9,300	0.42	556,280	16,710	0.76
10/14/16 8:01	19,833	513,330	8,430	0.43	392,460	8,080	0.41	569,280	13,000	0.66
10/26/16 13:00	17,579	521,740	8,410	0.48	400,440	7,980	0.45	582,930	13,650	0.78
11/17/16 12:50	31,670	539,060	17,320	0.55	413,420	12,980	0.41	606,150	23,220	0.73
12/1/16 8:04	19,874	--	--	--	--	--	--	--	--	--
12/19/16 16:32	26,428	564,680	25,620	0.97	434,300	20,880	0.79	619,860	13,710	0.52
1/4/17 8:00	22,528	578,200	13,520	0.60	449,170	14,870	0.66	619,860	0	0.00
1/17/17 10:52	18,892	591,040	12,840	0.68	467,740	18,570	0.98	619,860	0	0.00
2/1/17 13:08	21,736	605,510	14,470	0.67	471,520	3,780	0.17	621,320	1,460	0.07
2/13/17 8:59	17,031	616,680	11,170	0.66	471,520	0	0.00	623,340	2,020	0.12
3/3/17 12:59	26,160	628,820	12,140	0.46	472,350	830	0.03	638,150	14,810	0.57
3/15/17 8:24	17,005	633,190	4,370	0.26	477,220	4,870	0.29	643,720	5,570	0.33
3/28/17 11:00	18,876	635,690	2,500	0.13	480,340	3,120	0.17	646,850	8,700	0.46

Notes:

Remediation system startup: NOV 21, 2014.

Product addition began: NOV 22, 2014

min = minutes

gpm = gallons per minute

gal = gallons

CBN = Nutrients Added

A2 = bacterial consortium added

PS = Surfactant Added

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-2R	05/10/12	28.56	25.18	7.81	7.81	0.00	20.75	NA	NA	2" Diameter well
MW-2R	11/14/12	28.56	NM	NM	NM	ND	NA	NA	NA	Not Sampled and only gauged for LPH
MW-2R	04/17/13	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	06/25/14	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	12/04/14	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	12/31/14	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	01/22/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	02/19/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	6/11/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	08/11/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	11/10/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	02/02/16	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	05/16/16	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	08/16/16	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-4R	05/10/12	28.45	25.13	7.86	7.86	0.00	20.59	NA	NA	2" Diameter well
MW-4R	11/14/12	28.45	25.12	8.58	8.58	0.00	19.87	Decrease	-0.72	
MW-4R	04/17/13	28.45	25.10	8.13	8.13	0.00	20.32	Rise	0.45	
MW-4R	06/25/14	28.45	24.87	8.84	8.84	0.00	19.61	Decrease	-0.71	
MW-4R	12/04/14	28.45	24.90	9.00	9.00	0.00	19.45	Decrease	-0.16	slight hydrocarbon odor
MW-4R	12/31/14	28.45	24.90	7.45	7.45	0.00	21.00	Rise	1.55	
MW-4R	01/22/15	28.45	24.90	8.25	8.25	0.00	20.20	Decrease	-0.80	
MW-4R	02/19/15	28.45	24.90	8.15	8.15	0.00	20.30	Rise	0.10	
MW-4R	06/11/15	28.45	29.18	9.08	9.08	0.00	19.37	Decrease	-0.93	
MW-4R	08/11/15	28.45	25.19	9.98	9.98	0.00	18.47	Decrease	-0.90	
MW-4R	11/10/15	28.45	25.17	10.24	10.24	0.00	18.21	Decrease	-0.26	
MW-4R	02/02/16	28.45	24.89	8.65	8.65	0.00	19.80	Rise	1.59	
MW-4R	05/16/16	28.45	25.19	9.05	9.05	0.00	19.40	Decrease	-0.40	
MW-4R	08/16/16	28.45	24.88	9.78	9.78	0.00	18.67	Decrease	-0.73	
MW-4R	12/01/16	28.45	25.19	9.42	9.42	0.00	19.03	Decrease	-0.37	Brownish water, has hydrocarbon odor
MW-4R	03/03/17	28.45	25.20	6.82	6.82	0.00	21.63	Rise	2.23	Black sediment in initial uptake; clear
MW-5R	05/10/12	28.25	23.79	7.46	7.46	0.00	20.79	NA	NA	2" Diameter well
MW-5R	11/14/12	28.25	23.78	8.41	8.41	0.00	19.84	Decrease	-0.95	
MW-5R	04/17/13	28.25	23.70	7.65	7.65	0.00	20.60	Rise	0.76	
MW-5R	06/25/14	28.25	23.50	8.57	8.57	0.00	19.68	Decrease	-0.92	
MW-5R	12/04/14	28.25	23.50	7.40	7.40	0.00	20.85	Rise	1.17	
MW-5R	12/31/14	28.25	23.50	6.20	6.20	0.00	22.05	Rise	1.20	
MW-5R	01/22/15	28.25	23.50	7.05	7.05	0.00	21.20	Decrease	-0.85	
MW-5R	02/19/15	28.25	23.50	7.10	7.10	0.00	21.15	Decrease	-0.05	
MW-5R	06/11/15	28.25	23.79	7.84	7.84	0.00	20.42	Decrease	-0.73	Brown water, has distinct hydrocarbon odor
MW-5R	08/11/15	28.25	24.79	8.11	8.11	0.00	20.14	Decrease	-0.27	
MW-5R	11/10/15	28.25	23.78	8.58	8.58	0.00	19.67	Decrease	-0.47	
MW-5R	02/02/16	28.25	23.50	6.62	6.62	0.00	21.63	Rise	1.96	
MW-5R	05/16/16	28.25	23.81	7.19	7.19	0.00	21.06	Decrease	-0.57	
MW-5R	08/16/16	28.25	23.49	8.28	8.28	0.00	19.97	Decrease	-1.09	Black sticky material in purge water
MW-5R	12/01/16	28.25	23.81	7.40	7.40	0.00	20.85	Decrease	-0.21	Hydrocarbon and sewage odor
MW-5R	03/03/17	28.25	23.81	6.00	6.00	0.00	22.25	Rise	1.19	Hydrocarbon odor, algae-like material

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-6R	05/10/12	28.07	25.22	7.21	7.21	0.00	20.86	NA	NA	2" Diameter well
MW-6R	11/14/12	28.07	25.20	8.31	8.31	0.00	19.76	Decrease	-1.10	
MW-6R	04/17/13	28.07	24.90	7.60	7.60	0.00	20.47	Rise	0.71	
MW-6R	06/25/14	28.07	24.87	8.49	8.49	0.00	19.58	Decrease	-0.89	
MW-6R	12/04/14	28.07	24.90	7.40	7.40	0.00	20.67	Rise	1.09	
MW-6R	12/31/14	28.07	24.90	6.00	6.00	0.00	22.07	Rise	1.40	
MW-6R	01/22/15	28.07	24.90	7.00	7.00	0.00	21.07	Decrease	-1.00	
MW-6R	02/19/15	28.07	24.90	7.05	7.05	0.00	21.02	Decrease	-0.05	
MW-6R	06/11/15	28.07	25.18	7.78	7.78	0.00	20.29	Decrease	-0.73	
MW-6R	08/11/15	28.07	25.18	8.20	8.20	0.00	19.87	Decrease	-0.42	
MW-6R	11/10/15	28.07	25.13	8.74	8.74	0.00	19.33	Decrease	-0.54	
MW-6R	02/02/16	28.07	24.94	6.05	6.05	0.00	22.02	Rise	2.69	
MW-6R	05/16/16	28.07	25.23	6.93	6.93	0.00	21.14	Decrease	-0.88	
MW-6R	08/16/16	28.07	24.89	8.13	8.13	0.00	19.94	Decrease	-1.20	
MW-6R	12/01/16	28.07	25.24	7.40	7.40	0.00	20.67	Decrease	-0.47	
MW-6R	03/02/17	28.07	25.25	4.93	4.93	0.00	23.14	Rise	2.00	Cloudy
MW-7R	05/10/12	28.41	25.33	7.63	7.63	0.00	20.78	NA	NA	2" Diameter well
MW-7R	11/14/12	28.41	25.30	8.68	8.68	0.00	19.73	Decrease	-2.48	
MW-7R	04/17/13	28.41	24.95	7.85	7.85	0.00	20.56	Rise	0.83	
MW-7R	06/25/14	28.41	24.97	8.79	8.79	0.00	19.62	Decrease	-0.94	
MW-7R	12/04/14	28.41	24.95	7.65	7.65	0.00	20.76	Rise	1.14	
MW-7R	12/31/14	28.41	24.95	6.15	6.15	0.00	22.26	Rise	1.50	
MW-7R	01/22/15	28.41	24.95	7.05	7.05	0.00	21.36	Decrease	-0.90	
MW-7R	02/19/15	28.41	24.95	7.10	7.10	0.00	21.31	Decrease	-0.05	
MW-7R	06/11/15	28.41	25.28	7.84	7.84	0.00	20.57	Decrease	-0.74	
MW-7R	08/11/15	28.41	25.29	8.25	8.25	0.00	20.16	Decrease	-0.41	
MW-7R	11/10/15	28.41	25.22	9.77	9.77	0.00	18.64	Decrease	-1.52	
MW-7R	02/02/16	28.41	24.96	6.27	6.27	0.00	22.14	Rise	3.50	
MW-7R	05/16/16	28.41	25.23	7.04	7.04	0.00	21.37	Decrease	-0.77	
MW-7R	08/16/16	28.41	24.92	8.27	8.27	0.00	20.14	Decrease	-1.23	
MW-7R	12/01/16	28.41	25.26	7.80	7.80	0.00	20.61	Decrease	-0.76	Black sediment in purge water; hydrocarbon odor
MW-7R	03/03/17	28.41	25.29	5.88	5.88	0.00	22.53	Rise	1.16	Cloudy, hydrocarbon odor, algae-like material
MW-8	05/10/12	28.01	14.16	7.74	7.74	0.00	20.27	NA	NA	2" Diameter well
MW-8	11/14/12	28.01	14.15	8.09	8.09	0.00	19.92	Decrease	-0.35	
MW-8	04/17/13	28.01	14.00	7.68	7.68	0.00	20.33	Rise	0.41	
MW-8	06/25/14	28.01	13.84	8.25	8.25	0.00	19.76	Decrease	-0.57	
MW-8	12/05/14	28.01	13.85	7.45	7.45	0.00	20.56	Rise	0.80	
MW-8	12/31/14	28.01	14.00	7.55	7.55	0.00	20.46	Decrease	-0.10	
MW-8	01/22/15	28.01	14.00	7.90	7.90	0.00	20.11	Decrease	-0.35	
MW-8	02/19/15	28.01	14.00	7.85	7.85	0.00	20.16	Rise	0.05	
MW-8	06/11/15	28.01	14.26	8.34	8.34	0.00	19.67	Decrease	-0.49	
MW-8	08/11/15	28.01	14.24	8.69	8.69	0.00	19.32	Decrease	-0.35	
MW-8	11/10/15	28.01	14.19	9.02	9.02	0.00	18.99	Decrease	-0.33	
MW-8	02/02/16	28.01	13.89	7.78	7.78	0.00	20.23	Rise	1.24	
MW-8	05/16/16	28.01	14.14	8.11	8.11	0.00	19.90	Decrease	-0.33	
MW-8	08/16/16	28.01	13.84	8.56	8.56	0.00	19.45	Decrease	-0.45	Turbidity reading flashed 1,000; grey, cloudy gw
MW-8	12/01/16	28.01	14.10	8.22	8.22	0.00	19.79	Decrease	-0.11	Grayish, hydrocarbon odor
MW-8	03/03/17	28.01	14.90	7.40	7.40	0.00	20.61	Rise	0.71	Cloudy; yellowish-brown

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)	Comments
MW-9	05/10/12	27.23	15.09	6.25	6.25	0.00	20.98	NA	2" Diameter well
MW-9	11/14/12	27.23	NM	NM	NM	NM	NA	NA	Not gauged nor sampled
MW-9	04/17/13	27.23	NM	NM	NM	NM	NA	NA	Not gauged nor sampled
MW-9	06/26/14	27.23	14.82	7.78	7.78	0.00	19.45	NA	NA
MW-9	12/05/14	27.23	14.84	7.10	7.10	0.00	20.13	Rise	0.68
MW-9	12/31/14	27.23	14.8	5.80	5.80	0.00	21.43	Rise	1.30
MW-9	01/22/15	27.23	14.8	6.45	6.45	0.00	20.78	Decrease	-0.65
MW-9	02/19/15	27.23	14.75	6.55	6.55	0.00	20.68	Decrease	-0.10
MW-9	06/11/15	27.23	15.06	7.59	7.59	0.00	19.64	Decrease	-1.04
MW-9	08/10/15	27.23	15.03	8.21	8.21	0.00	19.02	Decrease	-0.62
MW-9	11/10/15	27.23	15.03	8.76	8.76	0.00	18.47	Decrease	-0.55
MW-9	02/02/16	27.23	14.66	6.05	6.05	0.00	21.18	Rise	2.71
MW-9	05/16/16	27.23	14.91	6.95	6.95	0.00	20.28	Decrease	-0.90
MW-9	08/16/16	27.23	14.59	8.14	8.14	0.00	19.09	Decrease	-1.19
MW-9	12/01/16	27.23	16.78	7.48	7.48	0.00	19.75	Decrease	-0.53
MW-9	03/03/17	27.23	14.78	4.63	4.63	0.00	22.60	Rise	2.32
MW-10	05/10/12	27.45	13.12	6.49	6.49	0.00	20.96	NA	2" Diameter well
MW-10	11/14/12	27.45	13.12	7.31	7.31	0.00	20.14	Decrease	-0.82
MW-10	04/18/13	27.45	12.95	7.04	7.04	0.00	20.41	Rise	0.27
MW-10	06/26/14	27.45	12.86	7.86	7.86	0.00	19.59	Decrease	-0.82
MW-10	12/05/14	27.45	12.81	6.89	6.89	0.00	20.56	Rise	0.97
MW-10	12/31/14	27.45	12.95	5.80	5.80	0.00	21.65	Rise	1.09
MW-10	01/22/15	27.45	12.95	6.60	6.60	0.00	20.85	Decrease	-0.80
MW-10	02/19/15	27.45	12.95	6.75	6.75	0.00	20.70	Decrease	-0.15
MW-10	06/11/15	27.45	13.19	7.62	7.62	0.00	19.83	Decrease	-0.87
MW-10	08/10/15	27.45	13.16	8.19	8.19	0.00	19.26	Decrease	-0.57
MW-10	11/10/15	27.45	13.15	8.73	8.73	0.00	18.72	Decrease	-0.54
MW-10	02/02/16	27.45	12.81	6.22	6.22	0.00	21.23	Rise	2.51
MW-10	05/16/16	27.45	13.09	7.05	7.05	0.00	20.40	Decrease	-0.83
MW-10	08/16/16	27.45	12.81	8.09	8.09	0.00	19.36	Decrease	-1.04
MW-10	12/01/16	27.45	13.05	7.39	7.39	0.00	20.06	Decrease	-0.34
MW-10	03/02/17	27.45	13.50	5.05	5.05	0.00	22.40	Rise	2.00
MW-11R	05/10/12	28.92	23.87	8.02	8.02	0.00	20.90	NA	2" Diameter well
MW-11R	11/14/12	28.92	23.95	9.18	9.18	0.00	19.74	Decrease	-1.16
MW-11R	04/17/13	28.92	24.4	8.14	8.14	0.00	20.78	Rise	1.04
MW-11R	06/26/14	28.92	23.64	9.30	9.30	0.00	19.62	Decrease	-1.16
MW-11R	12/04/14	28.92	23.65	8.90	8.90	0.00	20.02	Rise	0.40
MW-11R	12/31/14	28.92	23.65	8.15	8.15	0.00	20.77	Rise	0.75
MW-11R	01/23/15	28.92	23.65	8.40	8.40	0.00	20.52	Decrease	-0.25
MW-11R	02/20/15	28.92	23.65	8.60	8.60	0.00	20.32	Decrease	-0.20
MW-11R	06/12/15	28.92	23.89	10.06	10.06	0.00	18.86	Decrease	-1.46
MW-11R	08/10/15	28.92	23.91	10.92	10.92	0.00	18.00	Decrease	-0.86
MW-11R	11/11/15	28.92	23.87	11.20	11.20	0.00	17.72	Decrease	-0.28
MW-11R	02/03/16	28.92	23.61	7.95	7.95	0.00	20.97	Rise	3.25
MW-11R	05/16/16	28.92	23.94	9.67	9.67	0.00	19.25	Decrease	-1.72
MW-11R	08/16/16	28.92	23.62	10.58	10.58	0.00	18.34	Decrease	-0.91
MW-11R	12/01/16	28.92	23.94	9.56	9.56	0.00	19.36	Rise	1.02
MW-11R	03/03/17	28.92	23.97	7.14	7.14	0.00	21.78	Rise	2.42

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)	Comments
MW-12	05/10/12	28.73	24.37	7.96	7.96	0.00	20.77	NA NA	2" Diameter well
MW-12	11/14/12	28.73	24.35	9.37	9.37	0.00	19.36	Decrease -1.41	
MW-12	04/17/13	28.73	24.30	9.10	9.10	0.00	19.63	Rise 0.27	
MW-12	06/26/12	28.73	24.33	8.86	8.86	0.00	19.87	Rise 0.24	
MW-12	12/04/14	28.73	24.35	9.95	9.95	0.00	18.78	Decrease -1.09	
MW-12	12/31/14	28.73	24.35	8.20	8.20	0.00	20.53	Rise 1.75	
MW-12	01/23/15	28.73	24.35	8.80	8.80	0.00	19.93	Decrease -0.60	
MW-12	02/16/15	28.73	24.35	9.50	9.50	0.00	19.23	Decrease -0.70	
MW-12	06/12/15	28.73	24.56	10.03	10.03	0.00	18.70	Decrease -0.53	
MW-12	08/10/15	28.73	24.59	10.82	10.82	0.00	17.91	Decrease -0.79	
MW-12	11/11/15	28.73	24.58	11.12	11.12	0.00	17.61	Decrease -0.30	
MW-12	02/03/16	28.73	24.31	8.14	8.14	0.00	20.59	Rise 2.98	
MW-12	05/16/16	28.73	24.59	9.51	9.51	0.00	19.22	Decrease -1.37	
MW-12	08/17/16	28.73	24.29	10.58	10.58	0.00	18.15	Decrease -1.07	
MW-12	12/01/16	28.73	24.62	10.20	10.20	0.00	18.53	Decrease -0.69	
MW-12	03/03/17	28.73	24.66	6.81	6.81	0.00	21.92	Rise 2.70	
MW-13	05/10/12	29.21	20.02	8.57	8.57	0.00	20.64	NA NA	2" Diameter well
MW-13	11/14/12	29.21	NM	NM	NM	NM	NA	NA NA	Not gauged nor sampled
MW-13	04/17/13	29.21	NM	NM	NM	NM	NA	NA NA	Not gauged nor sampled
MW-13	06/26/14	29.21	20.02	9.87	9.87	0.00	19.34	NA NA	
MW-13	12/04/14	29.21	20.00	9.25	9.25	0.00	19.96	Rise 0.62	
MW-13	12/31/14	29.21	NM	NM	NM	NM	NA	NA NA	Property closed, couldn't access well.
MW-13	01/23/15	29.21	20.00	11.20	11.20	0.00	18.01	Decrease -1.95	
MW-13	02/20/15	29.21	20.00	11.55	11.55	0.00	17.66	Decrease -0.35	
MW-13	06/12/15	29.21	20.28	9.39	9.39	0.00	19.82	Rise 2.16	
MW-13	08/10/15	29.21	20.32	9.87	9.87	0.00	19.34	Decrease -0.48	Turbidity flashed 0.0
MW-13	11/11/15	29.21	20.32	10.26	10.26	0.00	18.95	Decrease -0.39	
MW-13	02/03/16	29.21	20.02	9.29	9.29	0.00	19.92	Rise 0.97	
MW-13	05/16/16	29.21	20.32	9.04	9.04	0.00	20.17	Rise 0.25	
MW-13	08/17/16	29.21	19.98	11.71	11.71	0.00	17.50	Decrease -2.67	Cloudy purge water
MW-13	12/01/16	29.21	20.33	9.80	9.80	0.00	19.41	Decrease -0.76	Cloudy, brownish purge water
MW-13	03/02/17	29.21	20.33	7.71	7.71	0.00	21.50	Rise 1.33	Cloudy, gray purge water
MW-14	05/10/12	29.02	11.62	8.28	8.28	0.00	20.74	NA NA	2" Diameter well
MW-14	11/14/12	29.02	11.71	9.20	9.20	0.00	19.82	Decrease -0.92	
MW-14	04/17/13	29.02	11.60	8.45	8.45	0.00	20.57	Rise 0.75	
MW-14	06/26/14	29.02	11.38	9.34	9.34	0.00	19.68	Decrease -0.89	
MW-14	12/04/14	29.02	11.40	8.30	8.30	0.00	20.72	Rise 1.04	
MW-14	12/31/14	29.02	NM	NM	NM	NM	NA	NA NA	Property closed, couldn't access well.
MW-14	01/23/15	29.02	11.50	8.25	8.25	0.00	20.77	Rise 0.05	
MW-14	02/20/15	29.02	11.40	8.30	8.30	0.00	20.72	Decrease -0.05	
MW-14	06/12/15	29.02	10.67	9.18	9.18	0.00	19.84	Decrease -0.88	
MW-14	08/10/15	29.02	11.66	9.65	9.65	0.00	19.37	Decrease -0.47	
MW-14	11/11/15	29.02	11.68	10.07	10.07	0.00	18.95	Decrease -0.42	
MW-14	02/03/16	29.02	11.37	7.98	7.98	0.00	21.04	Rise 2.09	
MW-14	05/16/16	29.02	11.68	8.61	8.61	0.00	20.41	Decrease -0.63	
MW-14	08/17/16	29.02	11.36	9.62	9.62	0.00	19.40	Decrease -1.01	Hydrocarbon odor
MW-14	12/01/16	29.02	11.69	9.07	9.07	0.00	19.95	Decrease -0.46	Cloudy;Hydrocarbon odor
MW-14	03/02/17	29.02	11.69	7.29	7.29	0.00	21.73	Rise 1.32	Hydrocarbon odor, cloudy; brownish-yellow

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)	Comments
MW-15	05/10/12	28.53	29.70	7.90	7.90	0.00	20.63	NA NA	2" Diameter well
MW-15	11/14/12	28.53	NM	NM	NM	NM	NA	NA NA	Not gauged nor sampled
MW-15	04/17/13	28.53	NM	NM	NM	NM	NA	NA NA	Not gauged nor sampled
MW-15	06/26/14	28.53	29.39	9.85	9.85	0.00	18.68	NA NA	
MW-15	12/05/14	28.53	29.57	9.39	9.39	0.00	19.14	Rise 0.46	
MW-15	12/31/14	28.53	29.4	7.95	7.95	0.00	20.58	Rise 1.44	
MW-15	01/23/15	28.53	29.4	8.85	8.85	0.00	19.68	Decrease -0.90	
MW-15	02/20/15	28.53	29.4	9.05	9.05	0.00	19.48	Decrease -0.20	
MW-15	06/12/15	28.53	29.64	9.85	9.85	0.00	18.68	Decrease -0.80	
MW-15	08/10/15	28.53	29.69	10.38	10.38	0.00	18.15	Decrease -0.53	Turbidity flashed "0.0"
MW-15	11/11/15	28.53	29.68	11.38	11.38	0.00	17.15	Decrease -1.00	
MW-15	02/03/16	28.53	29.36	8.04	8.04	0.00	20.49	Rise 3.34	
MW-15	05/16/16	28.53	29.62	9.31	9.31	0.00	19.22	Decrease -1.27	
MW-15	08/17/16	28.53	29.32	10.98	10.98	0.00	17.55	Decrease -1.67	
MW-15	12/01/16	28.53	29.57	10.13	10.13	0.00	18.40	Decrease -0.82	
MW-15	03/02/17	28.53	29.69	7.80	7.80	0.00	20.73	Rise 1.51	Cloudy; yellowish
MW-16	05/10/12	28.52	29.38	7.86	7.86	0.00	20.66	NA NA	2" Diameter well
MW-16	11/14/12	28.52	29.37	8.92	8.92	0.00	19.60	Decrease -1.06	
MW-16	04/17/13	28.52	24.75	7.63	7.63	0.00	20.89	Rise 1.29	
MW-16	06/26/14	28.52	29.37	9.04	9.04	0.00	19.48	Decrease -1.41	
MW-16	12/05/14	28.52	29.4	8.20	8.20	0.00	20.32	Rise 0.84	
MW-16	12/31/14	28.52	29.4	7.65	7.65	0.00	20.87	Rise 0.55	
MW-16	01/23/15	28.52	29.4	8.45	8.45	0.00	20.07	Decrease -0.80	
MW-16	02/20/15	28.52	29.4	8.50	8.50	0.00	20.02	Decrease -0.05	
MW-16	06/12/15	28.52	29.67	9.33	9.33	0.00	19.19	Decrease -0.83	
MW-16	08/10/15	28.52	26.5	9.88	9.88	0.00	18.64	Decrease -0.55	
MW-16	11/11/15	28.52	29.63	10.34	10.34	0.00	18.18	Decrease -0.46	
MW-16	02/03/16	28.52	29.36	7.91	7.91	0.00	20.61	Rise 2.43	
MW-16	05/16/16	28.52	29.61	8.91	8.91	0.00	19.61	Decrease -1.00	
MW-16	08/17/16	28.52	29.35	9.81	9.81	0.00	18.71	Decrease -0.90	
MW-16	12/01/16	28.52	29.65	9.42	9.42	0.00	19.10	Decrease -0.51	
MW-16	03/02/17	28.52	29.69	7.45	7.45	0.00	21.07	Rise 1.46	
EW-14	05/10/12	28.89	24.80	8.15	8.15	0.00	20.74	NA NA	4" Diameter well
EW-14	11/14/12	28.89	NM	NM	NM	ND	NA	NA NA	Not Sampled and only gauged for LPH
EW-14	04/17/13	29.89	NM	NM	NM	ND	NA	NA NA	Not gauged nor sampled
EW-14	06/25/14	29.89	24.41	9.24	9.24	0.00	20.65	NA NA	
EW-14	12/05/14	29.89	NM	NM	NM	ND	NA	NA NA	Converted to an injection well
EW-14	12/31/14	29.89	NM	NM	NM	ND	NA	NA NA	
EW-14	01/23/15	29.89	NM	NM	NM	ND	NA	NA NA	
EW-14	02/20/15	29.89	NM	NM	NM	ND	NA	NA NA	
EW-14	06/11/15	29.89	NM	NM	NM	ND	NA	NA NA	
EW-14	08/10/15	29.89	NM	NM	NM	ND	NA	NA NA	
EW-14	11/11/15	29.89	NM	NM	NM	ND	NA	NA NA	
EW-14	02/03/16	29.89	NM	NM	NM	ND	NA	NA NA	
EW-14	05/16/16	29.89	NM	NM	NM	ND	NA	NA NA	Not gauged nor sampled

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
EW-15	05/10/12	28.66	24.50	8.06	8.06	0.00	20.60	NA	NA	4" Diameter well
EW-15	11/14/12	28.66	NM	NM	NM	ND	NA	NA	NA	Not Sampled and only gauged for LPH
EW-15	04/17/13	28.66	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
EW-15	06/25/14	28.66	24.14	9.03	9.03	0.00	19.63	NA	NA	
EW-15	12/05/14	28.66	NM	NM	NM	ND	NA	NA	NA	Converted to an injection well
EW-15	12/31/14	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	01/23/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	02/20/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	06/11/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	08/10/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	11/11/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	02/03/16	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	05/16/16	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-16	05/10/12	28.99	24.80	8.37	8.37	0.00	20.62	NA	NA	4" Diameter well
EW-16	11/14/12	28.99	NM	NM	NM	ND	NA	NA	NA	Not Sampled and only gauged for LPH
EW-16	04/17/13	28.99	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
EW-16	06/26/14	28.99	22.74	9.29	9.29	0.00	19.70	NA	NA	
EW-16	12/05/14	28.99	NM	NM	NM	ND	NA	NA	NA	Converted to an injection well
EW-16	12/31/14	28.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	01/23/15	28.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	02/20/15	28.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	06/11/15	28.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	08/10/15	28.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	11/11/15	28.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	02/03/16	28.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	05/16/16	28.99	NM	NM	NM	ND	NA	NA	NA	
EW-17	05/10/12	28.89	25.29	8.19	8.19	0.00	20.70	NA	NA	4" Diameter well
EW-17	11/14/12	28.89	NM	NM	NM	ND	NA	NA	NA	Not Sampled and only gauged for LPH
EW-17	04/17/13	28.89	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
EW-17	06/25/14	28.89	24.12	9.27	9.27	0.00	19.62	NA	NA	
EW-17	12/05/14	28.89	NM	NM	NM	ND	NA	NA	NA	Converted to an injection well
EW-17	12/31/14	28.89	NM	NM	NM	ND	NA	NA	NA	
EW-17	01/23/15	28.89	NM	NM	NM	ND	NA	NA	NA	
EW-17	02/20/15	28.89	NM	NM	NM	ND	NA	NA	NA	
EW-17	06/11/15	28.89	NM	NM	NM	ND	NA	NA	NA	
EW-17	08/10/15	28.89	NM	NM	NM	ND	NA	NA	NA	
EW-17	11/11/15	28.89	NM	NM	NM	ND	NA	NA	NA	
EW-17	02/03/16	28.89	NM	NM	NM	ND	NA	NA	NA	
EW-17	05/16/16	28.89	NM	NM	NM	ND	NA	NA	NA	
EW-18	06/25/14	28.47	14.74	8.91	8.91	0.00	19.56	NA	NA	4" Diameter well
EW-18	12/05/14	28.47	NM	NM	NM	ND	NA	NA	NA	Converted to an injection well
EW-18	12/31/14	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-18	01/23/15	28.47	NM	NM	NM	ND	NA	NA	NA	

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
EW-18	02/20/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-18	06/11/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-18	08/10/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-18	11/11/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-18	02/03/16	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-18	05/16/16	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-19	06/25/14	28.34	14.56	8.74	8.74	0.00	19.60	NA	NA	4" Diameter well
EW-19	12/05/14	28.34	NM	NM	NM	ND	NA	NA	NA	Converted to an injection well
EW-19	12/31/14	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-19	01/23/15	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-19	02/20/15	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-19	06/11/15	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-19	08/10/15	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-19	11/11/15	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-19	02/03/16	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-19	05/16/16	28.34	NM	NM	NM	ND	NA	NA	NA	
EW-20	06/25/14	28.52	24.2	8.90	8.90	0.00	19.62	NA	NA	4" Diameter well
EW-20	12/05/14	28.52	NM	NM	NM	ND	NA	NA	NA	Converted to an extraction well
EW-20	12/31/14	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-20	01/23/15	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-20	02/20/15	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-20	06/11/15	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-20	08/10/15	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-20	11/11/15	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-20	02/03/16	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-20	05/16/16	28.52	NM	NM	NM	ND	NA	NA	NA	
EW-21	06/26/14	29.09	24.54	9.75	9.75	0.00	19.34	NA	NA	4" Diameter well
EW-21	12/05/14	29.09	NM	NM	NM	ND	NA	NA	NA	Converted to an extraction well
EW-21	12/31/14	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-21	01/23/15	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-21	02/20/15	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-21	06/11/15	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-21	08/10/15	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-21	11/11/15	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-21	02/03/16	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-21	05/16/16	29.09	NM	NM	NM	ND	NA	NA	NA	
EW-22	06/26/14	28.47	23.86	8.91	8.91	0.00	19.56	NA	NA	4" Diameter well
EW-22	12/05/14	28.47	NM	NM	NM	ND	NA	NA	NA	Converted to an extraction well

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
EW-22	12/31/14	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	01/23/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	02/20/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	06/11/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	08/10/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	11/11/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	02/03/16	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	05/16/16	28.47	NM	NM	NM	ND	NA	NA	NA	
Summary of Average Groundwater Elevation Data										
	Date	Gradient and Groundwater Flow Direction		Average Groundwater Elevation (feet MSL)		Change in Average GW Elevation (feet)				
	05/10/12	0.002 SW		20.72		NA				
	11/14/12	0.004 NE		19.78		-0.94				
	04/17/13	0.005/ 0.012 WSW/NE		20.46		0.68				
	06/26/14	Varies		19.60		-0.85				
	12/05/14	Varies		20.15		0.55				
	12/31/14	Varies		21.24		1.10				
	01/23/15	Varies		20.35		-0.89				
	02/20/15	Varies		20.21		-0.14				
	06/12/15	Varies		19.61		-0.61				
	08/10/15	Varies		19.05		-0.56				
	11/11/15	Varies		18.51		-0.54				
	2/3/2016	Varies		20.91		2.40				
	5/16/2016	Varies		20.11		-0.80				
	8/16/2016	Varies		18.94		-1.17				
	12/1/2016	Varies		19.65		0.71				
	3/2/2017	Varies		21.84		2.18				
Notes:										
Top-of-Casing (TOC) elevations were surveyed by Virgil Chavez Land Surveying on May 10, 2012.										
MSL=Mean Sea Level										
NM = Not Measured										
NA = Not Applicable										
ND = Not Detected										

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
MW-2R	5/10/2012	57,000	9,400	6,500	1,100	5,100	380	<25	<25	1,100	310	30	<25	<25	96	51	<25	270	<25	ND
MW-2R	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	6/25/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	2/2/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	8/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4R	5/10/2012	3,300	3.3	17	180	824	89	<0.50	<0.50	<0.50	210	63	2.7	<0.50	<0.50	42	13	91	10	ND
MW-4R	11/14/2012	420	51	0.66	0.66	2.54	68	<0.50	<0.50	<0.50	3.0	<0.50	<0.50	<0.50	<0.50	47	3.9	7.8	9.1	ND
MW-4R	4/17/2013	2,000	190	140	46	155	62	<0.50	1.0	<0.50	28	7.4	<0.50	<0.50	<0.50	30	4.6	51	7.0	Di-isopropylether 0.33J
MW-4R	6/25/2014	740	55	0.37J	1.7	0.59J	46	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	13	2.3	27	3.0	ND
MW-4R	12/4/2014	2,000	160	1.3	4.7	12	150	<0.50	<0.50	<0.50	4.2	1.3	<0.50	<0.50	<0.50	70	18.0	140	11	ND
MW-4R	12/31/2014	1,200	13	21	3.1	340	57	<2.5	<2.5	<2.5	130	20	<5.0	<5.0	<5.0	12	5.8	5.5	<5.0	ND
MW-4R	1/22/2015	1,800	140	87	15	720	96	<2.5	<2.5	<2.5	180	11	<5.0	<5.0	<5.0	12	<5.0	8	<5.0	ND
MW-4R	2/19/2015	4,000	880	130	23	1,300	240	<2.5	<2.5	<2.5	270	21	<5.0	<5.0	<5.0	27	8.6	16	6	ND
MW-4R	6/11/2015	1,600	590	24	6.8	340	280	<2.5	<2.5	<2.5	65	6.3	<5.0	<5.0	<5.0	70.0	6.0	<5.0	10	ND
MW-4R	8/11/2015	1,200	360	<5.0	<5.0	130	200	<2.5	<2.5	<2.5	<5.0	<5.0	<5.0	<5.0	<5.0	62	<5.0	<5.0	<5.0	ND
MW-4R	11/10/2015	7,900	1,600	1,900	430	1,300	270	<5.0	<5.0	<5.0	360	77	<10	<10	<10	73	20	69	13	ND
MW-4R	2/2/2016	5,000	720	710	200	1,000	160	<10	<10	<10	210	42	<20	<20	<20	32	<20	26	<20	ND
MW-4R	5/16/2016	10,000	1,500	2,500	530	2,500	230	<10	<10	<10	290	63	<20	<20	<20	56	<20	47	<20	ND
MW-4R	8/16/2016	18,000	1,900	3,800	980	4,500	230	<10	<10	<10	600	120	<20	<20	<20	68	<20	99	<20	ND
MW-4R	12/2/2016	13,000	1,500	3,100	940	4,000	180	<5.0	<5.0	<5.0	550	110	<10	<10	<10	56	12	76	10	ND
MW-4R	3/3/2017	660	130	27	42	130	11	<0.50	<0.50	<0.50	26	5.0	<0.50	<0.50	<1.0	3.0	0.87	4.6	<0.50	ND
MW-5R	5/10/2012	33,000	150	2,700	2,500	11,100	680	<25	<25	<25	2,400	620	52	<25	<25	210	99	630	46	ND
MW-5R	11/14/2012	32,000	130	2,400	2,900	15,200	620	<5.0	<5.0	<5.0	3,600	720	<5.0	<5.0	<5.0	180	90	490	33	ND
MW-5R	4/17/2013	35,000	240	2,400	2,000	9,500	400	<5.0	<5.0	<5.0	2,200	510	<5.0	<5.0	<5.0	140	59	390	<5.0	Styrene 4.7J

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (ug/L)																		
MW-5R	6/25/2014	32,000	210	970	1,700	7,900	470	<5.0	<5.0	<5.0	2,200	400	40	<5.0	<5.0	120	55	330	20	ND
MW-5R	12/4/2014	32,000	1,400	3,700	2,100	9,500	720	<50	<50	<50	1,700	410	<100	<100	<100	170	<100	470	<100	ND
MW-5R	12/31/2014	47,000	1,000	5,900	2,100	14,000	890	<50	<50	<50	2,900	620	<100	<100	<100	160	<100	380	<100	ND
MW-5R	1/22/2015	45,000	1,200	8,900	2,300	15,000	870	<50	<50	<50	2,500	510	<100	<100	<100	160	<100	340	<100	ND
MW-5R	2/19/2015	50,000	1,600	11,000	2,600	17,000	760	<50	<50	<50	2,600	520	<100	<100	<100	150	<100	300	<100	ND
MW-5R	6/11/2015	51,000	1,800	7,600	4,200	23,000	1,000	<50	<50	<50	3,200	760	<100	<100	<100	220	<100	450	<100	ND
MW-5R	8/11/2015	39,000	1,200	4,100	2,900	17,000	590	<50	<50	<50	1,800	390	<100	<100	<100	100	<100	210	<100	ND
MW-5R	11/10/2015	48,000	1,800	7,700	3,800	24,000	700	<50	<50	<50	2,200	470	<100	<100	<100	110	<100	270	<100	ND
MW-5R	2/2/2016	58,000	1,100	9,300	2,700	18,000	640	<50	<50	<50	2,300	510	<100	<100	<100	92	<100	230	<100	ND
MW-5R	5/16/2016	30,000	2,000	7,800	1,300	8,900	640	<50	<50	<50	820	190	<100	<100	<100	85	<100	110	<100	ND
MW-5R	8/16/2016	62,000	2,400	14,000	3,800	20,000	690	<50	<50	<50	2,300	520	<100	<100	<100	120	<100	300	<100	ND
MW-5R	12/2/2016	63,000	1,100	13,000	4,100	24,000	670	<50	<50	<50	2,600	580	<100	<100	<100	<100	<100	320	<100	ND
MW-5R	3/3/2017	15,000	49	660	570 F1	3,700	310	<5.0	<5.0	<5.0	570	140	<5.0	<5.0	<10	53	17	73	<5.0	ND
MW-6R	5/10/2012	3,600	8.6	52	120	680	79	<0.50	<0.50	<0.50	210	67	16	<0.50	<0.50	20	25	50	9.9	ND
MW-6R	11/14/2012	900	2.4	7.1	83	131	30	<0.50	<0.50	<0.50	61	13	0.61	<0.50	<0.50	12	3.2	28	3.1	ND
MW-6R	4/17/2013	1,800	220	21	64	157	29	<0.50	<0.50	<0.50	60	14	<0.50	<0.50	<0.50	24	2.1	27	7.6	ND
MW-6R	6/25/2014	1,700	4.3	9.4	55	181	49	<0.50	<0.50	<0.50	72	13	2.7	<0.50	<0.50	17	3.4	32	4.5	ND
MW-6R	12/4/2014	3,700	73	38	79	810	160	<0.50	<0.50	<0.50	210	74	1.2	<0.50	<1.0	66	16	140	10	2-chlorotoluene 19
MW-6R	12/31/2014	1,800	5.0	22	9.0	250	240	<2.5	<2.5	<2.5	90	21	<5.0	<5.0	<5.0	66	14	42	11	ND
MW-6R	1/22/2015	2,000	110	27	9.7	390	260	<2.5	<2.5	<2.5	140	30	<5.0	<5.0	<5.0	59	13	9.2	13	ND
MW-6R	2/19/2015	2,700	54	53	18	730	230	<2.5	<2.5	<2.5	260	55	<5.0	<5.0	<5.0	47	13	11	12	ND
MW-6R	6/11/2015	1,600	12	46	32	620	120	<2.5	<2.5	<2.5	170	29	<5.0	<5.0	<5.0	30	9.4	17	8.7	ND
MW-6R	8/11/2015	1,700	22	91	60	580	69	<2.5	<2.5	<2.5	110	13	<5.0	<5.0	<5.0	18	<5.0	8.9	<5.0	ND
MW-6R	11/10/2015	1,400	23	140	61	520	100	<2.5	<2.5	<2.5	96	5.6	<5.0	<5.0	<5.0	19	6.2	9.1	6.1	ND
MW-6R	2/2/2016	560	8.7	81	20	160	6.3	<2.5	<2.5	<2.5	21	<2.5	<5.0	<5.0	<5.0	<2.5	<5.0	<5.0	<5.0	ND
MW-6R	5/16/2016	600	20	99	21	150	18	<0.50	<0.50	<0.50	21	2.4	<1.0	<1.0	<1.0	3.5	1.6	2.4	1.3	ND
MW-6R	8/16/2016	970	20	120	32	210	39	<0.50	<0.50	<0.50	26	3.1	<1.0	<1.0	<1.0	22	5.8	6.2	7.6	ND
MW-6R	12/2/2016	<50	<0.50	<0.50	<0.50	6	2.4	<0.50	<0.50	<0.50	3.6	<0.50	<1.0	<1.0	<1.0	0.98	<1.0	<1.0	<1.0	ND
MW-6R	3/2/2017	60	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
MW-7R	5/10/2012	160,000	14,000	42,000	3,900	26,700	660	<25	<25	<25	3,300	960	49	<25	<25	120	<25	370	26	ND
MW-7R	11/14/2012	84,000	15,000	26,000	3,700	19,300	480	<100	<100	<100	2,300	610	<100	<100	<100	120	48J	370	<100	ND
MW-7R	4/17/2013	160,000	17,000	45,000	4,500	22,300	350	<100	<100	<100	2,000	580	<100	<100	<100	98 J	<100	300	<100	ND

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (ug/L)																		
MW-7R	6/25/2014	240,000	18,000	38,000	3,900	21,100	630	<50	<50	<50	2,200	560	180	<50	<50	89	<50	270	<50	ND
MW-7R	12/4/2014	110,000	15,000	36,000	4,000	21,000	660	<50	<50	<50	2,400	630	<100	<100	<100	110	<100	320	<100	ND
MW-7R	12/31/2014	110,000	11,000	38,000	3,800	22,000	690	<250	<250	<250	2,100	560	<500	<500	<500	<250	<500	<500	<500	ND
MW-7R	1/22/2015	110,000	11,000	42,000	4,000	23,000	720	<250	<250	<250	2,100	520	<500	<500	<500	<250	<500	<500	<500	ND
MW-7R	2/19/2015	92,000	7,000	33,000	3,400	20,000	520	<250	<250	<250	1,900	460	<500	<500	<500	<250	<500	<500	<500	ND
MW-7R	6/11/2015	78,000	3,200	29,000	3,800	23,000	730	<250	<250	<250	2,100	560	<500	<500	<500	<250	<500	<500	<500	ND
MW-7R	8/11/2015	69,000	1,600	20,000	3,200	22,000	520	<250	<250	<250	1,700	400	<500	<500	<500	<250	<500	<500	<500	ND
MW-7R	11/10/2015	55,000	650	11,000	2,500	21,000	710	<250	<250	<250	2,100	530	<500	<500	<500	<250	<500	<500	<500	ND
MW-7R	2/2/2016	55,000	1,200	14,000	1,700	14,000	<500	<250	<250	<250	1,200	<250	<500	<500	<500	<250	<500	<500	<500	ND
MW-7R	5/16/2016	55,000	1,000	11,000	2,300	18,000	700	<100	<100	<100	2,100	550	<200	<200	<200	110	<200	230	<200	ND
MW-7R	8/16/2016	46,000	320	4,900	1,700	17,000	860	<100	<100	<100	2,200	550	<200	<200	<200	110	<200	230	<200	ND
MW-7R	12/2/2016	40,000	<250	7,300	1,600	16,000	560	<250	<250	<250	1,800	<500	450	<500	<500	<250	<500	<500	<500	ND
MW-7R	3/3/2017	57,000	820	5,800	870	15,000	550	<25	<25	<25	2,300	620	<25	<25	<50	83	40	170	<25	Acetone 280
MW-8	5/10/2012	2,700	15	20	5.3	34	72	<1.0	<1.0	<1.0	<1.0	1.4	<0.50	<1.0	<1.0	24	1.7	24	3.8	ND
MW-8	11/14/2012	790	14	3.0	0.98	5.83	14	<0.50	<0.50	<0.50	0.39J	0.41J	<0.50	<0.50	<0.50	13.00	0.8	13	2.2	tert-butylbenzene 0.38J
MW-8	4/17/2013	1,100	6.8	6.4	5.6	16.8	21	<0.50	<0.50	<0.50	1.9	1.6	<0.50	<0.50	<0.50	9.90	0.89	11	1.6	tert-Butylbenzene 0.25J
MW-8	6/25/2014	420	2.4	2.2	0.6	3.64 J	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.8	0.26 J	3.7	0.67	Styrene 0.91
MW-8	12/5/2014	1,900	22	52	11	63	46	<0.50	<0.50	<0.50	6.3	2.4	<1.0	<1.0	<1.0	20	2.3	21	4.1	ND
MW-8	12/31/2014	960	9.8	5.9	2.0	12	34	<0.50	<0.50	<0.50	<0.50	0.7	<1.0	<1.0	<1.0	12	1.4	13	2.3	ND
MW-8	1/22/2015	1,400	7.8	7.7	2.7	15	45	<0.50	<0.50	<0.50	<0.50	0.74	<1.0	<1.0	<1.0	14	1.4	14	2.4	ND
MW-8	2/19/2015	1,600	7.2	7.8	2.8	16	50	<0.50	<0.50	<0.50	<0.50	0.76	<1.0	<1.0	<1.0	15	1.6	16	2.6	ND
MW-8	6/11/2015	1,400	6.6	9.8	2.9	17	39	<0.50	<0.50	<0.50	<0.50	0.81	<1.0	<1.0	<1.0	17	1.7	16	3.1	ND
MW-8	8/11/2015	1,600	15	15	3.7	23	83	<0.50	<0.50	<0.50	<0.50	1.1	<1.0	<1.0	<1.0	22	2.1	23	3.5	ND
MW-8	11/10/2015	1,600	20	8.1	2.5	14	44	<0.50	<0.50	<0.50	<0.50	0.78	<1.0	<1.0	<1.0	20	1.9	20	3.4	ND
MW-8	2/2/2016	2,200	15	12.0	3.7	20	74	<0.50	<0.50	<0.50	<0.50	0.73	<1.0	<1.0	<1.0	18	1.7	19	3.0	ND
MW-8	5/16/2016	1,300	4.6	6.2	2.8	13	39	<0.50	<0.50	<0.50	<0.50	0.67	<1.0	<1.0	<1.0	14	1.3	14	2.4	ND
MW-8	8/16/2016	1,900	13	9.8	3.1	16	47	<0.50	<0.50	<0.50	<0.50	0.78	<1.0	<1.0	<1.0	21	1.9	20	3.9	ND
MW-8	12/2/2016	2,600	21	9.4	2.8	16	68	<0.50	<0.50	<0.50	<0.50	0.88	<1.0	<1.0	<1.0	24	2.5	25	4.3	ND
MW-8	3/3/2017	750	2.1	4.6	1.7	9.5	26	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	7.2	<0.50	7.7	0.75	Acetone 7.6
MW-9	5/10/2012	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-9	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-9	12/5/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-9	12/31/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<1.0	<1.0	ND

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (ug/L)																		
MW-9	1/22/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-9	2/19/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-9	6/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-9	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	1.7	<1.0	<1.0	<1.0	ND
MW-9	11/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	0.82	<1.0	<1.0	1.3	ND
MW-9	2/2/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	0.82	<1.0	<1.0	<1.0	ND
MW-9	5/16/2016	58	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	3.9	ND
MW-9	8/16/2016	100	<0.50	<0.50	<0.50	<1.0	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	3.2	<1.0	<1.0	3.9	ND
MW-9	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-9	3/3/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
MW-10	5/10/2012	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-10	11/14/2012	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-10	4/18/2013	530	20	110	19	97	2.6	<0.50	<0.50	<0.50	12	3.5	<0.50	<0.50	<0.50	0.65	0.23 J	2.1	<0.50	ND
MW-10	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-10	12/5/2014	530	5.4	100	28	170	7.4	<0.50	<0.50	<0.50	22	6.5	<1.0	<1.0	<1.0	1.5	<1.0	3.6	<1.0	ND
MW-10	12/31/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	1/22/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	2/19/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	6/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	11/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	1.5	ND
MW-10	2/2/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	5/16/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	8/16/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-10	3/2/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	ND
MW-11R	5/10/2012	22,000	<25	170	910	6,300	440	<25	<25	<25	2,500	760	58	40	<25	92	<25	240	<25	ND
MW-11R	11/14/2012	29,000	2.6	330	1,400	9,700	660	<5.0	<5.0	<5.0	4,000	950	<5.0	36	<5.0	170	88	450	27	ND
MW-11R	4/17/2013	22,000	<5.0	6.5	580	3,970	280	<5.0	<5.0	<5.0	2,600	720	<5.0	25	<5.0	110	61	320	<5.0	ND
MW-11R	6/25/2014	15,000	<5.0	<5.0	260	1,130	280	<5.0	<5.0	2,100	580	45	<5.0	<5.0	72	<5.0	<5.0	220	18	ND
MW-11R	12/4/2014	21,000	<50	340	520	5,100	320	<50	<50	2,100	680	<100	<50	<50	71	<100	<50	170	<100	Bromoform 11

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
MW-11R	12/31/2014	23,000	<50	240	480	5,400	350	<50	<50	2,300	680	<100	<50	<50	71	<100	<50	190	<100	ND
MW-11R	1/22/2015	20,000	<50	330	730	5,100	350	<50	<50	2,200	600	<100	<50	<50	80	<100	<50	200	<100	ND
MW-11R	2/20/2015	25,000	<50	580	980	6,700	380	<50	<50	2,500	670	<100	<50	<50	87	<100	<50	200	<100	ND
MW-11R	6/12/2015	29,000	180	1,400	1,600	9,900	470	<50	<50	2,900	770	<100	<50	<50	120	<100	<50	330	<100	ND
MW-11R	8/10/2015	38,000	660	4,600	2,000	14,000	500	<50	<50	2,800	670	<100	<50	<50	100	<100	<50	310	<100	ND
MW-11R	11/11/2015	27,000	1,700	1,500	1,000	6,300	420	<50	<50	1,900	460	<100	<50	<50	83	<100	<50	220	<100	ND
MW-11R	2/3/2016	25,000	970	1,600	900	5,800	280	<50	<50	1,700	430	<100	<50	<50	57	<100	<50	150	<100	ND
MW-11R	5/17/2016	26,000	1,500	3,700	1,000	7,100	400	<50	<50	1,600	440	<100	<50	<50	71	<100	<50	180	<100	ND
MW-11R	8/16/2016	15,000	2,200	1,900	900	2,500	250	<50	<50	800	210	<100	<50	<50	60	<100	<50	100	<100	ND
MW-11R	12/2/2016	13,000	2,900	2,000	660	2,400	220	<50	<50	<50	710	190	<100	<50	<100	<50	<100	<100	<100	ND
MW-11R	3/3/2017	4,500	750	160	190	570	73	<2.5	<2.5	<2.5	280	83	<2.5	<2.5	<5.0	24	12	47	<2.5	ND
MW-12	5/10/2012	2,700	600	4.7	160	207	26	<0.50	<0.50	<0.50	13	23.00	0.6	<0.50	<0.50	10	2.3	17	2.3	ND
MW-12	11/14/2012	1,600	470	2.1	140	63.4	26	<1.0	<1.0	<1.0	2.3	20.00	0.40 J	<1.0	<1.0	8.5	2.1	14	2.1	Tetrachloroethene 1.2
MW-12	4/17/2013	5,200	760	3.4	330	409	40	<2.0	1.2 J	<2.0	60	49.00	1.6 J	<2.0	1.8 J	22	3.7	36	7.4	ND
MW-12	6/25/2014	2,700	350	4.8	200	51	93	<1.0	<1.0	<1.0	11	28.0	4	<1.0	<1.0	17	3.9	23	3.2	ND
MW-12	12/4/2014	1,700	260	150	160	130	66	<0.50	<0.50	<0.50	12	21.0	<1.0	<1.0	<1.0	15	<5.0	20	2.3	ND
MW-12	12/31/2014	680	120	<2.5	74	10	34	<2.5	<2.5	<2.5	<2.5	6.7	<5.0	<5.0	<5.0	7.6	<5.0	11	<5.0	ND
MW-12	1/22/2015	950	110	<2.5	110	12	26	<2.5	<2.5	<2.5	<2.5	12.0	<5.0	<5.0	<5.0	9.4	<5.0	14	<5.0	ND
MW-12	2/19/2015	410	43	<0.50	30	4.0	7.7	1.4	1.0	<0.50	<0.50	3.4	<1.0	<1.0	<1.0	3.1	<1.0	4.2	<1.0	ND
MW-12	6/12/2015	470	17	54	19	68	5.2	4.5	2.0	<0.50	5.5	1.8	<1.0	<1.0	<1.0	1.5	<1.0	2.0	<1.0	ND
MW-12	8/10/2015	350	25	59	18	130	5.0	6.4	2.5	<0.50	13	2.9	<1.0	<1.0	<1.0	0.71	<1.0	1.0	<1.0	ND
MW-12	11/11/2015	270	8.7	21	8.3	58	4.2	4.0	2.8	<0.50	4.7	0.99	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	ND
MW-12	2/3/2016	1,100	130	26	9.0	74	4.1	3.2	2.8	<0.50	9.4	2.2	<1.0	<1.0	<1.0	4.2	<1.0	<1.0	1.6	ND
MW-12	5/17/2016	690	120	44	12	99	7.9	2.5	2.0	<0.50	13	3.4	<1.0	<1.0	<1.0	1.9	<1.0	1.2	<1.0	ND
MW-12	8/16/2016	1,100	580	8.5	6.2	39	5.6	2.9	2.2	<0.50	3.7	1.5	<1.0	<1.0	<1.0	4.9	<1.0	1.8	1.3	ND
MW-12	12/2/2016	3,200	1900	<5.0	12	<10	22	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<10	17	<10	<10	<10	ND
MW-12	3/3/2017	1,300	1,100	<5.0	5.4	<10	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	ND
MW-13	5/10/2012	50	<0.50	<0.50	<0.50	<1.5	<0.50	8.2	3.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-13	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<0.50	0.48 J	0.68	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-13	12/4/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	1.1	1.1	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	1/23/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	2.6	1.6	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (ug/L)																		
MW-13	2/20/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	2.3	1.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	6/12/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	5.5	2.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	8.2	2.8	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	11/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	7.2	2.9	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	2/3/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	4.0	2.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	5/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	2.9	1.8	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	8/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	3.0	1.6	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	1.8	1.1	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-13	3/2/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
MW-14	5/10/2012	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-14	11/14/2012	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-14	4/17/2013	60	<0.50	<0.50	2.9	15.7	1.0	<0.50	<0.50	<0.50	5.6	1.5	<0.50	<0.50	<0.50	0.27 J	<0.50	0.60	<0.50	ND
MW-14	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
MW-14	12/4/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<0.50	ND
MW-14	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	1/23/2015	4,700	2,300	91	160	560	<50	<25	<25	<25	200	<25	<50	<50	<50	<25	<50	<50	<50	ND
MW-14	2/20/2015	12,000	6,200	230	76	1,500	190	<25	<25	<25	490	75	<50	<50	<50	46	<50	<50	<50	ND
MW-14	6/12/2015	3,800	1,500	31	140	140	160	<25	<25	<25	68	38	<50	<50	<50	55	<50	<50	<50	ND
MW-14	8/10/2015	5,900	2,700	130	600	430	210	<25	<25	<25	400	83	<50	<50	<50	47	<50	70	<50	ND
MW-14	11/11/2015	3,300	920	25	280	360	140	<25	<25	<25	320	28	<50	<50	<50	<25	<50	<50	<50	ND
MW-14	2/3/2016	4,600	930	220	270	780	110	<5.0	<5.0	<5.0	280	44	<10	<10	<10	19	<10	33	<10	ND
MW-14	5/17/2016	37,000	3,800	7,000	1,800	7,700	490	<5.0	<5.0	<5.0	1,200	250	<10	<10	<10	81	27	150	11	ND
MW-14	8/17/2016	22,000	2,200	2,900	1,400	6,300	420	<100	<100	<100	1,200	280	<200	<200	<200	<100	<200	<200	<200	ND
MW-14	12/1/2016	2,100	220	54	93	290	220	<2.5	<2.5	<2.5	200	23	<5.0	<5.0	<5.0	33	14	32	7	ND
MW-14	3/2/2017	6,700	340	720	240	1,600	110	<0.50	<0.50	<0.50	300	78	1.1	<0.50	<1.0	19	7.9	43	<0.50	2-Hexanone 6.4 Acetone 15 MIBK 11
MW-15	5/10/2012	1,800	1.6	1.4	130	38	14	4.4	2.2	<0.50	6.2	23.0	3	<0.50	<0.50	22	3.2	28	7.0	ND
MW-15	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	6/25/2014	140	<0.50	<0.50	<0.50	<0.50	0.36 J	0.72	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.26 J	ND
MW-15	12/5/2014	260	1.6	34	10	57	3.7	1.2	<0.50	3.9	8	2.1	<1.0	<1.0	<1.0	<0.50	<1.0	1.1	<1.0	cis-1,2-Dichloroethene 1.5
MW-15	12/31/2014	440	9.9	110	17	110	5.3	1.2	<0.50	<0.50	16	3.7	<1.0	<1.0	<1.0	0.64	<1.0	1.7	<1.0	ND
MW-15	1/23/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	3.0	0.59	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-15	2/20/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	3.2	0.59	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (ug/L)																		
MW-15	6/12/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	4.7	0.97	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-15	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	5.2	1.1	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-15	11/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	5.1	1.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-15	2/3/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	5.8	1.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-15	5/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	5.4	0.97	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-15	8/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	6.5	1.3	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-15	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	4.7	0.94	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-15	3/2/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
MW-16	5/10/2012	180	<0.50	<0.50	<0.50	<1.5	<0.5	2.3	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<0.5	<0.5	5.8	ND
MW-16	11/14/2012	<50	<0.50	<0.50	<0.50	<1.5	<0.5	1.2	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	1.5	ND
MW-16	4/17/2013	2,900	3.3	1.1	230	11.3	59	0.35 J	<0.50	<0.50	3.4	26	<0.50	<0.50	<0.50	43	12	72	13	tert-Butylbenzene 0.42 J
MW-16	6/25/2014	100	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	0.53	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.0	ND
MW-16	12/5/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	12/31/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	1/23/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	0.61	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	2/20/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	0.5	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	6/12/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	0.5	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	0.56	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	11/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	1.1	0.74	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	2/3/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	0.94	0.92	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	5/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	1.9	1.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	8/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	1.8	1.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	1.2	1.1	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
MW-16	3/2/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	0.75	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
EW-14	5/10/2012	33,000	4,200	3,300	2,200	10,100	280	<25	<25	1,200	300	<25	<25	<25	73	<25	<25	190	<25	ND
EW-14	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	6/25/2014	19,000	5,200	80	290	558	270	<10	<10	79	26	<10	<10	<10	53	11	<10	100	8.4J	ND
EW-14	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (ug/L)																		
EW-14	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	5/10/2012	34,000	6,300	6,500	1,200	5,600	160	<25	<25	690	180	<25	<25	<25	41	<25	<25	110	<25	ND
EW-15	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	6/25/2014	35,000	8,000	850	630	1,700	460	<25	<25	420	110	<25	<25	<25	63	16J	<25	170	<25	ND
EW-15	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	5/10/2012	360	40	1.6	1.3	11.4	10	0.86	0.60	3.5	1.1	<0.50	<0.50	<0.50	9.3	<0.5	<0.50	5.8	1.6	ND
EW-16	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	6/25/2014	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
EW-16	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	5/10/2012	11,000	2,800	1,600	240	1,280	210	<25	<25	160	50	<25	<25	<25	52	<25	<27	140	<25	ND
EW-17	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	6/25/2014	12,000	1,900	100	330	500	720	<5.0	<5.0	200	64	19	<5.0	<5.0	79	23	<5.0	210	13	ND
EW-17	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (ug/L)																		
EW-17	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	6/25/2014	21,000	140	23	1,100	3,960	480	<2.5	<2.5	730	240	23	<2.5	<2.5	140	58	<2.5	370	23	ND
EW-18	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	6/25/2014	12,000	620	160	460	1,770	480	<1.0	<1.0	360	110	9.7	<1.0	<1.0	120	40	<1.0	310	22	ND
EW-19	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	6/25/2014	3,900	400	8.1	24	79	190	<1.0	2.7	12	4.2	3.5	<1.0	<1.0	82	9.6	<1.0	120	14	tert-Butylbenzene 0.94J
EW-20	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs	
		Analytical Results (ug/L)																			
EW-20	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	6/25/2014	60	0.46J	0.25J	0.31J	0.7	0.4J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.53	ND	
EW-21	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	6/25/2014	50	0.59	0.41J	1.1	1.76	0.55	<0.50	<0.50	0.35J	0.29J	<0.50	0.77	<0.50	0.31J	0.46J	<0.50	1.2	0.27J	Bromoform 8.0	
EW-22	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
INF	12/4/2014	270	<0.50	<0.50	<0.50	14	<1.0	<0.50	<0.50	<0.50	<0.50	6.8	<1.0	2.4	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
INF	1/2/2015	810	58	27	5.4	68	9.4	1.0	1.2	<0.50	3.1	18	<1.0	2.3	<1.0	0.85	<1.0	<1.0	<1.0	ND	
INF	1/22/2015	980	97	27	4.2	110	18	0.83	1.5	<0.50	1.5	39	<1.0	2.4	<1.0	0.75	2.5	<1.0	<1.0	ND	
INF	2/19/2015	750	91	15	7.2	78	1.9	0.71	0.98	<0.50	1.5	32	<1.0	2.0	<1.0	0.56	1.9	<1.0	<1.0	ND	
INF	3/25/2015	750	20	3.9	1.6	87	3.7	<0.50	<0.50	<0.50	0.9	39	<1.0	2.3	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
INF	4/23/2015	760	2.6	1.3	<0.50	100	5.5	<0.50	0.62	<0.50	<0.50	44	<1.0	2.0	<1.0	<0.50	2.2	<1.0	<1.0	ND	
INF	5/21/2015	370	0.57	<0.50	<0.50	25	1.6	0.67	<0.50	<0.50	<0.50	17	<1.0	1.7	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
INF	6/18/2015	630	4.0	2.7	<0.50	100	5.1	0.88	<0.50	<0.50	2.4	30	<1.0	2.1	<1.0	<0.50	1.6	<1.0	<1.0	ND	

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs	
																					Analytical Results (ug/L)
INF	7/16/2015	740	6.0	6.6	<0.50	170	9.1	0.84	<0.50	<0.50	9.3	39	<1.0	1.9	<1.0	<0.50	2	<1.0	<1.0	<1.0	ND
INF	8/27/2015	750	8.0	4.8	<0.50	100	17	1.00	<0.50	<0.50	<0.50	43	<1.0	1.6	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
INF	9/24/2015	950	20	8.9	<0.50	190	20	1.00	<0.50	<0.50	5.4	43	<1.0	1.7	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
INF	10/22/2015	910	33	13	<0.50	250	27	1.3	0.65	<0.50	51	30	<1.0	1.4	<1.0	<0.50	1.5	<1.0	<1.0	ND	
INF	11/19/2015	650	17	12	<0.50	160	15	0.89	<0.50	<0.50	20	22	<1.0	<1.0	<1.0	<0.50	1.2	<1.0	<1.0	ND	
INF	12/17/2015	370	2.5	2.0	<0.50	61	2.2	0.76	0.58	<0.50	2.1	21	<1.0	1.3	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
INF	1/28/2016	530	2.6	3.3	<0.50	86	2.9	0.63	<0.50	<0.50	4.4	20	<1.0	1.3	<1.0	<0.50	1	<1.0	<1.0	ND	
INF	2/1/2017	530	2.6	3.3	<0.50	86	2.9	0.63	<0.50	<0.50	4.4	20	<1.0	1.3	<1.0	<0.50	1	<1.0	<1.0	ND	
INF	2/25/2016	750	1.7	1.9	<0.50	95	2.8	0.84	0.57	<0.50	9.4	28	<1.0	1.4	<1.0	<0.50	1.2	<1.0	<1.0	ND	
INF	3/24/2016	600	10	7.4	<0.50	140	9.1	0.74	0.53	<0.50	11	23	<1.0	1.2	<1.0	<0.50	1.2	<1.0	<1.0	ND	
INF	4/22/2016	1,000	21	22	<0.50	230	16	0.61	<0.50	<0.50	14	44	<1.0	1.7	<1.0	<0.50	2.1	<1.0	<1.0	ND	
INF	5/17/2016	390	<0.50	<0.50	<0.50	37	3.4	0.88	0.56	<0.50	0.63	18	<1.0	1.2	<1.0	<0.50	1.2	<1.0	<1.0	ND	
INF	7/1/2016	360	9.9	3.9	<0.50	75	14	0.83	<0.50	<0.50	9.7	11	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
INF	7/28/2016	320	19.0	8.8	<0.50	69	13	0.73	<0.50	<0.50	6.2	9.7	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
INF	8/31/2016	330	30	11	<0.50	79	12	<0.50	<0.50	<0.50	5.5	7.2	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
INF	9/30/2016	310	49	18	<0.50	93	16	0.87	<0.50	<0.50	7.6	7.2	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
INF	10/26/2016	210	22	4.6	<0.50	43	5.1	<0.50	<0.50	<0.50	1.1	3.9	<1.0	<1.0	<0.50	<0.50	<1.0	<1.0	<1.0	ND	
INF	12/1/2016	54	<0.50	<0.50	<0.50	1.8	1.0	<0.50	<0.50	<0.50	<0.50	1.6	<0.50	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
INF	1/4/2017	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
INF	2/1/2017	86	1.3	0.55	<0.50	13	4.4	<0.50	<0.50	<0.50	<0.50	2.9	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
INF	3/3/2017	220	7.0	2.9	<0.50	28	<1.0	<0.50	<0.50	<0.50	1.3	3.1	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
INF	3/29/2017	<50	<0.50	<0.50	<0.50	<1.27	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND	
GAC	12/4/2014	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
GAC	1/2/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
GAC ¹	1/22/2015	990	89	24	3.3	<1.0	18	0.84	1.5	<0.50	1.4	40.0	1	2.4	<1.0	0.63	2.1	<1.0	<1.0	ND	
GAC	2/16/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
GAC	3/25/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
GAC	4/23/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
GAC	5/21/2015	--	--	--	--	<1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAC	6/18/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
GAC	7/16/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
GAC	8/27/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	
GAC	9/24/2015	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND	

**TABLE 4 -
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
TPHg and VOCs**

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Chloroform	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Other VOCs
		Analytical Results (ug/L)																		
EFF	5/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
EFF	7/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
EFF	7/28/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
EFF	8/31/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
EFF	9/30/2016	<50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.050	<1.0	<1.0	<1.0	ND
EFF	10/26/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
EFF	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
EFF	1/4/2017	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
EFF	2/1/2017	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
EFF	3/3/2017	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	ND
EFF	3/29/2017	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	ND
ESLs		NE	1.1	3,600	13	1,300	20	1,200	6.1	4,900	NE	NE	NE	2.3	NE	NE	NE	NE	NE	NE

Notes:

Only constituents with a concentration above laboratory detection limits are presented.

Total Petroleum Hydrocarbons as gasoline was analyzed using EPA Method 8015B.

Volatile Organic Compounds were analyzed using EPA Method 8260B.

ug/L = micrograms per liter

ESLs = Regional Water Quality Control Board, Groundwater Vapor Intrusion Human Health Risk Screening Levels, updated February 2016 (Revision 3)

BOLD indicates concentration exceeds the ESL.

NE = ESL not established.

< X = indicates not detected above laboratory detection limit of x (detection limits vary, see lab report).

F1 - indicates matrix spike and/or matrix spike duplicate recovery is outside acceptance limits.

J = Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.

¹ - The GAC sample collected on 1/22/15 was mistakenly collected from the INF sample port and therefore these results do not represent breakthrough of COCs in the lead GAC vessel.

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)										Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia						
MW-2R	5/10/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	6/25/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	2/2/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	8/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17.05																	
MW-4R	6/25/2014	4.90	1.4	0.91	0.50	<0.20	<0.10	9.70	4.90	<0.10	0.22	20.60	603.0	6.72	--	--	--
MW-4R	12/4/2014	25.00	7.8	1.10	730	<1.0	0.27	13	1.0	24	<0.20	21.99	1560.0	7.39	--	-71	*
MW-4R	12/30/2014	1.87	1.6	<1.0	80	<1.0	<0.020	22	1.4	0.47	<0.20	21.02	422.0	4.81	214.0	5	*
MW-4R	1/22/2015	1.60	1.6	<1.0	82	2.0	<0.020	27	1.6	<0.10	<0.20	20.10	544.0	4.72	32.4	83.0	6.44
MW-4R	2/19/2015	<0.20	1.7	<1.0	83	2.2	<0.020	32	<0.10	<0.10	<0.20	19.74	639.0	6.79	1.56	15.0	1.18
MW-4R	6/11/2015	<0.20	1.4	<1.0	64	2.0	0.024	32	<0.10	<0.10	1.5	20.25	639.0	6.90 ¹	0.28	196.0	3.62
MW-4R	8/11/2015	1.2	1.3	1.00	5.0	<1.0	0.061	33	0.43	0.77	4.5	21.72	570.0	6.58	2.64	-22.0	1.06
MW-4R	11/10/2015	50	2.0	4.0	6.1	<1.0	0.065	10	23	27	9.5	21.61	697.0	6.19	1,000.0	-58.0	6.97
MW-4R	2/2/2016	0.80	0.64	<1.0	26	<1.0	0.14	30	0.27	0.53	4.3	18.39	458.0	6.84	3.40	-15.0	4.14
MW-4R	5/16/2016	2.84	0.93	1.4	27	<1.0	0.028	21	1.90	0.94	3.9	19.91	468.0	6.84	8.24	-65.0	1.75
MW-4R	8/16/2016	6.7	--	--	1.2	<1.0	--	--	<0.10	7.2	5.0	20.82	521.0	6.80	5.34	-63.0	0.42
MW-4R	12/2/2016	5.6	--	--	4.4	<1.0	--	--	<0.10	6.0	4.4	20.33	502.0	7.41	0.00	-108.0	4.19
MW-4R	3/3/2017	1.1	--	--	75	<1.0	0.077	40	--	<0.10 HF	0.37	19.19	407.0	6.57	9.84	25.0	2.54
17.05																	
MW-5R	6/25/2014	<0.50	<0.50	1.5	<0.20	<0.20	<0.10	8.40	<0.50	<0.10	0.17	20.00	434.4	10.62	--	-230.5	*
MW-5R	12/4/2014	15.6	4.1	1.1	210	5.7	0.51	16	15	0.6	0.24	21.23	1200.0	7.39	--	-118.0	*
MW-5R	12/30/2014	19.3	4.8	1.3	560	7.5	0.42	55	16	3.3	<0.20	19.82	1540.0	4.54	64.7	-111.0	7.53
MW-5R	1/22/2015	9.74	2.8	<1.0	310	32	0.28	50	9.5	0.24	<0.20	18.67	1260.0	4.58	28.9	-95.0	5.67
MW-5R	2/19/2015	11.14	2.8	<1.0	210	17	0.32	47	11	0.14	0.22	18.39	1140.0	6.94	28.2	-109.0	2.91
MW-5R	6/11/2015	3.79	0.99	<1.0	1.5	18	0.15	35	2.8	0.99	0.28	20.40	460.0	--	49.9	-52.0	48.00
MW-5R	8/11/2015	3.8	0.88	<1.0	19	1.3	0.35	31	2.6	1.2	<0.20	22.91	739.0	6.92	50.1	-98.0	0.95

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)										Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia						
MW-5R	11/10/2015	3.4	0.8	<1.0	4.8	1.3	0.22	23	2.8	0.64	0.33	20.87	712.0	6.63	61.6	-72.0	4.81
MW-5R	2/2/2016	1.35	0.86	1.1	12	1.8	0.074	48	1.2	0.15	0.44	18.05	764.0	7.12	34.1	57.0	4.91
MW-5R	5/16/2016	1.40	0.66	1.9	12	1.4	0.21	26	0.88	0.52	1.10	21.05	794.0	7.24	17.8	-93.0	0.58
MW-5R	8/16/2016	2.0	--	--	<1.0	<1.0	--	--	1.3	0.71	0.45	21.77	728.0	7.08	10.3	-95.0	0.57
MW-5R	12/2/2016	2.2	--	--	<1.0	<1.0	--	--	0.5	1.70	0.43	20.50	728.0	7.17	0	-116.0	2.21
MW-5R	3/3/2017	<1.0	--	--	12	<1.0	0.37	34	--	0.23 HF	4.8	18.80	612.0	7.01	24.80	1.0	1.56
12.00																	
MW-6R	6/25/2014	2.9	1.3	0.71	<0.20	<0.20	<0.10	12	2.9	<0.10	0.45	20.20	530.7	6.87	--	-114.1	*
MW-6R	12/4/2014	2.84	3.1	<1.0	150	3.4	0.21	26	2.5	0.34	0.24	21.77	909.0	7.24	--	-66.0	*
MW-6R	12/30/2014	<0.20	1.2	3.7	250	56	4.1	33	<0.10	<0.10	7.2	20.32	971.0	4.80	34.2	47.0	6.99
MW-6R	1/22/2015	<0.20	2.7	1	200	32	0.93	74	<0.10	<0.10	2.1	19.70	929.0	4.55	0.4	93.0	5.19
MW-6R	2/19/2015	<0.20	2.2	1.3	270	24	1.4	69	<0.10	<0.10	4.6	19.42	1050.0	6.72	0.15	80.0	2.16
MW-6R	6/11/2015	0.73	0.93	1.5	350	2.2	1.6	44	0.73	<0.10	1.8	21.56	975.0	7.03 ¹	2.05	121.0	2.98
MW-6R	8/11/2015	0.91	1.1	1.1	240	1.4	1.7	43	0.91	<0.10	0.69	23.96	678.0	5.89	22.1	101.0	1.04
MW-6R	11/10/2015	<0.50	1.4	<1.0	270	2.8	0.88	39	<0.10	<0.10	0.43	22.77	823.0	5.65	14.6	124.0	0.58
MW-6R	2/2/2016	<0.20	1.6	4.4	540	<1.0	1.80	36	<0.10	<0.10	6.9	18.16	1180.0	5.31	2.91	195.0	3.44
MW-6R	5/16/2016	0.52	1.2	3.8	400	<1.0	11	27	0.52	<0.10	14	22.05	822.0	4.82	1.89	194.0	0.0
MW-6R	8/16/2016	<0.50	--	--	150	<1.0	--	--	<0.10	<0.10	1.6	23.36	485.0	5.72	3.96	113.0	0.83
MW-6R	12/2/2016	<1.0	--	--	99	<1.0	--	--	<0.10	<0.10	0.58	19.94	368.0	5.39	0.0	166.0	2.76
MW-6R	3/2/2017	<1.0	--	--	120	<1.0	5.1	23	--	<0.10 HF	7.3	18.83	522.0	5.96	36.1	180.0	4.29
12.00																	
MW-7R	6/25/2014	35	3.4	2	<0.20	<0.20	<0.10	<2.0	35	<0.10	0.39	19.60	774.0	6.61	--	-87.2	*
MW-7R	12/4/2014	29	3	<1.0	28	<1.0	0.16	<0.1	<0.10	29	0.5	20.62	695.0	7.13	--	-78.0	*
MW-7R	12/30/2014	15.2	3.3	<1.0	250	<1.0	0.13	28	3.2	12	<0.20	19.56	777.0	5.00	20.9	-41.0	6.65
MW-7R	1/22/2015	18.56	3.9	<1.0	330	10	0.038	31	18	0.56	0.34	18.69	1050.0	4.62	11.1	-37.0	4.82
MW-7R	2/19/2015	17	3.5	<1.0	330	10	0.1	27	14	3	<0.20	18.53	986.0	6.54	21.1	-51.0	1.29
MW-7R	6/11/2015	19.9	2.9	1.7	350	2.7	<0.020	31	15	4.9	1.0	22.96	943.0	6.14 ¹	11.9	-24.0	1.89
MW-7R	8/11/2015	8.9	2.1	1.7	270	3	0.083	25	4.5	4.4	1.2	22.57	850.0	6.01	8.07	-20.0	0.95
MW-7R	11/10/2015	24	1.8	2.1	190	3.8	0.025	24	24	0.35	1.5	22.08	716.0	5.87	49.5	1.0	0.34
MW-7R	2/2/2016	1.9	2.0	1.8	200	13	<0.020	34	1.9	<0.10	1.2	17.96	737.0	6.37	42.9	170.0	3.27
MW-7R	5/16/2016	3.22	2.7	2.5	340	24	<0.020	23	3.1	0.12	1.3	20.41	947.0	6.54	25.5	-17.0	0.0
MW-7R	8/16/2016	4.6	--	--	33	4.6	--	--	3.5	1.1	0.94	21.97	499.0	6.60	58.4	-38.0	0.07
MW-7R	12/2/2016	3.9	--	--	1	<1.0	--	--	1.5	2.4	0.86	20.67	484.0	6.81	9.18	-71.0	1.51
MW-7R	3/3/2017	2.8	--	--	8.6	5.7	0.58	20	--	0.27 HF	2.5	18.16	635.0	6.84	34.20	-72.0	2.19

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)										Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia						
9																	
MW-8	6/25/2014	6.1	1.1	0.71	<0.20	<0.20	<0.10	4.1	6.1	<0.10	0.34	22.60	444.9	6.77	--	-112.0	*
MW-8	12/5/2014	5.6	1	<1.0	<1.0	<1.0	0.83	1.7	0.7	4.9	0.24	22.73	321.0	7.20	--	-96.0	*
MW-8	12/30/2014	8.3	0.89	<1.0	<1.0	<1.0	0.2	12	3.1	5.2	<0.20	19.67	328.0	4.98	334.0	-40.0	6.2
MW-8	1/22/2015	7.8	0.83	<1.0	<1.0	<1.0	0.18	12	3	4.8	<0.20	19.86	400.0	4.68	259.0	-49.0	4.6
MW-8	2/19/2015	14	1	1.5	2.1	<1.0	0.14	13	8	6	0.26	19.85	401.0	6.97	366.0	-66.0	4.53
MW-8	6/11/2015	21	1.5	1.7	2.4	<1.0	0.032	12	9	12	0.28	0.93	240.0	6.65 ¹	249.0	-88.0	2.35
MW-8	8/11/2015	29	1.7	3	<1.0	<1.0	0.25	1.2	10	19	0.28	18.82	313.0	8.18	477.0	-150.0	5.93
MW-8	11/10/2015	81	1.8	6.5	<1.0	<1.0	0.044	2.7	63	18	0.3	21.90	462.0	6.56	805.0	-96.0	7.06
MW-8	2/2/2016	39	1.6	3.5	<1.0	<1.0	<0.020	8.3	28	11	0.33	18.01	402.0	6.93	453.0	-117.0	5.99
MW-8	5/16/2016	21	1.3	1.4	<1.0	<1.0	<0.020	9.4	1.0	20	0.35	24.08	261.0	7.00	1000.0	-151.0	2.01
MW-8	8/16/2016	49	--	--	<1.0	<1.0	--	--	31.0	18	0.20	24.81	264.0	6.91	990.0	-98.0	0.00
MW-8	12/2/2016	22	--	--	<1.0	<1.0	--	--	12.0	10	<0.20	20.56	353.0	6.76	127.0	-33.0	9.06
MW-8	3/3/2017	15	--	--	2.6	<1.0	0.032	20	--	1.0 HF	<0.20	18.59	383.0	6.86	166.0	46	3.60
0.39 2.56																	
MW-9	6/26/2014	44	10	4	0.5	<0.20	<0.10	28	44	<0.10	0.04	19.60	495.5	6.71	--	142.3	*
MW-9	12/5/2014	51	9.7	4.6	4.1	<1.0	0.075	38	51	<0.10	<0.20	19.91	456.0	6.94	--	43.0	*
MW-9	12/30/2014	5.20	0.95	1.1	3.2	<1.0	0.06	35	5.2	<0.10	<0.20	18.66	401.0	4.93	557.0	151.0	6.82
MW-9	1/22/2015	9.40	1.3	1	3	<1.0	0.057	42	9.4	<0.10	<0.20	18.40	478.0	4.67	441.0	132.0	5.55
MW-9	2/19/2015	66	5.3	5.7	4.1	<1.0	0.088	47	66	<0.10	<0.20	18.67	490.0	7.11	816.0	55.0	4.12
MW-9	6/11/2015	45.16	4.7	3.6	12	<1.0	<0.020	33	45	0.16	<0.20	25.29	162.0	6.92 ¹	814.0	84.0	5.54
MW-9	8/10/2015	38	4.1	3.2	3.4	<1.0	0.063	52	37	1.2	<0.20	22.15	365.0	7.23	611.0	111.0	3.89
MW-9	11/10/2015	23	4	1.8	<1.0	<1.0	0.064	87	22	0.93	<0.20	22.14	138.0	6.82	956.0	71.0	4.75
MW-9	2/2/2016	22	1.8	2.7	18	<1.0	0.038	63	22	<0.10	<0.20	18.23	364.0	7.08	899.0	135.0	7.37
MW-9	5/16/2016	8.22	1.4	1.1	25	<1.0	<0.020	36	8.1	0.12	0.20	19.98	402.0	7.19	1000.0	75.0	2.05
MW-9	8/16/2016	66.00	--	--	16	<1.0	--	--	65.0	0.86	<0.20	21.89	387.0	7.15	788.0	57.0	0.00
MW-9	12/1/2016	25.00	--	--	180	<100	--	--	25.0	<0.10 HF	<0.20	20.06	468.0	6.65	157.0	134.0	4.00
MW-9	3/3/2017	2.6	--	--	71	1.6 H	0.033	40	--	<0.10 HF	<0.20	16.08	462.0	7.30	192.0	123.0	5.48
0.39 2.56																	
MW-10	6/26/2014	42	0.65	4.5	2.1	<0.20	0.4	11	42	<0.10	<0.03	20.30	306.7	6.24	--	131.3	*

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)										Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia						
MW-10	12/5/2014	<0.20	<0.020	<1.0	10	<1.0	0.021	14	<0.10	<0.10	<0.20	20.80	271.0	7.35	--	73.0	*
MW-10	12/30/2014	3.7	0.2	<1.0	12	<1.0	<0.020	13	3.7	<0.10	<0.20	18.90	292.0	4.73	147.0	127.0	8.73
MW-10	1/22/2015	5.3	0.18	<1.0	12	<1.0	0.032	13	5.3	<0.10	<0.20	18.88	306.0	4.74	414.0	192.0	5.11
MW-10	2/19/2015	35	0.47	3.5	12	<1.0	0.05	13	35	<0.10	<0.20	18.59	303.0	6.80	936.0	133.0	4.72
MW-10	6/11/2015	67.11	0.82	5.4	11	<1.0	<0.020	19	67	0.11	<0.20	21.99	0.0	6.60 ¹	34.1	115.0	6.23
MW-10	8/10/2015	40	0.59	4.3	7.6	<1.0	0.035	28	40	<0.10	<0.20	21.72	272.0	6.79	1000.0	129.0	3.92
MW-10	11/10/2015	43	0.67	4.5	25	<1.0	0.024	32	43	<0.10	<0.20	21.56	242.0	6.77	0.0	133.0	6.00
MW-10	2/2/2016	21	0.28	2.6	27	<1.0	<0.020	31	21	<0.10	<0.20	17.41	234.0	6.99	622.0	131.0	6.08
MW-10	5/16/2016	4.2	0.21	1.3	220	<1.0	0.049	27	4.2	<0.10	0.20	21.16	512.0	7.00	809.0	99.0	2.17
MW-10	8/16/2016	40.0	--	--	230	<1.0	--	--	40.0	0.11	<0.20	23.24	623.0	6.89	0.0	63.0	0.00
MW-10	12/1/2016	15.0	--	--	190	<1.0	--	--	15.0	<0.10 HF	<0.20	21.44	625.0	6.65	149.0	133.0	4.99
MW-10	3/2/2017	6.9	--	--	9.2	<1.0	<0.020	13	--	<0.10 HF	<0.020	17.76	184.0	6.68	163.0	163.0	8.53
MW-11R	6/26/2014	120	2	10	0.66	<0.20	<0.10	<2.0	120	<0.10	0.03	18.70	153.3	7.01	--	-80.3	*
MW-11R	12/4/2014	0.91	0.78	<1.0	1.4	<1.0	0.14	4.2	<0.1	0.91	<0.20	19.78	185.0	7.14	--	-46.0	*
MW-11R	12/31/2014	13	1.6	1.3	2.4	<1.0	0.089	6.4	4.4	8.6	<0.20	17.90	288.0	5.27	1000.0	-32.0	9.39
MW-11R	1/23/2015	20	1.3	1.3	<1.0	<1.0	0.027	2.8	8	12	<0.20	16.10	223.0	5.78	0.0	162.0	10.15
MW-11R	2/20/2015	3.1	0.55	<1.0	<1.0	<1.0	0.11	2	2	1.1	<0.20	17.63	161.0	6.98	131.0	-35.0	3.18
MW-11R	6/12/2015	1.4	0.81	<1.0	<1.0	<1.0	0.15	1.2	<0.10	1.4	<0.20	20.51	186.0	6.94 ¹	2.46	-14.0	1.83
MW-11R	8/10/2015	2.2	1.5	<1.0	1.3	<1.0	0.12	1.1	<0.10	2.2	<0.20	20.17	332.0	5.94	7.25	-45.0	1.53
MW-11R	11/11/2015	2.9	1.8	<1.0	<1.0	<1.0	0.11	6.6	0.40	2.5	<0.20	20.28	341.0	6.69	45.3	-61.0	4.08
MW-11R	2/3/2016	4.1	1.6	<1.0	2.1	<1.0	<0.020	5.7	1.3	2.8	0.20	17.62	293.0	6.75	7.88	-58.0	3.67
MW-11R	5/17/2016	3.9	1.5	<1.0	2.1	<1.0	<0.020	6.6	<0.10	3.9	0.22	19.18	285.0	6.87	9.86	-85.0	1.65
MW-11R	8/17/2016	4.3	--	--	17	<1.0	--	--	0.40	3.9	<0.20	21.16	430.0	6.62	9.88	-42.0	0.0
MW-11R	12/2/2016	9.5	--	--	14	<0.10	--	--	<0.10	11	<0.20	19.06	642.0	6.73	0	-86.0	2.68
MW-11R	3/3/2017	2.5	--	--	19	<1.0	<0.020	22	--	2.2 HF	<0.20	18.01	507.0	6.65	31.8	14.0	2.63
MW-12	6/26/2014	15	1.7	2.2	2	<0.20	<0.10	2.2	15	<0.10	<0.03	19.20	544.4	6.39	--	5.4	*
MW-12	12/4/2014	0.69	1	<1.0	29	<1.0	<0.020	10	0.32	0.37	<0.20	20.13	393.0	7.05	--	26.0	*
MW-12	12/31/2014	6.21	1.5	<1.0	13	<1.0	0.028	8.6	5.7	0.51	<0.20	18.71	362.0	5.32	136.0	91.0	8.40
MW-12	1/23/2015	7.3	1.5	<1.0	12	<1.0	<0.020	9.3	6.2	1.1	<0.20	17.75	425.0	4.72	789.0	19.0	6.54
MW-12	2/19/2015	96.91	3.1	8.0	2.3	<1.0	0.034	7.6	96	0.91	<0.20	19.07	422.0	6.75	567.0	8.0	4.56
MW-12	6/12/2015	1.1	1.3	<1.0	2.2	<1.0	0.035	9.3	<0.10	1.1	2.20	19.94	522.0	6.75 ¹	271.0	27.0	3.93

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Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)										Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia						
MW-12	8/10/2015	0.85	1.1	<1.0	<1.0	<1.0	0.035	15	<0.10	0.78	<0.20	20.70	536.0	6.03	7.09	-8.0	3.41
MW-12	11/11/2015	1.0	1.4	<1.0	<1.0	<1.0	0.033	9.8	<0.10	0.91	<0.20	20.35	526.0	6.67	9.82	-7.0	0.43
MW-12	2/3/2016	1.2	1.4	<1.0	<1.0	<1.0	<0.020	7.4	0.28	0.92	<0.20	18.59	523.0	6.68	0.93	3.0	3.41
MW-12	5/17/2016	0.98	1.4	<1.0	<1.0	<1.0	<0.020	12.0	<0.10	0.98	<0.20	20.47	512.0	6.71	0.0	-20.0	0.0
MW-12	8/17/2016	0.87	--	--	<1.0	<1.0	--	--	<0.10	1.10	<0.20	20.64	564.0	6.54	0.0	5.0	0.32
MW-12	12/2/2016	1.20	--	--	<1.0	<1.0	--	--	0.10	1.10	<0.20	19.83	557.0	6.67	0.0	-27.0	2.34
MW-12	3/3/2017	2.1	--	--	<1.0	<1.0	<0.020	2.4	--	2.1 HF	<0.20	17.79	513.0	6.56	3.81	-12.0	2.57
MW-13	6/26/2014	3.8	<0.5	1.2	1.2	<0.20	0.14	10	3.8	<0.10	0.04	18.50	242.2	6.62	--	124.4	*
MW-13	12/4/2014	170.19	2.7	11	17	<1.0	0.19	13	170	0.19	0.27	19.85	308.0	6.80	--	55.0	*
MW-13	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	1/23/2015	23	0.71	2.3	6.8	<1.0	0.081	12	23	<0.10	<0.20	17.66	291.0	6.75	808.0	149.0	9.02
MW-13	2/20/2015	29	1.2	3.1	4.4	<1.0	0.082	12	29	<0.10	<0.20	18.72	366.0	6.84	475.0	181.0	5.41
MW-13	6/12/2015	53.14	1.8	7.4	<1.0	5.6	<0.020	12	53	0.14	<0.20	21.73	5.0	--	17.5	86.0	6.04
MW-13	8/10/2015	29	0.95	3.7	38	1.2	0.086	16	29	<0.10	<0.20	20.25	643.0	6.51	0.0	171.0	7.91
MW-13	11/11/2015	2.7	1.2	21	130	6.0	0.086	24	2.7	<0.10	<0.20	16.61	859.0	6.76	890.0	114.0	9.93
MW-13	2/3/2016	3.3	0.66	6.1	170	4.8	0.040	26	2.0	1.3	<0.20	18.21	904.0	6.81	0.0	159.0	5.55
MW-13	5/17/2016	20	0.59	4.5	190	3.6	0.041	25	20.0	<0.10	<0.20	18.09	794.0	6.93	0.0	68.0	3.17
MW-13	8/17/2016	78	--	--	210	1.9	--	--	78.0	0.3	<0.20	23.74	505.0	6.92	325.0	68.0	0.00
MW-13	12/1/2016	6.0	--	--	240	<1.0	--	--	6.0	<0.10 HF	<0.20	18.83	911.0	6.74	--	97.0	3.92
MW-13	3/2/2017	11	--	--	200	<1.0	0.037	21	--	<0.10 HF	<0.20	18.57	871.0	6.82	146.0	118.0	3.68
MW-14	6/26/2014	28	1.2	2.3	7.7	<0.20	<0.10	15	28	<0.10	0.06	17.70	251.6	6.69	--	142.2	*
MW-14	12/4/2014	26.19	1.1	1.8	49	<1.0	0.046	20	26	0.19	<0.20	19.54	187.0	6.70	--	44.5	*
MW-14	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	1/23/2015	29.14	1	2.2	6.2	<1.0	<0.020	13	29	0.14	<0.20	17.58	385.0	6.86	503.0	187.0	10.3
MW-14	2/20/2015	23.19	1.9	1.9	21	<1.0	<0.020	12	23	0.19	<0.20	17.78	617.0	6.82	246.0	191.0	5.99
MW-14	6/12/2015	34.1	1.8	2.7	<1.0	<1.0	<0.020	11	28	6.1	<0.20	25.76	0.00	--	9.53	8.0	6.18
MW-14	8/10/2015	27.3	1.7	2.5	<1.0	<1.0	0.031	11	21	6.3	<0.20	19.15	1.0	7.50	10.7	28.0	8.84
MW-14	11/11/2015	7.0	1.6	<1.0	<1.0	<1.0	0.035	9.7	3.6	3.4	<0.20	16.33	0.0	7.83	23.3	-32.0	9.70
MW-14	2/3/2016	28.4	1.3	2.1	8.1	<1.0	<0.020	9.3	26	2.4	<0.20	16.59	17.0	7.82	766.0	92.0	8.79
MW-14	5/17/2016	11.0	1.5	1.3	4.5	<1.0	<0.020	5.6	4.8	6.2	<0.20	17.50	0.0	7.62	12.5	-93.0	5.42
MW-14	8/17/2016	28.0	--	--	<1.0	<1.0	--	--	19.0	8.9	<0.20	21.45	749.0	7.27	513	-90.0	0.00

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument						
		(mg/l)											Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia							
MW-14	12/1/2016	7.9	--	--	3.3	<1.0	--	--	6.0	1.9 HF	<0.20	17.72	747.0	6.99	--	-109.0	7.13	
MW-14	3/3/2017	12	--	--	15	<1.0	<0.020	14	--	0.32 HF	<0.20	17.66	316.0	7.02	368	62.0	3.86	
MW-15	6/26/2014	54	0.77	5.2	<0.20	<0.20	<0.10	3.9	54	<0.10	<0.03	19.00	260.1	6.87	--	-76.1	*	
MW-15	12/5/2014	1.3	0.36	<1.0	<1.0	<1.0	0.095	5.5	<0.10	1.3	<0.20	19.95	250.0	7.32	--	-59.0	*	
MW-15	12/31/2014	0.78	0.22	<1.0	<1.0	<1.0	0.082	5.3	<0.10	0.78	<0.20	19.93	208.0	5.38	24.2	-41.0	7.82	
MW-15	1/23/2015	29.8	0.58	3.3	<1.0	<1.0	0.035	16	26	3.8	<0.20	19.89	329.0	7.09	932.0	-3.0	7.65	
MW-15	2/20/2015	28.6	0.6	3.3	<1.0	<1.0	0.029	23	25	3.6	<0.20	19.81	425.0	6.99	551.0	8.0	5.02	
MW-15	6/12/2015	55.4	0.8	5	4.3	4.3	<0.020	42	54	1.4	<0.20	20.88	299.0	--	575.0	119.0	3.12	
MW-15	8/10/2015	46	0.72	5.3	13	1.6	0.036	50	45	0.77	<0.20	21.39	600.0	6.69	0.0	100.0	5.62	
MW-15	11/11/2015	10	0.40	1.3	25	1.5	0.059	57	9.5	0.48	<0.20	20.47	638.0	6.97	1000.0	72.0	5.91	
MW-15	2/3/2016	42.26	0.74	4.6	20	<1.0	<0.020	60	42.0	0.26	<0.20	18.42	665.0	7.18	721.0	142.0	8.84	
MW-15	5/17/2016	31	0.98	3.5	23	<1.0	<0.020	62	31.0	<0.10	<0.20	20.00	634.0	7.21	490.0	47.0	4.44	
MW-15	8/17/2016	40	--	--	32	<1.0	--	--	40.0	0.41	<0.20	19.09	715.0	7.15	808.0	68.0	1.50	
MW-15	12/1/2016	24	--	--	38	<1.0	--	--	24.0	<0.10 HF	<0.20	19.67	636.0	7.27	114.0	134.0	4.38	
MW-15	3/2/2017	160	--	--	3.9	<1.0	0.030	94	--	0.40 HF	<0.20	18.73	454.0	7.02	767.0	172.0	3.82	
MW-16	6/26/2014	<0.5	<0.5	<0.5	<0.20	<0.20	<0.10	3.1	<0.5	<0.10	<0.03	18.30	401.5	6.68	--	-70.7	*	
MW-16	12/5/2014	2.64	0.3	<1.0	<1.0	<1.0	0.037	6.5	2.5	0.14	<0.20	19.01	330.0	7.30	--	9.0	*	
MW-16	12/31/2014	2.15	0.29	<1.0	<1.0	<1.0	0.038	8.1	1.6	0.55	<0.20	16.51	272.0	5.06	309	58.0	8.25	
MW-16	1/23/2015	5.49	0.27	<1.0	<1.0	<1.0	<0.020	9.5	5.3	0.19	<0.20	18.11	300.0	6.77	202	133.0	10.10	
MW-16	2/20/2015	4.86	0.31	<1.0	<1.0	<1.0	<0.020	10	4.7	0.16	<0.20	17.77	337.0	6.82	88.9	102.0	3.66	
MW-16	6/12/2015	3.44	0.29	<1.0	<1.0	<1.0	0.040	10	3.3	0.14	<0.20	19.37	312.0	6.84 ¹	90.6	130.0	2.95	
MW-16	8/10/2015	2.5	0.21	<1.0	1.40	<1.0	0.040	9.7	2.5	<0.10	<0.20	19.72	287.0	5.98	68.8	149.0	5.02	
MW-16	11/11/2015	0.74	0.22	<1.0	2.0	<1.0	0.039	8.0	0.74	<0.10	<0.20	18.10	276.0	6.77	142	91.0	6.11	
MW-16	2/3/2016	4.9	0.33	<1.0	7.3	<1.0	0.028	6.9	4.9	<0.10	<0.20	17.86	312.0	6.79	81.5	159.0	8.67	
MW-16	5/17/2016	6.0	0.56	1.1	65.0	<1.0	0.026	5.7	6.0	<0.10	<0.20	19.06	448.0	6.72	84.4	82.0	4.41	
MW-16	8/17/2016	7.2	--	--	88.0	1.80	--	--	7.0	0.16	<0.20	18.68	534.0	6.58	61.5	96.0	1.57	
MW-16	12/1/2016	<1.0	--	--	130.0	<100	--	--	<0.10	<0.10 HF	<0.20	18.61	644.0	6.65	14.2	147.0	3.52	
MW-16	3/2/2017	<1.0	--	--	80	<10	0.023	9.5	--	<0.10 HF	<0.20	17.83	574.0	6.55	10.1	186.0	3.33	

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)										Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia						
EW-14	6/25/2014	6.2	1.0	3.2	<0.20	.	<0.10	4.0	6.2	<0.10	0.54	19.3	1,258.0	6.98	--	-122.8	*
EW-14	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	6/25/2014	21	2.9	1.6	<0.20	<0.20	<0.10	<2.0	21	<0.10	<0.15	19.3	870.0	6.81	--	-96.1	*
EW-15	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	6/26/2014	3.5	1.4	0.77	<0.20	<0.20	15	19	3.5	<0.10	<0.15	20.1	916.0	6.80	--	-89.3	*
EW-16	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 5 – BIOATTENUATION MONITORING

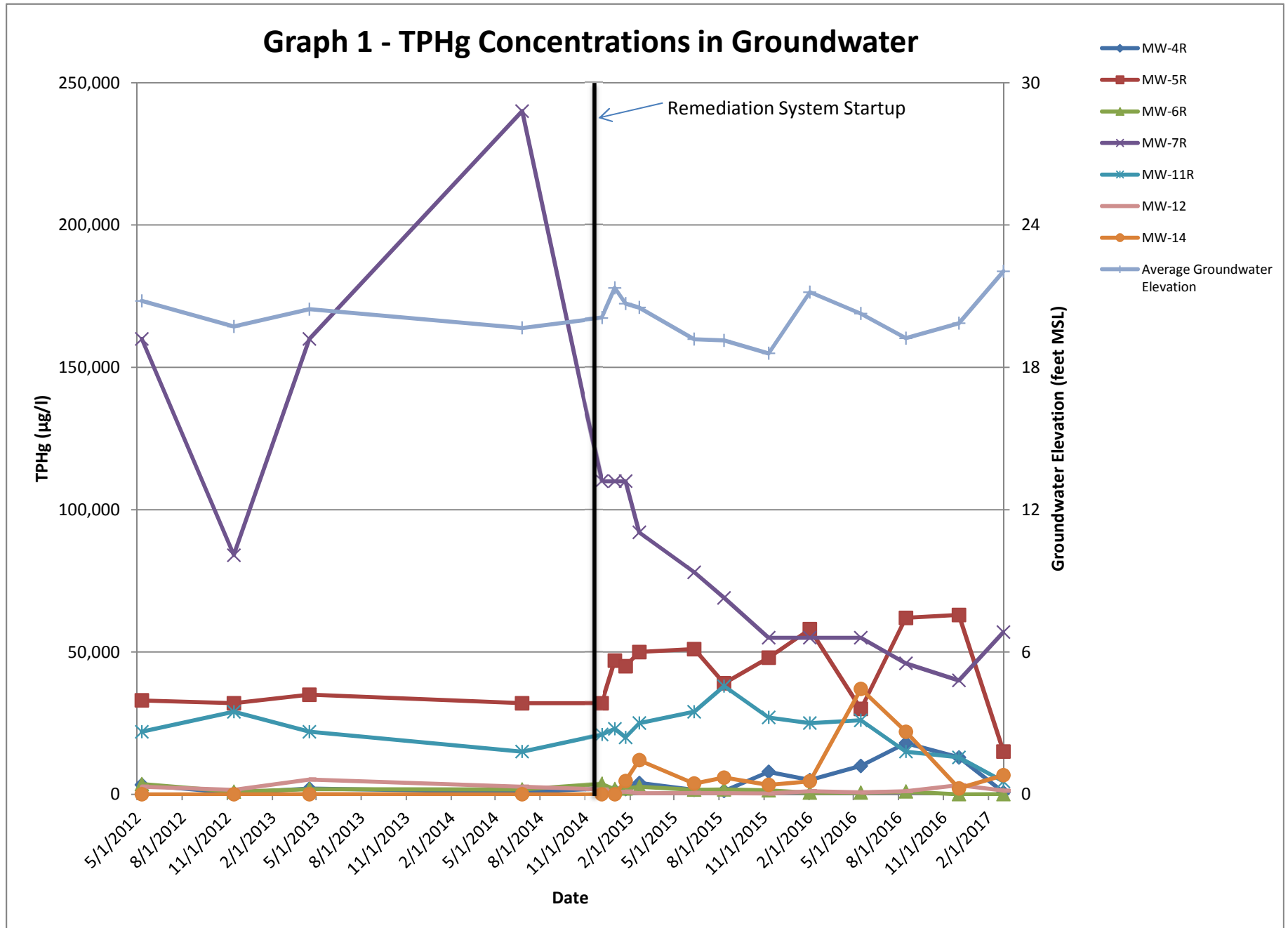
Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)										Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia						
EW-17	6/25/2014	31	1.6	0.75	<0.20	<0.20	<0.10	3.4	31	<0.10	0.34	19.5	1,494.0	7.09	--	-119.0	*
EW-17	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	6/25/2014	73	2.9	9.5	<0.20	<0.20	<0.10	<2.0	73	<0.10	0.3	21.2	870.0	6.82	--	-101.4	*
EW-18	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	6/25/2014	43	3.3	7.1	<0.20	<0.20	0.17	<2.0	43	<0.10	0.5	20.5	926.0	6.66	--	-91.1	*
EW-19	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

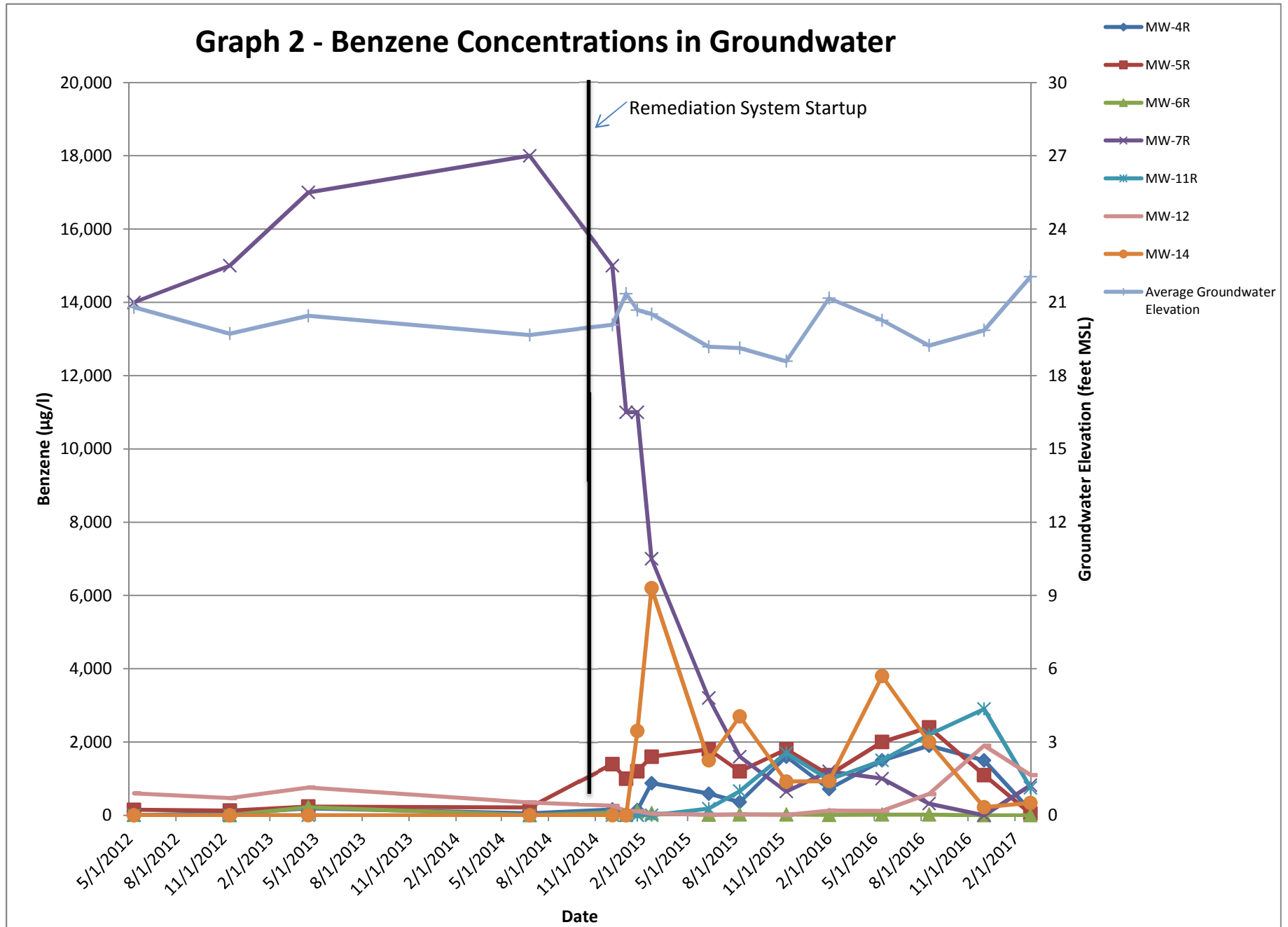
TABLE 5 – BIOATTENUATION MONITORING

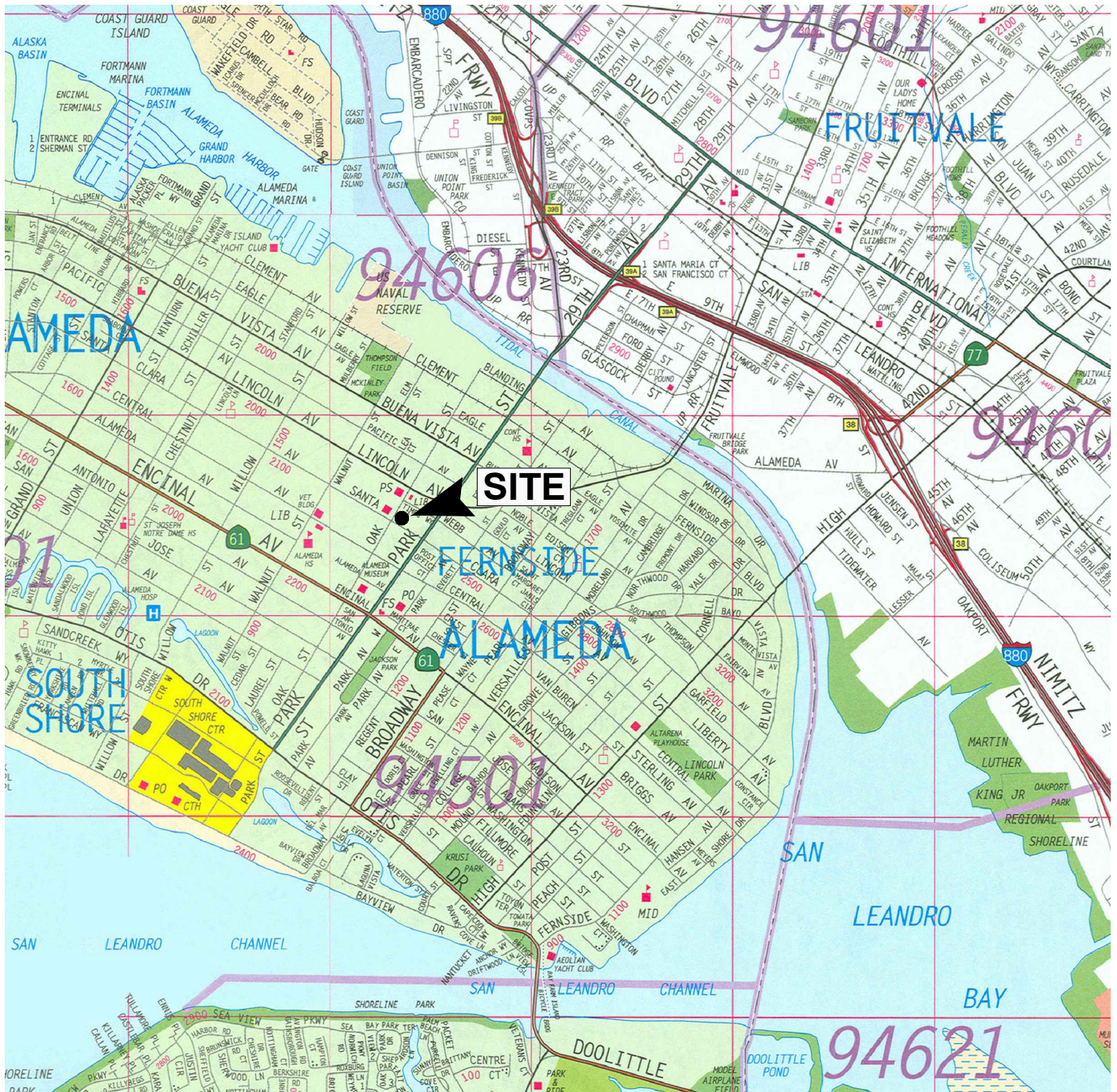
Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)										Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia						
EW-20	6/25/2014	110	2.6	9.1	0.22	<0.20	0.14	7	110	<0.10	0.36	21.0	750.0	6.85	--	-107.2	*
EW-20	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	6/26/2014	1.6	<0.5	6.1	6.1	<0.20	<0.10	15	1.60	<0.10	<0.03	20.0	422.2	6.90	--	10.0	*
EW-21	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	6/26/2014	23	<0.5	3.6	0.47	<0.20	<0.10	8.6	23	<0.10	0.03	18.8	173.7	6.63	--	141.3	*
EW-22	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0			Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument						
		(mg/l)										Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia						
<p>Notes: ID – identification EPA – United States Environmental Protection Agency HF - field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. mg/l – milligrams per liter SM – Standard Method °C - degrees centigrade µs/cm – microsiemens NTU - nephelometric turbidity units ORP – oxidation-reduction potential mV – millivolts % - percent <X - not detected at or above the laboratory reporting limit of X 1 - pH readings taken on 6/22/15 and not on sample date. -- - Not analyzed or not applicable *- Dissolved oxygen content was mistakenly measured in percent (%) during the 6/25/14 and 6/26/14 sampling event as well as the 12/4/14 and 12/5/14 sampling event. These results are hidden to avoid confusion. Samples taken on and after 12/30/2014 are measured in mg/L</p>																	







REFERENCE: METRO AREAS OF ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO, AND SANTA CLARA COUNTIES, THOMAS GUIDE, 2008.



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.



SITE LOCATION

FIGURE

PROJECT NO.	DATE
401896004	7/17

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

1

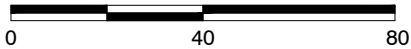
401896004-FIG1.dwg_07/19/2017_AOB JP



REFERENCE: GOOGLE EARTH, 2012.



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

 APPROXIMATE SITE BOUNDARY

Ninyo & Moore

SITE VICINITY

FIGURE

PROJECT NO.

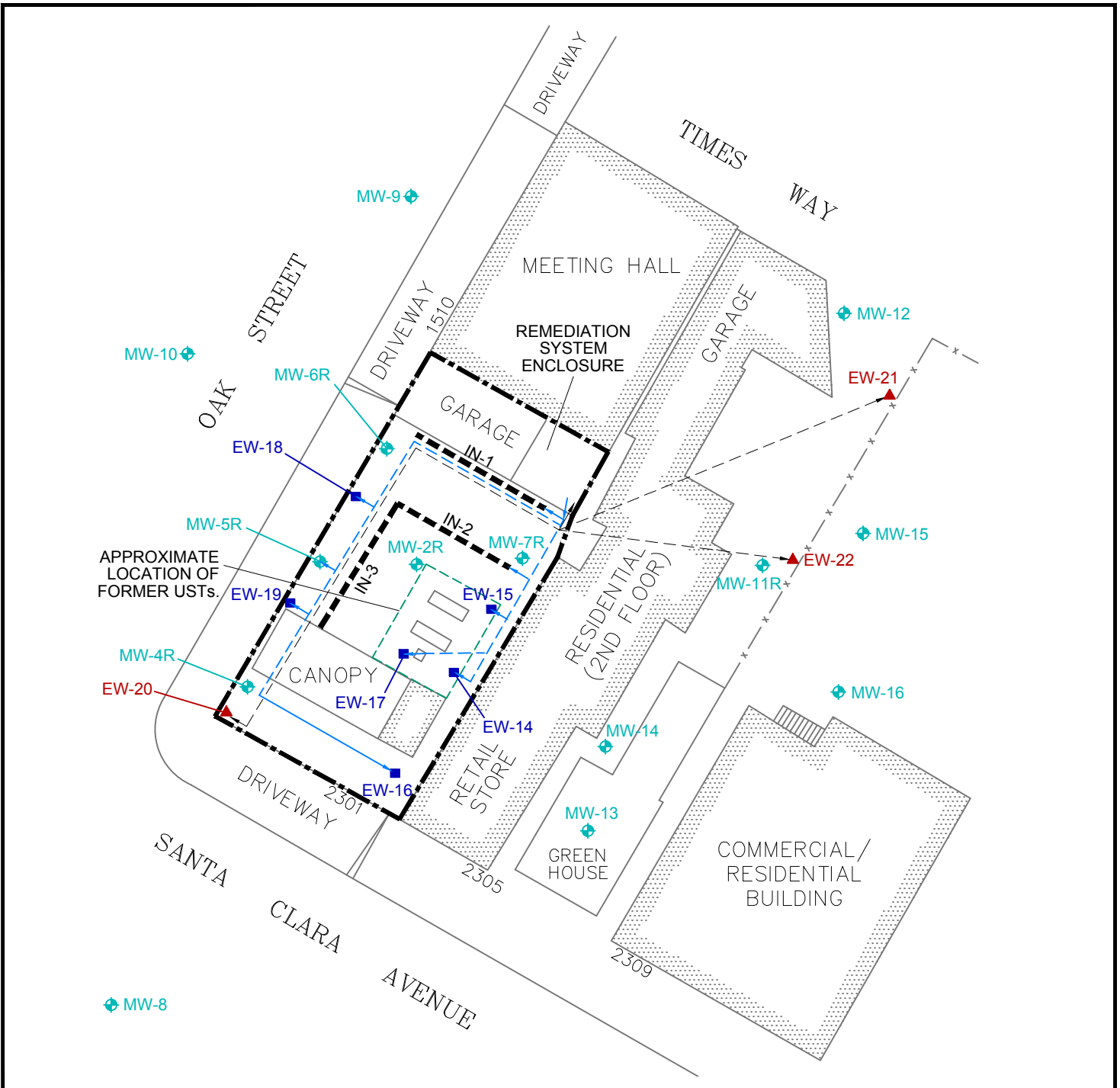
DATE

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

2

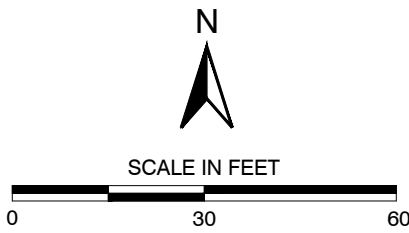
401896004

7/17



APPROXIMATE LOCATION OF FORMER USTs.

LEGEND	
	APPROXIMATE SITE BOUNDARY
	FENCE
	EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
	INJECTION WATER SUPPLY LINE
	SLOTTED HORIZONTAL INJECTION PIPING
	MW-16 GROUNDWATER MONITORING WELL
	EW-22 GROUNDWATER EXTRACTION WELL
	EW-19 GROUNDWATER INJECTION WELL

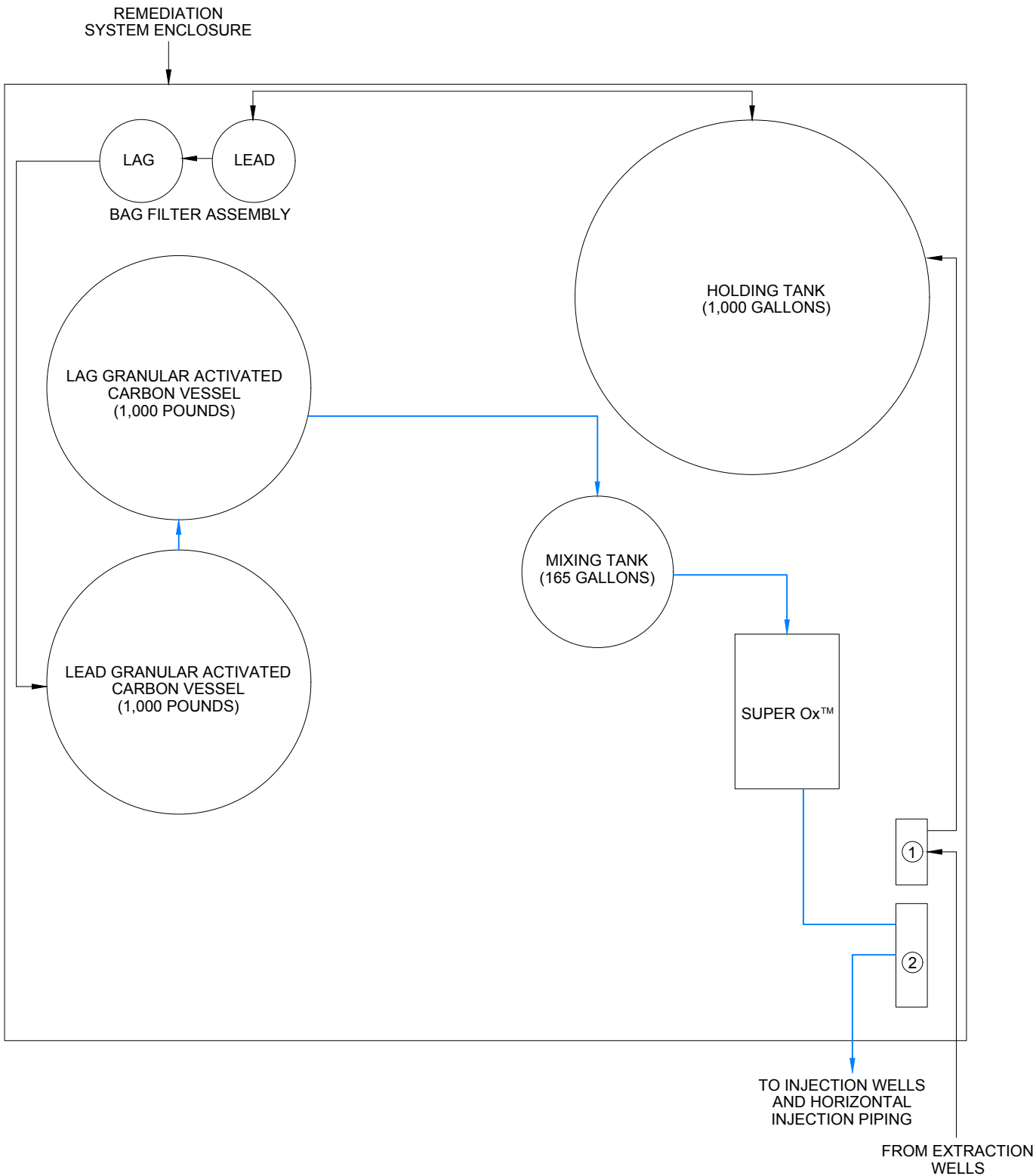


NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.

		SITE PLAN 2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA		FIGURE 3
401896004	7/17			

401896004-FIG3.dwg - 07/19/2017 - AOB-JP



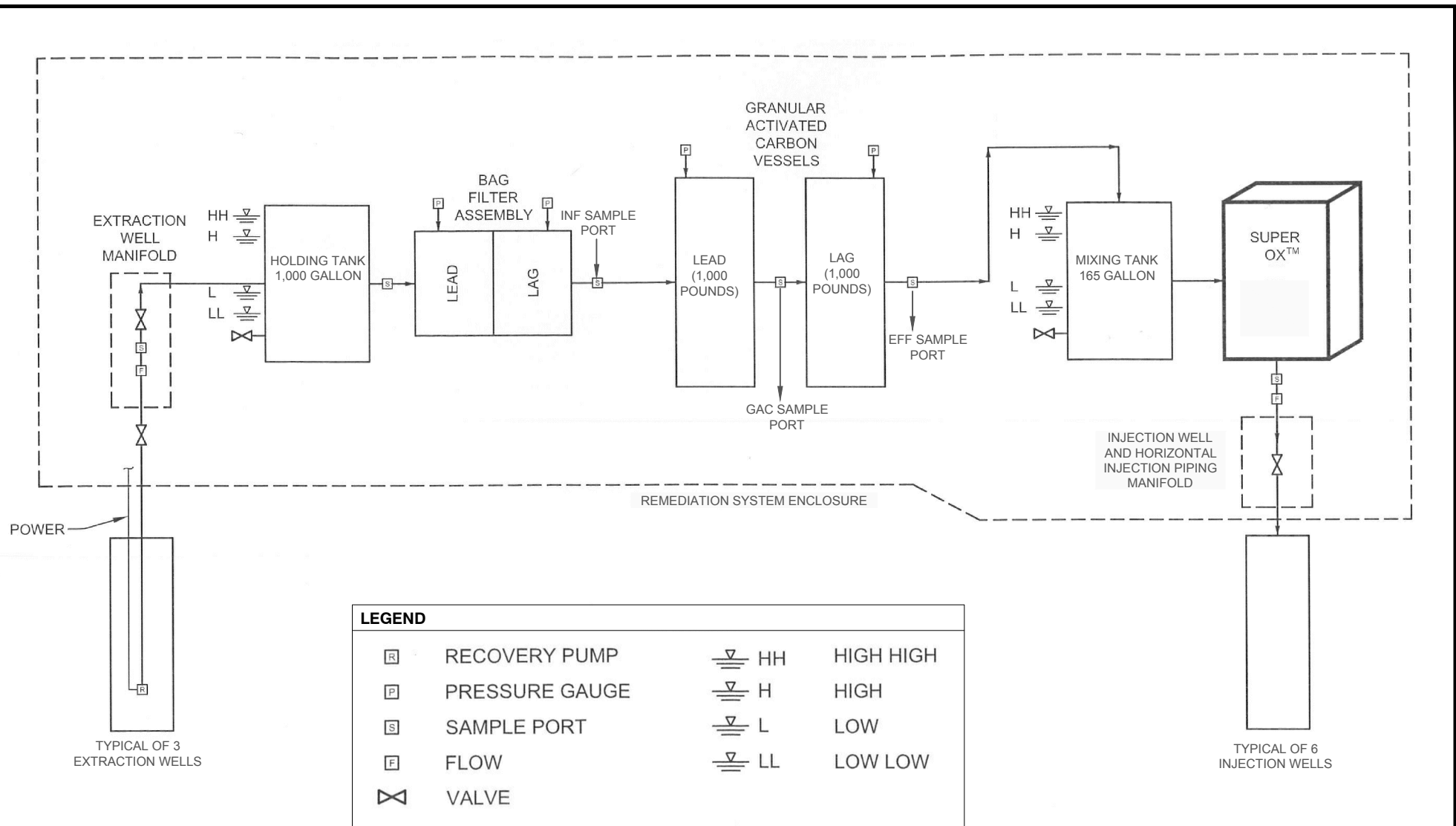
NOT TO SCALE

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND	
①	EXTRACTION WELL MANIFOLD
②	INJECTION WELL AND HORIZONTAL INJECTION PIPING MANIFOLD

401896004-FIG4.dwg, 07/19/2017, AOB, JP

Ninyo & Moore		REMEDIATION SYSTEM PLAN	FIGURE 4
PROJECT NO. 401896004	DATE 7/17	2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA	



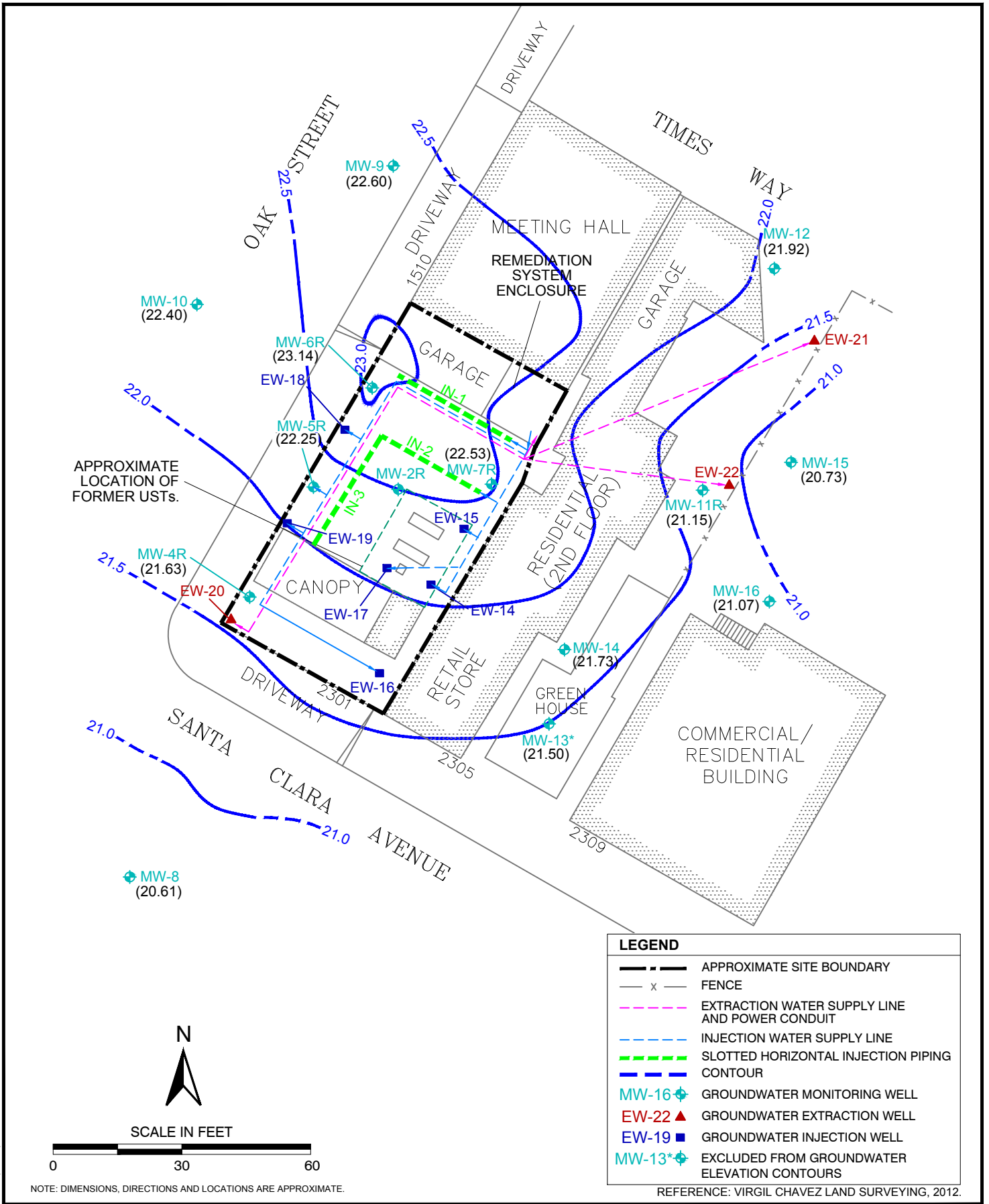
LEGEND			
	RECOVERY PUMP		H H HIGH HIGH
	PRESSURE GAUGE		H HIGH
	SAMPLE PORT		L LOW
	FLOW		L L LOW LOW
	VALVE		

REFERENCE: KENNEDY/JENKS CONSULTANTS, FIGURE 12, JANUARY 2010.

		REMEDIATION SYSTEM SCHEMATIC	FIGURE 5

NOT TO SCALE

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.



LEGEND	
	APPROXIMATE SITE BOUNDARY
	FENCE
	EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
	INJECTION WATER SUPPLY LINE
	SLOTTED HORIZONTAL INJECTION PIPING
	CONTOUR
	MW-16 GROUNDWATER MONITORING WELL
	EW-22 GROUNDWATER EXTRACTION WELL
	EW-19 GROUNDWATER INJECTION WELL
	MW-13* EXCLUDED FROM GROUNDWATER ELEVATION CONTOURS

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.



GROUNDWATER ELEVATION CONTOUR 3/2/17 - 3/3/17

FIGURE

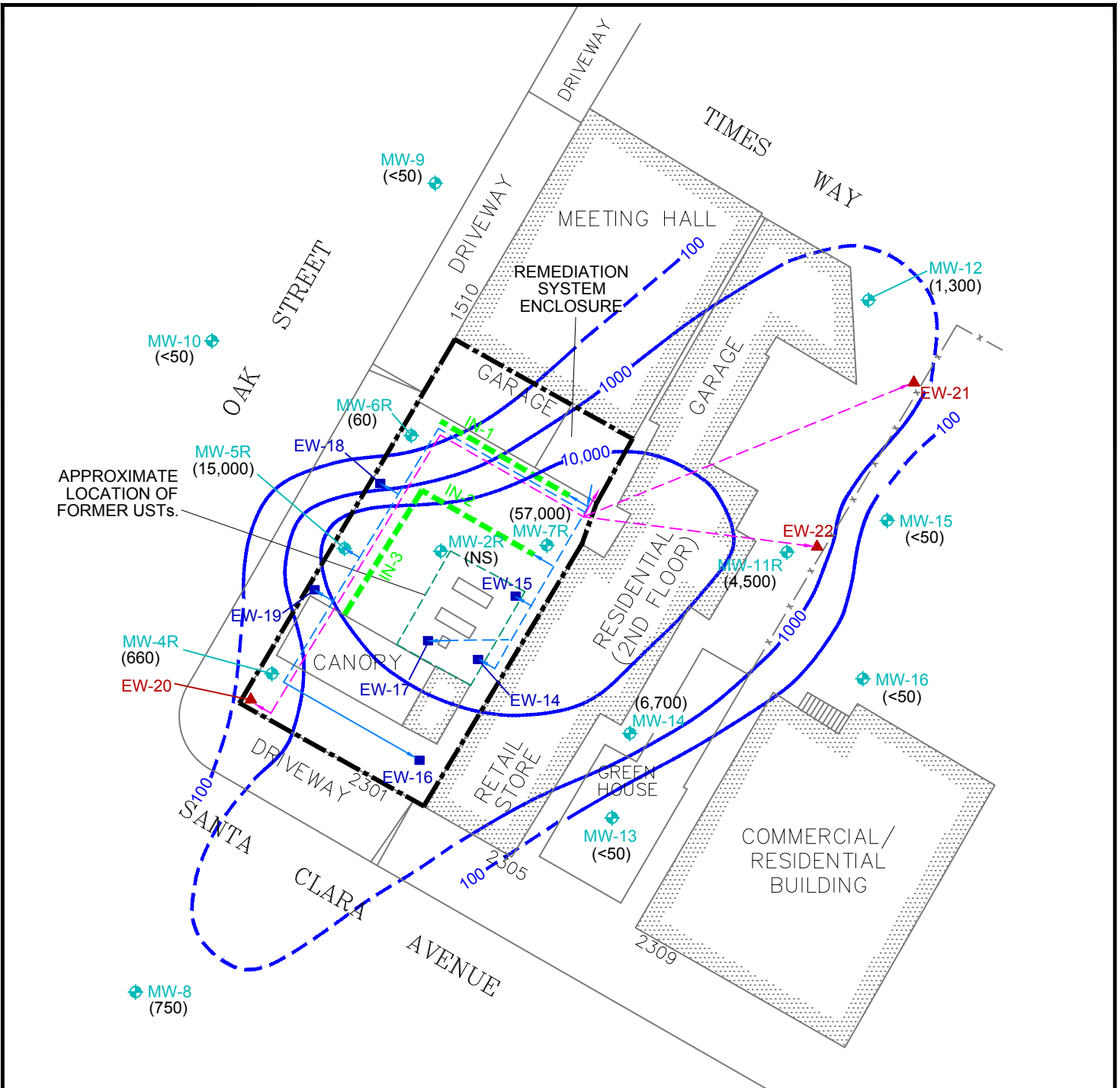
6

PROJECT NO.	DATE
401896004	7/17

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

401896004-FIG.dwg_07/19/2017_AOB.JP

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.



LEGEND	
	APPROXIMATE SITE BOUNDARY
	FENCE
	EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
	INJECTION WATER SUPPLY LINE
	SLOTTED HORIZONTAL INJECTION PIPING
	CONTOUR
	GROUNDWATER MONITORING WELL
	GROUNDWATER EXTRACTION WELL
	GROUNDWATER INJECTION WELL

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.



TOTAL PETROLEUM HYDROCARBONS AS GASOLINE CONCENTRATIONS IN GROUNDWATER 3/2/17 - 3/3/17

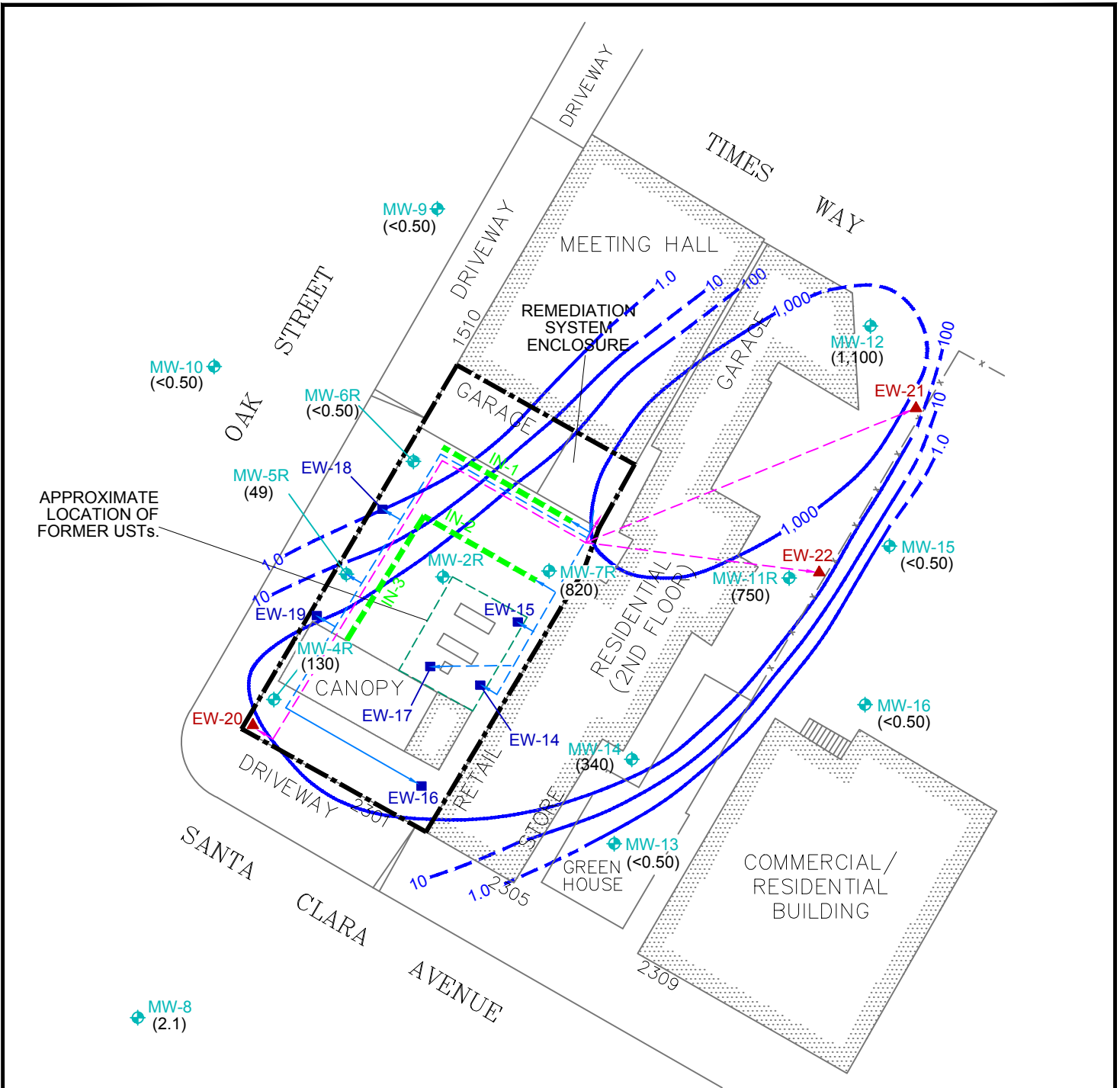
FIGURE

PROJECT NO.	DATE
401896004	7/17

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

7

401896004-FIG7.dwg, 07/19/2017, AOB, J.P.



APPROXIMATE LOCATION OF FORMER USTs.

LEGEND	
	APPROXIMATE SITE BOUNDARY
	FENCE
	EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
	INJECTION WATER SUPPLY LINE
	SLOTTED HORIZONTAL INJECTION PIPING
	CONTOUR
	GROUNDWATER MONITORING WELL
	GROUNDWATER EXTRACTION WELL
	GROUNDWATER INJECTION WELL

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.



BENZENE CONCENTRATIONS IN GROUNDWATER
3/2/17 - 3/3/17

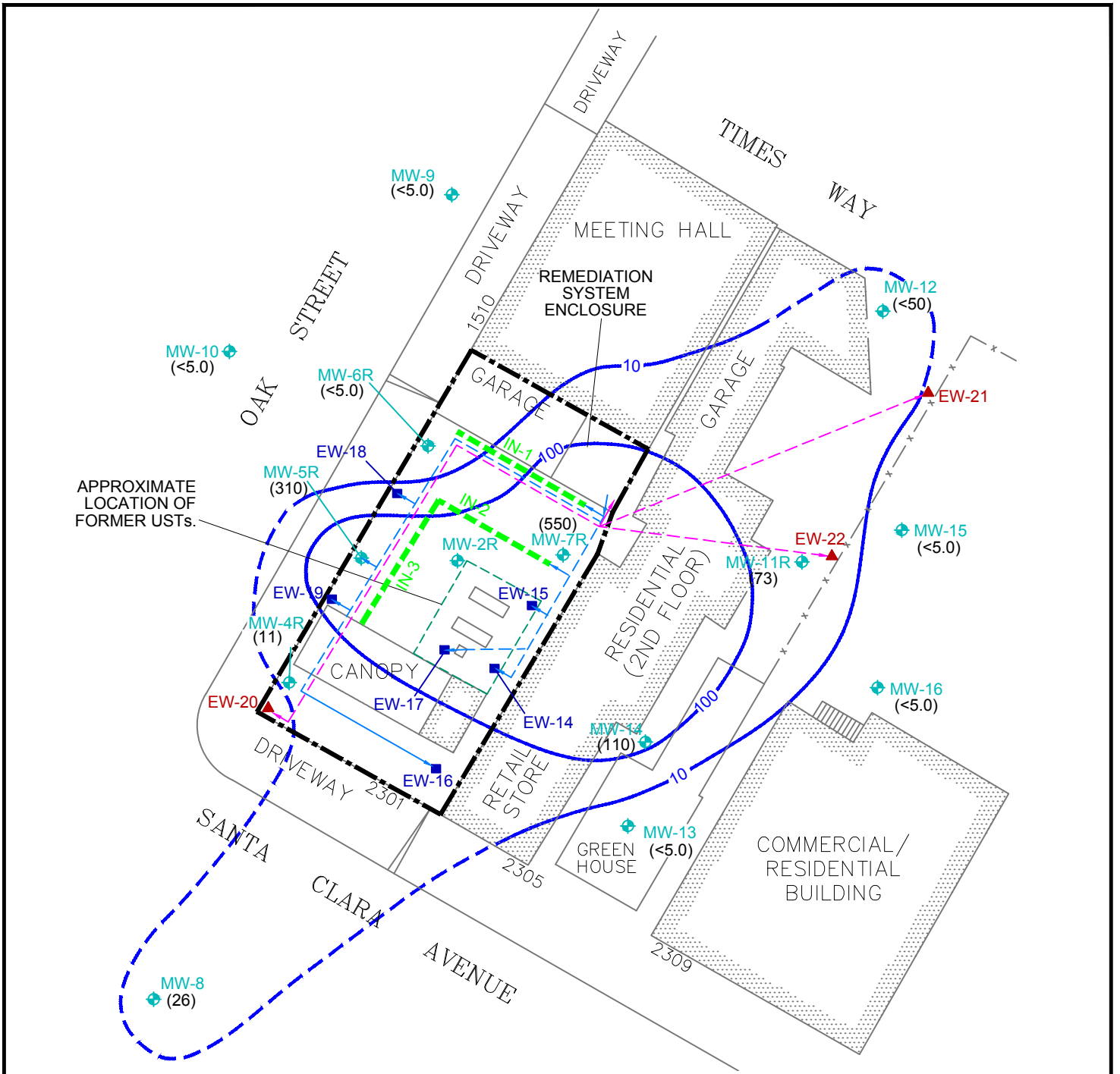
FIGURE

PROJECT NO.	DATE
401896004	7/17

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

8

401896004-FIG8.dwg, 07/19/2017, AOB, J.P.



APPROXIMATE LOCATION OF FORMER USTs.



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND	
	APPROXIMATE SITE BOUNDARY
	FENCE
	EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
	INJECTION WATER SUPPLY LINE
	SLOTTED HORIZONTAL INJECTION PIPING
	CONTOUR
	GROUNDWATER MONITORING WELL
	GROUNDWATER EXTRACTION WELL
	GROUNDWATER INJECTION WELL

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.



NAPHTHALENE CONCENTRATIONS IN GROUNDWATER 3/2/17 - 3/3/17

FIGURE

PROJECT NO.	DATE
401896004	7/17

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

9

401896004-FIG9.dwg, 01/02/2017, AOB JP

APPENDIX A

HISTORICAL CONSTITUENTS OF CONCERN CONCENTRATIONS

**HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-1
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS**

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	E ₂ BE	M ₂ BE	Naphthalene	1,3,5- Trimethylbenzene	1,2,4- Trimethylbenzene
9/17/2000	65,000	15,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	43,000	7,200													
9/20/2003	19,000	4,900													
12/25/2003	12,000	3,400													
4/24/2004	33,000	8,000													
8/8/2004	29,000	9,700													
8/20/2005	35,000	14,000	6,500	1,600	5,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/13/2006	72,000	17,000	16,000	3,000	10,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/11/2006	65,000	21,000	16,000	2,900	9,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/5/2006	62,000	17,000	12,000	2,300	8,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1/4/2007	46,000	6,500	4,200	980	4,890	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7/8/2007	57,000	11,000	11,000	2,200	9,600	ND	ND	ND	ND	ND	ND	ND	600	340	1,400
9/23/2007	22,000	4,700	4,100	950	4,100	ND	ND	ND	ND	ND	ND	2.7	390	140	640
9/6/2008	8,300	2,300	740	160	700	ND	ND	ND	ND	ND	ND	ND	200	34	130
9/26/2009	4,100	1,600	310	150	610	ND	ND	ND	ND	ND	ND	ND	75	32	120
2/27/2010	1,600	1,200	110	9.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/21/2010	3,100	1,300	54	ND	640	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	12,000	5,200	1,700	270	1,790	ND	ND	ND	ND	ND	ND	ND	230	68	230

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was abandoned in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-2
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	140,000	21,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	41,000	5,600													
9/21/2003	27,000	2,400													
12/25/2003	46,000	6,100													
4/24/2004	44,000	8,400													
8/8/2004	21,000	6,800													
8/20/2005	31,000	10,000	5,100	1,400	7,100	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/13/2006	50,000	15,000	5,200	970	4,400	ND	ND	ND	ND	ND	ND	ND			
6/11/2006	37,000	12,000	8,500	1,700	6,200	ND	ND	ND	ND	ND	ND	ND			
9/5/2006	24,000	8,100	1,400	840	3,090	ND	ND	ND	ND	ND	ND	ND			
1/4/2007	17,000	4,300	2,400	590	2,100	ND	ND	ND	ND	ND	ND	ND			
7/8/2007	ND	5,400	170	320	750	ND	ND	ND	ND	ND	ND	ND			
9/23/2007	2,500	6,700	540	300	940	ND	ND	ND	3.3	ND	ND	6.6	310	97	260
9/6/2008	6,300	3,000	440	10	290	ND	ND	ND	ND	ND	ND	ND	120	22	12
9/26/2009	5,500	1,800	610	140	680	ND	ND	ND	ND	ND	ND	ND	90	52	180
2/27/2010	3,600	2,500	430	42	6.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/21/2010	4,700	1,500	550	ND	860	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	11,000	6,300	790	ND	1,230	ND	ND	ND	ND	ND	ND	ND	210	69	170

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was replaced with well MW-2R in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-3
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	9,300	3,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	10,000	2,300													
9/21/2003	2,700	320													
12/25/2003	3,300	290													
4/24/2004	3,100	1,000													
8/8/2004	2,500	400													
8/20/2005	5,500	3,000	27	140	740	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/13/2006	6,400	2,100	19	150	530	ND	ND	ND	ND	ND	ND	ND			
6/11/2006	7,000	2,000	52	380	940	ND	ND	ND	31	ND	ND	ND			
9/5/2006	6,000	1,500	31	180	720	ND	ND	ND	27	ND	ND	ND			
1/4/2007	5,500	1,400	ND	77	297	ND	ND	ND	ND	ND	ND	ND			
7/8/2007	5,600	1,500	87	180	740	ND	ND	ND	38	ND	ND	ND			
9/22/2007	5,600	1,300	35	57	189	ND	ND	ND	28	ND	ND	ND	120	8.6	30
9/6/2008	2,600	500	13	19	125	ND	ND	ND	20	ND	ND	ND	33	4.1	11
9/26/2009	2,200	240	12	14	104	ND	ND	ND	4.6	ND	ND	ND	69	3.0	11
2/27/2010	7,270	120	5.4	7.9	44	ND	ND	ND	4.6	ND	ND	ND	38	1.3	2.1
8/21/2010	100	ND	ND	ND	4.6	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	1,100	120	2.4	2.4	88	ND	ND	ND	ND	ND	ND	ND	54	7.2	7.2

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was abandoned in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-4
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	ND	ND													
9/20/2003	ND	ND													
12/25/2003	ND	ND													
4/24/2004	3,000	1.0													
8/8/2004	ND	ND													
8/20/2005	1,100	1.5	ND	ND	63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/13/2006	320	ND	ND	1.4	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/12/2006	1,500	0.9	3.8	78	236	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/5/2006	760	ND	ND	1.6	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1/4/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7/8/2007	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/23/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/5/2008	170	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/27/2010	130	ND	0.6	3.6	27	ND	ND	ND	ND	ND	ND	ND	ND	1.8	3.2
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was replaced with well MW-4R in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-5
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	44,000	490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	16,000	89													
9/21/2003	8,700	ND													
12/25/2003	2,300	140													
4/24/2004	13,000	97													
8/8/2004	13,000	82													
8/20/2005	19,000	130	750	1,000	4,400	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/14/2006	21,000	61	350	700	3,330	ND	ND	ND	ND	ND	ND	ND			
6/12/2006	14,000	91	620	1,000	4,340	ND	ND	ND	ND	ND	ND	ND			
9/5/2006	15,000	56	550	890	3,910	ND	ND	ND	ND	ND	ND	ND			
1/4/2007	20,000	110	680	1,200	4,250	ND	ND	ND	ND	ND	ND	ND			
7/8/2007	23,000	72	1,200	ND	5,300	ND	ND	ND	ND	ND	ND	ND			
9/24/2007	6,100	490	770	950	4,140	ND	ND	ND	ND	ND	ND	ND	360	250	1,300
9/5/2008	740	ND	1.1	0.8	22	ND	ND	ND	ND	ND	ND	ND	27	22	1.2
9/27/2009	4,000	7.9	47	120	670	ND	ND	ND	ND	ND	ND	ND	86	86	370
2/27/2010	2,100	5.8	34	86	400	ND	ND	ND	ND	ND	ND	ND	92	26	130
8/20/2010	840	0.7	0.5	ND	162	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	2,500	6.8	32	13	431	ND	ND	ND	ND	ND	ND	ND	93	45	69

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was replaced with well MW-5R in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-6
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	
	Analytical Results (µg/L)															
9/17/2000	10,000	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/4/2002	3,900	29														
9/20/2003	500	15														
12/25/2003	1,200	18														
4/24/2004	110	3.6														
8/8/2004	320	2.7														
8/20/2005	810	ND	ND	ND	180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
6/12/2006	9,140	3.3	13	46	173	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/5/2006	1,100	4.4	10	50	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1/4/2007	390	2.0	14	23	85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7/8/2007	720	2.8	3.2	33	42	ND	ND	ND	ND	ND	ND	ND	ND	19	3.0	17
9/23/2007	1,200	2.8	7.3	56	142	ND	ND	ND	ND	ND	ND	ND	ND	17	13	60
9/5/2008	730	2.0	4.0	16	116	ND	ND	ND	ND	ND	ND	ND	ND	24	9.4	41
9/26/2009	170	0.7	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	6.4	ND	0.8
2/27/2010	230	1.3	1.0	5.8	18	ND	ND	ND	ND	ND	ND	ND	ND	23	1.9	6.7
8/21/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	360	1.2	1.6	ND	9.4	ND	ND	ND	ND	ND	ND	ND	ND	29	3.6	16

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was replaced with well MW-6R in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-7
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	220,000	32,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	140,000	15,000													
9/21/2003	110,000	4,200													
12/25/2003	110,000	12,000													
4/24/2004	100,000	10,000													
8/8/2004	92,000	9,300													

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was replaced with well MW-7R in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-8
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	ND	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/3/2002	ND	1.1													
9/20/2003	ND	ND													
12/25/2003	ND	ND													
4/24/2004	ND	ND													
8/8/2004	NA	NA													
8/22/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/12/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/6/2006	ND	1.4	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1/6/2007	390	4.4	4.7	0.9	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/21/2007	ND	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/5/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/26/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-9
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/3/2002	ND	ND													
9/20/2003	ND	ND													
12/25/2003	ND	ND													
4/24/2004	ND	ND													
8/22/2005	ND	ND													
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/13/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/7/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1/6/2007	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/21/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/5/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/26/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-10
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/3/2002	ND	ND													
9/20/2003	ND	ND													
12/25/2003	ND	ND													
4/24/2004	ND	ND													
8/22/2004	ND	ND													
8/22/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
6/13/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/7/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1/6/2007	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/21/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/5/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2/26/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-11
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
10/24/2002	59,000	5,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/22/2003	46,000	1,700													
12/25/2003	14,000	1,400													
4/24/2004	38,000	5,000													
8/8/2004	29,000	3,100													
8/20/2005	31,000	5,100	1,500	3,400	17,800	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/14/2006	47,000	5,600	2,400	1,900	10,100	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
6/12/2006	44,000	5,900	2,200	3,600	15,700	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
9/6/2006	36,000	5,900	2,100	3,000	16,000	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
1/5/2007	50,000	2,200	450.0	2,100	13,300	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
7/7/2007	54,000	2,800	1,200.0	3,100	16,400	ND	ND	ND	ND	ND	ND	ND	610	750	2900
9/22/2007	21,000	2,000	1,000	3,100	9,700	ND	ND	ND	ND	ND	ND	ND	490	310	2,700
9/5/2008	11,000	770	160	940	3,100	ND	ND	ND	ND	ND	ND	ND	440	160	1,300
9/26/2009	14,000	280	2,900	560	4,800	ND	ND	ND	ND	ND	ND	ND	150	170	690
2/27/2010	13,000	53	860	700	4,900	ND	ND	ND	ND	ND	ND	ND	180	150	670
8/20/2010	57,000	ND	97	190	2,120	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/22/2011	19,000	ND	29	30	6,500	ND	ND	ND	ND	ND	ND	ND	410	380	1,500

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was replaced with well MW-11R in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-12 (formerly BL)
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
8/22/2005	ND	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/14/2006	400	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	11			
6/12/2006	ND	6.8	ND	ND	ND	ND	ND	ND	2.2	ND	ND	2.9			
9/7/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
1/5/2007	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	0.92	ND	ND	ND	ND	ND	ND
9/22/2007	ND	8.6	ND	ND	ND	ND	ND	ND	2.8	ND	ND	3.5	ND	ND	ND
9/4/2008	ND	ND	ND	ND	ND	ND	21	ND	3.6	ND	ND	5.0	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/27/2010	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

**HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-13 (formerly BG)
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS**

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
8/22/2005	100	5.9	ND	ND	ND	ND	ND	ND	13	ND	ND	39	NA	NA	NA
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7			
6/12/2006	110	7.6	ND	ND	ND	ND	31	ND	16	ND	ND	48			
9/7/2006	ND	3.3	ND	ND	ND	ND	ND	ND	20	ND	ND	40			
1/5/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40			
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	30	ND	ND	ND
9/22/2007	ND	ND	ND	ND	ND	ND	ND	ND	21	ND	ND	37	ND	ND	ND
9/5/2008	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	31	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND	ND	6.2	ND	ND	ND
2/28/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	NA	NA	NA
4/22/2011	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	6.8	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-14 (formerly BF)
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
8/20/2005	3,800	89	4.7	150	3.4	ND	80	ND	19	ND	ND	42	NA	NA	NA
3/14/2006	ND	5,300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
6/12/2006	14,000	11,000	ND	600	ND	ND	ND	ND	ND	ND	ND	ND			
9/6/2006	ND	6,500	ND	170	ND	ND	ND	ND	ND	ND	ND	ND			
1/5/2007	13,000	5,200	5.7	190	71	ND	ND	ND	ND	ND	ND	ND	97	48	73
7/7/2007	6,900	3,700	54	550	582	ND	ND	ND	ND	ND	ND	ND	49	22	14
9/22/2007	3,200	2,600	19	310	160	ND	ND	ND	ND	ND	ND	3.9	11	ND	3.2
9/5/2008	690	280	ND	ND	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/25/2009	ND	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/28/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/22/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-15 (formerly BH)
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
8/20/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31	NA	NA	NA
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38			
6/12/2006	ND	0.93	ND	ND	ND	ND	130	ND	6.0	ND	ND	55			
9/6/2006	ND	ND	ND	ND	ND	ND	31	ND	3.8	ND	ND	38			
1/5/2007	140	12	44	3.6	19.9	ND	ND	ND	ND	ND	ND	ND			
7/7/2007	ND	ND	ND	ND	ND	ND	90	ND	4.8	ND	ND	60	ND	ND	ND
9/22/2007	ND	ND	ND	ND	ND	ND	29	ND	2.5	ND	ND	27	ND	ND	ND
9/4/2008	ND	1.1	ND	ND	ND	ND	ND	ND	3.0	ND	ND	20	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/26/2010	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	3.6	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-16 (formerly BM)
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
8/20/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0	NA	NA	NA
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10			
6/12/2006	ND	ND	ND	ND	ND	ND	29	ND	5.0	ND	ND	14			
9/6/2006	ND	ND	ND	ND	ND	ND	12	ND	5.8	ND	ND	4.7			
1/6/2007	ND	ND	ND	ND	ND	ND	ND	ND	4.1	ND	ND	11			
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	ND	4.5	ND	ND	ND
9/22/2007	ND	ND	ND	ND	ND	ND	ND	ND	4.2	ND	ND	6.8	ND	ND	ND
9/4/2008	ND	ND	ND	ND	ND	ND	ND	ND	3.5	ND	ND	9.1	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/27/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - EW-12
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
10/31/2002	5,840	76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/21/2003	19,000	590													
12/25/2003	9,900	790													
4/24/2004	12,000	920													

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was abandoned in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - EW-13
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
10/31/2002	109,200	9,120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/21/2003	71,000	10,000													
12/25/2003	110,000	17,000													
4/24/2004	100,000	19,000													
8/8/2004	NA	NA													
8/22/2005	130,000	27,000	5,500	4,200	21,700	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/13/2006	140,000	16,000	46,000	3,300	19,300	ND	ND	ND	ND	ND	ND	1,400	NA	NA	NA
6/11/2006	130,000	23,000	48,000	3,000	18,800	ND	ND	ND	ND	ND	ND	ND			
9/5/2006	120,000	12,000	40,000	3,200	17,800	ND	ND	ND	ND	ND	ND	ND			
1/5/2007	410,000	57,000	43,000	17,000	75,000	ND	ND	ND	ND	ND	ND	ND			
7/9/2007	140,000	10,000	45,000	4,400	22,800	ND	ND	ND	ND	ND	ND	ND			
9/24/2007	27,000	5,400	35,000	3,600	18,600	ND	ND	ND	ND	ND	ND	ND	410	280	1,700
9/6/2008	73,000	7,900	21,000	730	11,300	ND	ND	ND	ND	ND	ND	ND	ND	210	860
9/27/2009	12,000	1,200	3,900	440	2,630	ND	ND	ND	ND	ND	ND	ND	74	71	300
2/27/2010	11,000	3,500	4,300	380	730	ND	ND	ND	ND	ND	ND	ND	57	ND	ND
8/22/2010	14,000	2,600	2,400	30	2,180	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	44,000	7,900	13,000	350	9,500	ND	ND	ND	ND	ND	ND	ND	240	210	890

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was abandoned in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - EW-14
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/22/2003	68,000	4,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/25/2003	26,000	5,300													
4/24/2004	9,400	4,100													
8/8/2004	14,000	6,300													
8/22/2005	26,000	7,100													
3/13/2006	1,300	360	110	35	119	13	ND	ND	ND	ND	ND	ND	NA	NA	NA
6/11/2006	2,300	1,100	260	45	198	ND	ND	ND	3.3	ND	ND	ND			
9/6/2006	20,000	4,700	4,200	980	3,800	ND	ND	ND	ND	ND	ND	ND			
1/4/2007	30,000	7,000	4,500	1,100	5,000	ND	ND	ND	ND	ND	ND	ND			
7/9/2007	54,000	14,000	8,800	2,400	10,000	ND	ND	ND	ND	ND	ND	ND			
9/23/2007	19,000	9,900	7,700	2,100	9,300	ND	ND	ND	ND	ND	ND	12	290	220	1,100
9/6/2008	12,000	4,000	900	66	1,980	ND	ND	ND	ND	ND	ND	ND	110	53	220
9/27/2009	1,700	520	49	41	373	ND	ND	ND	ND	ND	ND	ND	19	15	64
2/27/2010	ND	ND	ND	2.2	373	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9
8/21/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - EW-15
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
1/21/2004	72,000	8,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8/8/2004	36,000	3,300													
8/22/2005	670,000	11,000													
3/13/2006	12,000	1,900													
6/11/2006	25,000	2,900	11,000	2,300	11,200	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
9/6/2006	51,000	8,200													
1/5/2007	30,000	9,700													
7/9/2007	46,000	5,200	3,800	2,500	11,500	ND	ND	ND	ND	ND	ND	ND	500	630	2,300
9/23/2007	59,000	14,000	5,800	3,600	16,000	ND	ND	ND	4.1	ND	ND	2.5	660	440	2,400
9/6/2008	19,000	7,100	1,000	57	2,730	ND	ND	ND	3.1	ND	ND	4.4	180	130	280
9/26/2009	8,800	1,400	530	280	2,650	ND	ND	ND	ND	ND	ND	ND	96	140	480
2/27/2010	720	250	57	50	113	ND	ND	ND	ND	ND	ND	ND	6.3	1.6	1.5
8/22/2010	1,600	200	4.1	ND	357	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	3,600	680	870	27	780	ND	ND	ND	ND	ND	ND	ND	25	21	31

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - EW-16
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
1/21/2004	1,500	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8/8/2004	2,500	590													
8/20/2005	1,600	410	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
3/13/2006	900	400	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND			
6/11/2006	1,400	680	4.1	13	23	ND	ND	ND	ND	ND	ND	ND			
9/5/2006	2,100	210	ND	2.6	ND	ND	ND	ND	14	ND	ND	ND			
1/4/2007	370	2.9	ND	ND	ND	ND	ND	ND	6.6	ND	ND	ND			
7/9/2007	2,300	53	ND	ND	ND	ND	ND	ND	2.0	ND	ND	ND	59	ND	ND
9/22/2007	680	4.2	ND	1.1	1.5	ND	ND	ND	ND	ND	ND	ND	29	ND	ND
9/5/2008	310	ND	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND	7.3	ND	ND
9/26/2009	390	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.4	ND	ND
2/27/2010	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/21/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	190	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - EW-17
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
1/21/2004	18,000	2,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8/8/2004	30,000	6,800													
8/22/2005	42,000	13,000	9,300	1,700	8,100	ND	ND	ND	ND	ND	ND	ND			
3/13/2006	29,000	6,500	6,500	1,100	5,500	ND	ND	ND	ND	ND	ND	ND			
6/11/2006	38,000	9,700	9,500	1,600	7,300	ND	ND	ND	ND	ND	ND	ND			
9/6/2006	26,000	8,900	6,900	1,300	6,200	ND	ND	ND	ND	ND	ND	ND			
1/4/2007	27,000	8,100	3,200	890	3,410	ND	ND	ND	ND	ND	ND	ND			
7/9/2007	40,000	7,600	6,400	1,400	7,000	ND	ND	ND	ND	ND	ND	ND	430	220	940
9/23/2007	6,800	5,300	5,300	1,300	5,700	ND	ND	ND	4.2	ND	ND	2.0	210	180	920
9/6/2008	7,500	3,200	530	18	680	ND	ND	ND	ND	ND	ND	ND	87	26	85
9/27/2009	4,200	1,400	580	110	730	ND	ND	ND	ND	ND	ND	ND	64	26	130
2/27/2010	2,600	1,500	400	56	614	ND	ND	ND	ND	ND	ND	ND	50	ND	ND
8/21/2010	2,900	1,200	110	ND	570	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	6,500	3,000	110	ND	1,300	ND	ND	ND	ND	ND	ND	ND	100	51	150

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - Monitoring Well BJ
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
8/22/2005	1500	14	100	38	224	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/13/2006	790	ND	6.6	6.5	57	ND	ND	ND	ND	ND	ND	ND			
6/11/2006	ND	ND	0.9	0.6	4.5	ND	ND	ND	ND	ND	ND	ND			
9/7/2006	ND	1.4	3.8	1.5	9.1	ND	ND	ND	ND	ND	ND	ND			
1/6/2007	ND	ND	2.4	1.4	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/22/2007	150	4.0	2.2	0.5	8.9	ND	ND	ND	ND	ND	ND	ND	ND	1.3	4.2
9/5/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/28/2010	ND	ND	ND	1.1	3.4	ND	ND	ND	ND	ND	ND	ND	3.3	ND	0.9
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/22/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This monitoring well was not located in May 2012

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - Monitoring Well BK
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
8/22/2005	3,600	22	61	64	330	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/13/2006	1,800	ND	14	41	276	ND	ND	ND	ND	ND	ND	28			
6/11/2006	700	ND	0.91	9.8	59	ND	ND	ND	ND	ND	ND	ND			
9/7/2006	1100	0.54	4.9	8.5	70	ND	ND	ND	ND	ND	ND	ND			
1/6/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/22/2007	ND	ND	ND	ND	7.8	ND	ND	ND	ND	ND	ND	ND	ND	1.8	1.5
9/5/2008	450	18	45	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/25/2009	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/28/2010	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/22/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This monitoring well was not located in May 2012.

APPENDIX B

OPERATIONS AND MAINTENANCE FIELD FORMS

Field Form for Treatment System Operations and Maintenance
 Enhanced Biodegradation and Groundwater Recirculation Project
 Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 11/4/16

Field Tech: Peter Simms

Time: 8:00

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	<u>678200</u>	--	--	
EX-22	<u>619860</u>	--	--	
EX-21	<u>449170</u>	--	--	
Injection				
IN-18 + 19	<u>41310</u>	<u>2</u>	<u>36</u>	
IN-16	<u>100070</u>	<u>8.6</u>	<u>16</u>	
Trenches 2+3	<u>364270</u>	<u>8.2</u>	<u>20</u>	
Trench 1 + IN 17	<u>371900</u>	<u>10</u>	<u>10</u>	
IN 14 +15	<u>302520</u>	<u>8.2</u>	<u>20</u>	

Treatment System

Totalizer (digital): 1225500 gal

GAC Lead Pressure: 36.0 psi
 GAC Polish Pressure: 34.0 psi
 Bag Filter 1 Pressure: 36 psi
 Bag Filter 2 Pressure: 34 psi
 Mixing Tank pH _____
 Holding Tank pH _____

Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Add Amendment to Holding Tank
 _____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
50 lbs CBN nutrient mix
 _____ gal EZT-EA biosurfactant
 _____ cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 01 / 17 / 17

Field Tech: ALT

Time: 10 : 52

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	591,040	--	--	
EX-22	467,740	--	--	
EX-21	619,860	--	--	
Injection				
IN-18 + 19	41,750	20	8	1117
IN-16	101,030	14	10	1115
Trenches 2+3	371,088	10	9.5	1111
Trench 1 + IN 17	380,320	12	11	1107
IN 14 +15	306,900	20	8.5	1104
Little bwe pump on from 1112 → leaving site @ 1127				

Treatment System

Totalizer (digital): 1,247,910 gal

GAC Lead Pressure: 34 psi

GAC Polish Pressure: 0 psi

Bag Filter 1 Pressure: 59 psi

Bag Filter 2 Pressure: 46 psi

Mixing Tank pH: /

Holding Tank pH: /

Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Add Amendment to Holding Tank
_____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
- 50 lbs CBN nutrient mix
- / gal EZT-EA biosurfactant
- / cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Ninyo & Moore

Project Name Chun
Project Number 40
Calculated By ALF Date 1.17.17
Checked By _____ Date _____
Scale _____ Sheet _____ of _____

1050 - Arrive @ Chun

1052 - + 50lb CBN into white [small] tank

- plug in pump

1127 - leave site

1147 - arrive @ office (Oak)

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 2 / 1 / 2017

Field Tech: ALT

Time: 13 : 08

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	605,510	--	--	on
EX-22	471,520	--	--	
EX-21	421,320	--	--	
Injection				
	42,310			
IN-18 + 19		32	2.5	
IN-16	102,2190	22	7	
Trenches 2+3	378,778	15	2.5	1312
Trench 1 + IN 17	390,300	10	12	1310
IN 14 +15	312,050			

Treatment System

Totalizer (digital): 1274810 gal

GAC Lead Pressure: 30 psi

GAC Polish Pressure: 0 psi

Bag Filter 1 Pressure: 62 psi

Bag Filter 2 Pressure: 58 psi

Mixing Tank pH:

Holding Tank pH:

Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Add Amendment to Holding Tank
_____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
50 lbs CBN nutrient mix
- 0 gal EZT-EA biosurfactant
- 0 cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Ninyo & Moore

Project Name Chun
Project Number _____
Calculated By AUT Date 2.1.17
Checked By _____ Date _____
Scale _____ Sheet 1 of 1

1222 - leave office/lunch
1245 - lunch → site
1308 - arrive @ site
- collect readings
1320 - collect samples
1330 - + 50 lbs CBN
1335 - EFF
1337 - GAC
1339 - INF
1357 - leave site
1415 - arrive @ office

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 2 / 13 / 17

Field Tech: ALT

Time: 8 : 59

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	616,680	--	--	running
EX-22	471,520	--	--	
EX-21	623,340	--	--	94); brief duration, ~5s
↳ turned dial 1 rotation				
Injection				
IN-18 + 19	42,720	234	2.5	1104
IN-16	103,000	22	6.5	1104
Trenches 2+3	385,270	6	8.0	71) - runs same time as 1417
Trench 1 + IN 17	378,830	11	10.5	906
IN 14 + 15	316,140	18	8.5	903
398,840				

Treatment System

Totalizer (digital): 1,296,510 gal

GAC Lead Pressure: 40 psi
 GAC Polish Pressure: 0 psi
 Bag Filter 1 Pressure: 54 psi
 Bag Filter 2 Pressure: 54 psi
 Mixing Tank pH: _____
 Holding Tank pH: _____

Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Add Amendment to Holding Tank
_____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
50 lbs CBN nutrient mix
 _____ gal EZT-EA biosurfactant
 _____ cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 3/3/17

Field Tech: ALT

Time: 12:59

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	628,820	--	--	Fast } Same time
EX-22	472,350	--	--	
EX-21	638,150	--	--	
Injection				
IN-18 + 19	43,400			
IN-16	104,8320			
Trenches 2+3	393,660	2.6	2.4	
Trench 1 + IN 17	409,250	10	6.4	
IN 14 + 15	321,780	18	3.0	

Treatment System

Totalizer (digital): 1,326,080 gal

GAC Lead Pressure: 6 psi
 GAC Polish Pressure: 8 psi
 Bag Filter 1 Pressure: 0 psi
 Bag Filter 2 Pressure: 7 psi
 Mixing Tank pH: _____
 Holding Tank pH: _____

Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Add Amendment to Holding Tank
_____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
60 lbs CBN nutrient mix
0 gal EZT-EA biosurfactant
5 cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 3/15/17

Field Tech: Peter Sims

Time: 08:24

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	633190	--	--	
EX-22	477220	--	--	
EX-21	643720	--	--	
Injection				
IN-18 + 19	43650	26	3.0	
IN-16	104830	22	4.0	
Trenches 2+3	397100	20	4.8	
Trench 1 + IN 17	413680	20	4.4	
IN 14 +15	324040	26/22	2.4/3.6	

Treatment System

Totalizer (digital): 1336340 gal

GAC Lead Pressure: 6 psi

GAC Polish Pressure: 9 psi

Bag Filter 1 Pressure: 11 psi

Bag Filter 2 Pressure: 10 psi

Mixing Tank pH: —

Holding Tank pH: —

Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Add Amendment to Holding Tank
_____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
50 lbs CBN nutrient mix
_____ gal EZT-EA biosurfactant
_____ cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 3 / 28 / 17

Field Tech: ALT

Time: 11 : 00

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	635,690	--	--	
EX-22	399,250	--	--	→ 480,340
EX-21	646,850	--	--	
Injection				
IN-18 + 19	43,800	40	7	
IN-16	105,130	30	10	
Trenches 2+3	399,250	24	10	
Trench 1 + IN 17	416,230	24	10	
IN 14 + 15	325,280	28	10	

Treatment System

Totalizer: 1,345,790 gal

GAC Lead Pressure: 6 psi

GAC Polish Pressure: 0 psi

Bag Filter 1 Pressure: 16 psi

Bag Filter 2 Pressure: 14 psi

Mixing Tank pH: _____

Holding Tank pH: _____

Bi-Weekly Maintenance Checklist

- Check O2 Flow
 - Check All Flow Meters and Pressure Gauges
 - Check Dissolved Oxygen Pump Circuit Breaker
 - Add Amendment to Holding Tank
- _____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
- 50 lbs CBN nutrient mix
- 0 gal EZT-EA biosurfactant
- 0 cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

- 1100 - Arrive at site
- 1115 - O + M MATA
 - low pressure alarm
 - reset system
- 1130 - Add CBN
- 1140 - collect Eff
- 1142 - INF
- 1144 - GAC
 - open, label drum
- 1200 - Buy ziploc bags
- 1215 - Depart site
- 1240 - Arrive @ OFFICE

APPENDIX C

LABORATORY ANALYTICAL REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-76857-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
1/11/2017 3:11:54 PM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	12
QC Association Summary	21
Lab Chronicle	22
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	27

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Job ID: 720-76857-1

Laboratory: TestAmerica Pleasanton

Narrative

**Job Narrative
720-76857-1**

Comments

No additional comments.

Receipt

The samples were received on 1/5/2017 2:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Client Sample ID: INF

Lab Sample ID: 720-76857-1

No Detections.

Client Sample ID: GAC

Lab Sample ID: 720-76857-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.67		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	1.9		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	1.7		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	2.2		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	60		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: EFF

Lab Sample ID: 720-76857-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Client Sample ID: INF

Date Collected: 01/04/17 07:17

Date Received: 01/05/17 14:00

Lab Sample ID: 720-76857-1

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			01/10/17 23:45	1
Acetone	ND		50		ug/L			01/10/17 23:45	1
Benzene	ND		0.50		ug/L			01/10/17 23:45	1
Dichlorobromomethane	ND		0.50		ug/L			01/10/17 23:45	1
Bromobenzene	ND		1.0		ug/L			01/10/17 23:45	1
Chlorobromomethane	ND		1.0		ug/L			01/10/17 23:45	1
Bromoform	ND		1.0		ug/L			01/10/17 23:45	1
Bromomethane	ND		1.0		ug/L			01/10/17 23:45	1
2-Butanone (MEK)	ND		50		ug/L			01/10/17 23:45	1
n-Butylbenzene	ND		1.0		ug/L			01/10/17 23:45	1
sec-Butylbenzene	ND		1.0		ug/L			01/10/17 23:45	1
tert-Butylbenzene	ND		1.0		ug/L			01/10/17 23:45	1
Carbon disulfide	ND		5.0		ug/L			01/10/17 23:45	1
Carbon tetrachloride	ND		0.50		ug/L			01/10/17 23:45	1
Chlorobenzene	ND		0.50		ug/L			01/10/17 23:45	1
Chloroethane	ND		1.0		ug/L			01/10/17 23:45	1
Chloroform	ND		1.0		ug/L			01/10/17 23:45	1
Chloromethane	ND		1.0		ug/L			01/10/17 23:45	1
2-Chlorotoluene	ND		0.50		ug/L			01/10/17 23:45	1
4-Chlorotoluene	ND		0.50		ug/L			01/10/17 23:45	1
Chlorodibromomethane	ND		0.50		ug/L			01/10/17 23:45	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/10/17 23:45	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/10/17 23:45	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/10/17 23:45	1
1,3-Dichloropropane	ND		1.0		ug/L			01/10/17 23:45	1
1,1-Dichloropropane	ND		0.50		ug/L			01/10/17 23:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/10/17 23:45	1
Ethylene Dibromide	ND		0.50		ug/L			01/10/17 23:45	1
Dibromomethane	ND		0.50		ug/L			01/10/17 23:45	1
Dichlorodifluoromethane	ND		0.50		ug/L			01/10/17 23:45	1
1,1-Dichloroethane	ND		0.50		ug/L			01/10/17 23:45	1
1,2-Dichloroethane	ND		0.50		ug/L			01/10/17 23:45	1
1,1-Dichloroethene	ND		0.50		ug/L			01/10/17 23:45	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/10/17 23:45	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/10/17 23:45	1
1,2-Dichloropropane	ND		0.50		ug/L			01/10/17 23:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/10/17 23:45	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/10/17 23:45	1
Ethylbenzene	ND		0.50		ug/L			01/10/17 23:45	1
Hexachlorobutadiene	ND		1.0		ug/L			01/10/17 23:45	1
2-Hexanone	ND		50		ug/L			01/10/17 23:45	1
Isopropylbenzene	ND		0.50		ug/L			01/10/17 23:45	1
4-Isopropyltoluene	ND		1.0		ug/L			01/10/17 23:45	1
Methylene Chloride	ND		5.0		ug/L			01/10/17 23:45	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/10/17 23:45	1
Naphthalene	ND		1.0		ug/L			01/10/17 23:45	1
N-Propylbenzene	ND		1.0		ug/L			01/10/17 23:45	1
Styrene	ND		0.50		ug/L			01/10/17 23:45	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/10/17 23:45	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Client Sample ID: INF

Lab Sample ID: 720-76857-1

Date Collected: 01/04/17 07:17

Matrix: Water

Date Received: 01/05/17 14:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/10/17 23:45	1
Tetrachloroethene	ND		0.50		ug/L			01/10/17 23:45	1
Toluene	ND		0.50		ug/L			01/10/17 23:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/10/17 23:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/10/17 23:45	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/10/17 23:45	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/10/17 23:45	1
Trichloroethene	ND		0.50		ug/L			01/10/17 23:45	1
Trichlorofluoromethane	ND		1.0		ug/L			01/10/17 23:45	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/10/17 23:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/10/17 23:45	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/10/17 23:45	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/10/17 23:45	1
Vinyl acetate	ND		10		ug/L			01/10/17 23:45	1
Vinyl chloride	ND		0.50		ug/L			01/10/17 23:45	1
Xylenes, Total	ND		1.0		ug/L			01/10/17 23:45	1
2,2-Dichloropropane	ND		0.50		ug/L			01/10/17 23:45	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/10/17 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		67 - 130		01/10/17 23:45	1
1,2-Dichloroethane-d4 (Surr)	96		72 - 130		01/10/17 23:45	1
Toluene-d8 (Surr)	96		70 - 130		01/10/17 23:45	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Client Sample ID: GAC
Date Collected: 01/04/17 07:18
Date Received: 01/05/17 14:00

Lab Sample ID: 720-76857-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.67		0.50		ug/L			01/11/17 00:14	1
Acetone	ND		50		ug/L			01/11/17 00:14	1
Benzene	ND		0.50		ug/L			01/11/17 00:14	1
Dichlorobromomethane	ND		0.50		ug/L			01/11/17 00:14	1
Bromobenzene	ND		1.0		ug/L			01/11/17 00:14	1
Chlorobromomethane	ND		1.0		ug/L			01/11/17 00:14	1
Bromoform	ND		1.0		ug/L			01/11/17 00:14	1
Bromomethane	ND		1.0		ug/L			01/11/17 00:14	1
2-Butanone (MEK)	ND		50		ug/L			01/11/17 00:14	1
n-Butylbenzene	ND		1.0		ug/L			01/11/17 00:14	1
sec-Butylbenzene	ND		1.0		ug/L			01/11/17 00:14	1
tert-Butylbenzene	ND		1.0		ug/L			01/11/17 00:14	1
Carbon disulfide	ND		5.0		ug/L			01/11/17 00:14	1
Carbon tetrachloride	ND		0.50		ug/L			01/11/17 00:14	1
Chlorobenzene	ND		0.50		ug/L			01/11/17 00:14	1
Chloroethane	ND		1.0		ug/L			01/11/17 00:14	1
Chloroform	ND		1.0		ug/L			01/11/17 00:14	1
Chloromethane	ND		1.0		ug/L			01/11/17 00:14	1
2-Chlorotoluene	ND		0.50		ug/L			01/11/17 00:14	1
4-Chlorotoluene	ND		0.50		ug/L			01/11/17 00:14	1
Chlorodibromomethane	ND		0.50		ug/L			01/11/17 00:14	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/11/17 00:14	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/11/17 00:14	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/11/17 00:14	1
1,3-Dichloropropane	ND		1.0		ug/L			01/11/17 00:14	1
1,1-Dichloropropane	ND		0.50		ug/L			01/11/17 00:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/11/17 00:14	1
Ethylene Dibromide	ND		0.50		ug/L			01/11/17 00:14	1
Dibromomethane	ND		0.50		ug/L			01/11/17 00:14	1
Dichlorodifluoromethane	ND		0.50		ug/L			01/11/17 00:14	1
1,1-Dichloroethane	ND		0.50		ug/L			01/11/17 00:14	1
1,2-Dichloroethane	ND		0.50		ug/L			01/11/17 00:14	1
1,1-Dichloroethene	ND		0.50		ug/L			01/11/17 00:14	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/11/17 00:14	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/11/17 00:14	1
1,2-Dichloropropane	ND		0.50		ug/L			01/11/17 00:14	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/11/17 00:14	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/11/17 00:14	1
Ethylbenzene	ND		0.50		ug/L			01/11/17 00:14	1
Hexachlorobutadiene	ND		1.0		ug/L			01/11/17 00:14	1
2-Hexanone	ND		50		ug/L			01/11/17 00:14	1
Isopropylbenzene	ND		0.50		ug/L			01/11/17 00:14	1
4-Isopropyltoluene	ND		1.0		ug/L			01/11/17 00:14	1
Methylene Chloride	ND		5.0		ug/L			01/11/17 00:14	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/11/17 00:14	1
Naphthalene	1.9		1.0		ug/L			01/11/17 00:14	1
N-Propylbenzene	ND		1.0		ug/L			01/11/17 00:14	1
Styrene	ND		0.50		ug/L			01/11/17 00:14	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/11/17 00:14	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Client Sample ID: GAC

Lab Sample ID: 720-76857-2

Date Collected: 01/04/17 07:18

Matrix: Water

Date Received: 01/05/17 14:00

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/11/17 00:14	1
Tetrachloroethene	ND		0.50		ug/L			01/11/17 00:14	1
Toluene	ND		0.50		ug/L			01/11/17 00:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/11/17 00:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/11/17 00:14	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/11/17 00:14	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/11/17 00:14	1
Trichloroethene	ND		0.50		ug/L			01/11/17 00:14	1
Trichlorofluoromethane	ND		1.0		ug/L			01/11/17 00:14	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/11/17 00:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/11/17 00:14	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/11/17 00:14	1
1,3,5-Trimethylbenzene	1.7		0.50		ug/L			01/11/17 00:14	1
Vinyl acetate	ND		10		ug/L			01/11/17 00:14	1
Vinyl chloride	ND		0.50		ug/L			01/11/17 00:14	1
Xylenes, Total	2.2		1.0		ug/L			01/11/17 00:14	1
2,2-Dichloropropane	ND		0.50		ug/L			01/11/17 00:14	1
Gasoline Range Organics (GRO)	60		50		ug/L			01/11/17 00:14	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		67 - 130		01/11/17 00:14	1
1,2-Dichloroethane-d4 (Surr)	100		72 - 130		01/11/17 00:14	1
Toluene-d8 (Surr)	95		70 - 130		01/11/17 00:14	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Client Sample ID: EFF
Date Collected: 01/04/17 07:19
Date Received: 01/05/17 14:00

Lab Sample ID: 720-76857-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			01/10/17 23:16	1
Acetone	ND		50		ug/L			01/10/17 23:16	1
Benzene	ND		0.50		ug/L			01/10/17 23:16	1
Dichlorobromomethane	ND		0.50		ug/L			01/10/17 23:16	1
Bromobenzene	ND		1.0		ug/L			01/10/17 23:16	1
Chlorobromomethane	ND		1.0		ug/L			01/10/17 23:16	1
Bromoform	ND		1.0		ug/L			01/10/17 23:16	1
Bromomethane	ND		1.0		ug/L			01/10/17 23:16	1
2-Butanone (MEK)	ND		50		ug/L			01/10/17 23:16	1
n-Butylbenzene	ND		1.0		ug/L			01/10/17 23:16	1
sec-Butylbenzene	ND		1.0		ug/L			01/10/17 23:16	1
tert-Butylbenzene	ND		1.0		ug/L			01/10/17 23:16	1
Carbon disulfide	ND		5.0		ug/L			01/10/17 23:16	1
Carbon tetrachloride	ND		0.50		ug/L			01/10/17 23:16	1
Chlorobenzene	ND		0.50		ug/L			01/10/17 23:16	1
Chloroethane	ND		1.0		ug/L			01/10/17 23:16	1
Chloroform	ND		1.0		ug/L			01/10/17 23:16	1
Chloromethane	ND		1.0		ug/L			01/10/17 23:16	1
2-Chlorotoluene	ND		0.50		ug/L			01/10/17 23:16	1
4-Chlorotoluene	ND		0.50		ug/L			01/10/17 23:16	1
Chlorodibromomethane	ND		0.50		ug/L			01/10/17 23:16	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/10/17 23:16	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/10/17 23:16	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/10/17 23:16	1
1,3-Dichloropropane	ND		1.0		ug/L			01/10/17 23:16	1
1,1-Dichloropropene	ND		0.50		ug/L			01/10/17 23:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/10/17 23:16	1
Ethylene Dibromide	ND		0.50		ug/L			01/10/17 23:16	1
Dibromomethane	ND		0.50		ug/L			01/10/17 23:16	1
Dichlorodifluoromethane	ND		0.50		ug/L			01/10/17 23:16	1
1,1-Dichloroethane	ND		0.50		ug/L			01/10/17 23:16	1
1,2-Dichloroethane	ND		0.50		ug/L			01/10/17 23:16	1
1,1-Dichloroethene	ND		0.50		ug/L			01/10/17 23:16	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/10/17 23:16	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/10/17 23:16	1
1,2-Dichloropropane	ND		0.50		ug/L			01/10/17 23:16	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/10/17 23:16	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/10/17 23:16	1
Ethylbenzene	ND		0.50		ug/L			01/10/17 23:16	1
Hexachlorobutadiene	ND		1.0		ug/L			01/10/17 23:16	1
2-Hexanone	ND		50		ug/L			01/10/17 23:16	1
Isopropylbenzene	ND		0.50		ug/L			01/10/17 23:16	1
4-Isopropyltoluene	ND		1.0		ug/L			01/10/17 23:16	1
Methylene Chloride	ND		5.0		ug/L			01/10/17 23:16	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/10/17 23:16	1
Naphthalene	ND		1.0		ug/L			01/10/17 23:16	1
N-Propylbenzene	ND		1.0		ug/L			01/10/17 23:16	1
Styrene	ND		0.50		ug/L			01/10/17 23:16	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/10/17 23:16	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Client Sample ID: EFF
Date Collected: 01/04/17 07:19
Date Received: 01/05/17 14:00

Lab Sample ID: 720-76857-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/10/17 23:16	1
Tetrachloroethene	ND		0.50		ug/L			01/10/17 23:16	1
Toluene	ND		0.50		ug/L			01/10/17 23:16	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/10/17 23:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/10/17 23:16	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/10/17 23:16	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/10/17 23:16	1
Trichloroethene	ND		0.50		ug/L			01/10/17 23:16	1
Trichlorofluoromethane	ND		1.0		ug/L			01/10/17 23:16	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/10/17 23:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/10/17 23:16	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/10/17 23:16	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/10/17 23:16	1
Vinyl acetate	ND		10		ug/L			01/10/17 23:16	1
Vinyl chloride	ND		0.50		ug/L			01/10/17 23:16	1
Xylenes, Total	ND		1.0		ug/L			01/10/17 23:16	1
2,2-Dichloropropane	ND		0.50		ug/L			01/10/17 23:16	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/10/17 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		67 - 130		01/10/17 23:16	1
1,2-Dichloroethane-d4 (Surr)	99		72 - 130		01/10/17 23:16	1
Toluene-d8 (Surr)	96		70 - 130		01/10/17 23:16	1

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-216023/5

Matrix: Water

Analysis Batch: 216023

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			01/10/17 19:29	1
Acetone	ND		50		ug/L			01/10/17 19:29	1
Benzene	ND		0.50		ug/L			01/10/17 19:29	1
Dichlorobromomethane	ND		0.50		ug/L			01/10/17 19:29	1
Bromobenzene	ND		1.0		ug/L			01/10/17 19:29	1
Chlorobromomethane	ND		1.0		ug/L			01/10/17 19:29	1
Bromoform	ND		1.0		ug/L			01/10/17 19:29	1
Bromomethane	ND		1.0		ug/L			01/10/17 19:29	1
2-Butanone (MEK)	ND		50		ug/L			01/10/17 19:29	1
n-Butylbenzene	ND		1.0		ug/L			01/10/17 19:29	1
sec-Butylbenzene	ND		1.0		ug/L			01/10/17 19:29	1
tert-Butylbenzene	ND		1.0		ug/L			01/10/17 19:29	1
Carbon disulfide	ND		5.0		ug/L			01/10/17 19:29	1
Carbon tetrachloride	ND		0.50		ug/L			01/10/17 19:29	1
Chlorobenzene	ND		0.50		ug/L			01/10/17 19:29	1
Chloroethane	ND		1.0		ug/L			01/10/17 19:29	1
Chloroform	ND		1.0		ug/L			01/10/17 19:29	1
Chloromethane	ND		1.0		ug/L			01/10/17 19:29	1
2-Chlorotoluene	ND		0.50		ug/L			01/10/17 19:29	1
4-Chlorotoluene	ND		0.50		ug/L			01/10/17 19:29	1
Chlorodibromomethane	ND		0.50		ug/L			01/10/17 19:29	1
1,2-Dichlorobenzene	ND		0.50		ug/L			01/10/17 19:29	1
1,3-Dichlorobenzene	ND		0.50		ug/L			01/10/17 19:29	1
1,4-Dichlorobenzene	ND		0.50		ug/L			01/10/17 19:29	1
1,3-Dichloropropane	ND		1.0		ug/L			01/10/17 19:29	1
1,1-Dichloropropene	ND		0.50		ug/L			01/10/17 19:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			01/10/17 19:29	1
Ethylene Dibromide	ND		0.50		ug/L			01/10/17 19:29	1
Dibromomethane	ND		0.50		ug/L			01/10/17 19:29	1
Dichlorodifluoromethane	ND		0.50		ug/L			01/10/17 19:29	1
1,1-Dichloroethane	ND		0.50		ug/L			01/10/17 19:29	1
1,2-Dichloroethane	ND		0.50		ug/L			01/10/17 19:29	1
1,1-Dichloroethene	ND		0.50		ug/L			01/10/17 19:29	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			01/10/17 19:29	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			01/10/17 19:29	1
1,2-Dichloropropane	ND		0.50		ug/L			01/10/17 19:29	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			01/10/17 19:29	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			01/10/17 19:29	1
Ethylbenzene	ND		0.50		ug/L			01/10/17 19:29	1
Hexachlorobutadiene	ND		1.0		ug/L			01/10/17 19:29	1
2-Hexanone	ND		50		ug/L			01/10/17 19:29	1
Isopropylbenzene	ND		0.50		ug/L			01/10/17 19:29	1
4-Isopropyltoluene	ND		1.0		ug/L			01/10/17 19:29	1
Methylene Chloride	ND		5.0		ug/L			01/10/17 19:29	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/10/17 19:29	1
Naphthalene	ND		1.0		ug/L			01/10/17 19:29	1
N-Propylbenzene	ND		1.0		ug/L			01/10/17 19:29	1
Styrene	ND		0.50		ug/L			01/10/17 19:29	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-216023/5
Matrix: Water
Analysis Batch: 216023

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			01/10/17 19:29	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/10/17 19:29	1
Tetrachloroethene	ND		0.50		ug/L			01/10/17 19:29	1
Toluene	ND		0.50		ug/L			01/10/17 19:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/10/17 19:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/10/17 19:29	1
1,1,1-Trichloroethane	ND		0.50		ug/L			01/10/17 19:29	1
1,1,2-Trichloroethane	ND		0.50		ug/L			01/10/17 19:29	1
Trichloroethene	ND		0.50		ug/L			01/10/17 19:29	1
Trichlorofluoromethane	ND		1.0		ug/L			01/10/17 19:29	1
1,2,3-Trichloropropane	ND		0.50		ug/L			01/10/17 19:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			01/10/17 19:29	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			01/10/17 19:29	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			01/10/17 19:29	1
Vinyl acetate	ND		10		ug/L			01/10/17 19:29	1
Vinyl chloride	ND		0.50		ug/L			01/10/17 19:29	1
Xylenes, Total	ND		1.0		ug/L			01/10/17 19:29	1
2,2-Dichloropropane	ND		0.50		ug/L			01/10/17 19:29	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			01/10/17 19:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		67 - 130		01/10/17 19:29	1
1,2-Dichloroethane-d4 (Surr)	89		72 - 130		01/10/17 19:29	1
Toluene-d8 (Surr)	93		70 - 130		01/10/17 19:29	1

Lab Sample ID: LCS 720-216023/6
Matrix: Water
Analysis Batch: 216023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	22.2		ug/L		89	62 - 130
Acetone	125	150		ug/L		120	26 - 180
Benzene	25.0	25.1		ug/L		100	79 - 130
Dichlorobromomethane	25.0	23.1		ug/L		92	70 - 130
Bromobenzene	25.0	22.9		ug/L		92	70 - 130
Chlorobromomethane	25.0	21.7		ug/L		87	70 - 130
Bromoform	25.0	20.6		ug/L		82	68 - 136
Bromomethane	25.0	18.6		ug/L		74	43 - 151
2-Butanone (MEK)	125	139		ug/L		111	54 - 153
n-Butylbenzene	25.0	28.6		ug/L		114	70 - 142
sec-Butylbenzene	25.0	26.4		ug/L		106	70 - 134
tert-Butylbenzene	25.0	24.3		ug/L		97	70 - 135
Carbon disulfide	25.0	24.3		ug/L		97	68 - 146
Carbon tetrachloride	25.0	20.6		ug/L		82	70 - 146
Chlorobenzene	25.0	24.1		ug/L		96	70 - 130
Chloroethane	25.0	22.5		ug/L		90	62 - 138
Chloroform	25.0	22.9		ug/L		92	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-216023/6

Matrix: Water

Analysis Batch: 216023

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	22.6		ug/L		90	52 - 175
2-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130
4-Chlorotoluene	25.0	25.6		ug/L		102	70 - 130
Chlorodibromomethane	25.0	20.9		ug/L		84	70 - 145
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	24.5		ug/L		98	70 - 130
1,1-Dichloropropene	25.0	24.0		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.8		ug/L		91	70 - 136
Ethylene Dibromide	25.0	22.6		ug/L		90	70 - 130
Dibromomethane	25.0	23.8		ug/L		95	70 - 130
Dichlorodifluoromethane	25.0	12.5		ug/L		50	32 - 158
1,1-Dichloroethane	25.0	24.6		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	22.6		ug/L		91	61 - 132
1,1-Dichloroethene	25.0	23.1		ug/L		92	64 - 128
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	23.6		ug/L		94	68 - 130
1,2-Dichloropropane	25.0	27.4		ug/L		109	70 - 130
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	70 - 130
trans-1,3-Dichloropropene	25.0	22.6		ug/L		91	70 - 140
Ethylbenzene	25.0	25.0		ug/L		100	80 - 120
Hexachlorobutadiene	25.0	21.6		ug/L		86	70 - 130
2-Hexanone	125	139		ug/L		111	60 - 164
Isopropylbenzene	25.0	24.3		ug/L		97	70 - 130
4-Isopropyltoluene	25.0	24.7		ug/L		99	70 - 130
Methylene Chloride	25.0	24.1		ug/L		96	70 - 147
4-Methyl-2-pentanone (MIBK)	125	141		ug/L		113	50 - 155
Naphthalene	25.0	24.2		ug/L		97	50 - 130
N-Propylbenzene	25.0	28.1		ug/L		112	70 - 130
Styrene	25.0	23.4		ug/L		94	70 - 130
1,1,1,2-Tetrachloroethane	25.0	21.9		ug/L		88	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	28.2		ug/L		113	70 - 130
Tetrachloroethene	25.0	20.2		ug/L		81	70 - 130
Toluene	25.0	24.7		ug/L		99	78 - 120
1,2,3-Trichlorobenzene	25.0	22.0		ug/L		88	70 - 130
1,2,4-Trichlorobenzene	25.0	22.8		ug/L		91	70 - 130
1,1,1-Trichloroethane	25.0	21.0		ug/L		84	70 - 130
1,1,2-Trichloroethane	25.0	25.1		ug/L		100	70 - 130
Trichloroethene	25.0	21.6		ug/L		86	70 - 130
Trichlorofluoromethane	25.0	20.5		ug/L		82	66 - 132
1,2,3-Trichloropropane	25.0	24.8		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	19.2		ug/L		77	42 - 162
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 132
1,3,5-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130
Vinyl acetate	25.0	27.0		ug/L		108	43 - 163
Vinyl chloride	25.0	21.4		ug/L		86	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-216023/6
Matrix: Water
Analysis Batch: 216023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	24.3		ug/L		97	70 - 142
o-Xylene	25.0	24.1		ug/L		96	70 - 130
2,2-Dichloropropane	25.0	24.6		ug/L		98	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	92		67 - 130
1,2-Dichloroethane-d4 (Surr)	92		72 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: LCS 720-216023/8
Matrix: Water
Analysis Batch: 216023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	508		ug/L		102	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	91		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 720-216023/7
Matrix: Water
Analysis Batch: 216023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	22.2		ug/L		89	62 - 130	0	20
Acetone	125	143		ug/L		114	26 - 180	5	30
Benzene	25.0	25.0		ug/L		100	79 - 130	0	20
Dichlorobromomethane	25.0	23.3		ug/L		93	70 - 130	1	20
Bromobenzene	25.0	23.7		ug/L		95	70 - 130	4	20
Chlorobromomethane	25.0	22.4		ug/L		90	70 - 130	3	20
Bromoform	25.0	20.6		ug/L		83	68 - 136	0	20
Bromomethane	25.0	19.1		ug/L		76	43 - 151	3	20
2-Butanone (MEK)	125	134		ug/L		107	54 - 153	3	20
n-Butylbenzene	25.0	29.1		ug/L		117	70 - 142	2	20
sec-Butylbenzene	25.0	27.2		ug/L		109	70 - 134	3	20
tert-Butylbenzene	25.0	25.2		ug/L		101	70 - 135	3	20
Carbon disulfide	25.0	24.5		ug/L		98	68 - 146	1	20
Carbon tetrachloride	25.0	20.6		ug/L		82	70 - 146	0	20
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130	2	20
Chloroethane	25.0	23.2		ug/L		93	62 - 138	3	20
Chloroform	25.0	22.9		ug/L		91	70 - 130	0	20
Chloromethane	25.0	22.3		ug/L		89	52 - 175	1	20
2-Chlorotoluene	25.0	27.1		ug/L		108	70 - 130	4	20
4-Chlorotoluene	25.0	26.4		ug/L		106	70 - 130	3	20
Chlorodibromomethane	25.0	21.5		ug/L		86	70 - 145	3	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-216023/7

Matrix: Water

Analysis Batch: 216023

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130	1	20
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	3	20
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	3	20
1,3-Dichloropropane	25.0	24.2		ug/L		97	70 - 130	1	20
1,1-Dichloropropene	25.0	24.0		ug/L		96	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	22.2		ug/L		89	70 - 136	2	20
Ethylene Dibromide	25.0	22.0		ug/L		88	70 - 130	3	20
Dibromomethane	25.0	24.2		ug/L		97	70 - 130	1	20
Dichlorodifluoromethane	25.0	12.4		ug/L		50	32 - 158	1	20
1,1-Dichloroethane	25.0	24.9		ug/L		99	70 - 130	1	20
1,2-Dichloroethane	25.0	22.3		ug/L		89	61 - 132	1	20
1,1-Dichloroethene	25.0	23.2		ug/L		93	64 - 128	0	20
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	68 - 130	2	20
1,2-Dichloropropane	25.0	28.1		ug/L		112	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	22.9		ug/L		92	70 - 140	1	20
Ethylbenzene	25.0	25.2		ug/L		101	80 - 120	1	20
Hexachlorobutadiene	25.0	22.2		ug/L		89	70 - 130	3	20
2-Hexanone	125	127		ug/L		102	60 - 164	8	20
Isopropylbenzene	25.0	24.3		ug/L		97	70 - 130	0	20
4-Isopropyltoluene	25.0	25.6		ug/L		103	70 - 130	4	20
Methylene Chloride	25.0	24.5		ug/L		98	70 - 147	2	20
4-Methyl-2-pentanone (MIBK)	125	131		ug/L		105	50 - 155	7	20
Naphthalene	25.0	24.6		ug/L		99	50 - 130	2	20
N-Propylbenzene	25.0	28.8		ug/L		115	70 - 130	3	20
Styrene	25.0	23.7		ug/L		95	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	21.8		ug/L		87	70 - 130	0	20
1,1,1,2,2-Tetrachloroethane	25.0	27.9		ug/L		111	70 - 130	1	20
Tetrachloroethene	25.0	20.4		ug/L		82	70 - 130	1	20
Toluene	25.0	24.8		ug/L		99	78 - 120	0	20
1,2,3-Trichlorobenzene	25.0	23.3		ug/L		93	70 - 130	6	20
1,2,4-Trichlorobenzene	25.0	23.5		ug/L		94	70 - 130	3	20
1,1,1-Trichloroethane	25.0	21.4		ug/L		86	70 - 130	2	20
1,1,2-Trichloroethane	25.0	24.4		ug/L		98	70 - 130	3	20
Trichloroethene	25.0	21.4		ug/L		86	70 - 130	1	20
Trichlorofluoromethane	25.0	20.6		ug/L		82	66 - 132	0	20
1,2,3-Trichloropropane	25.0	25.1		ug/L		100	70 - 130	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	19.6		ug/L		78	42 - 162	2	20
1,2,4-Trimethylbenzene	25.0	25.8		ug/L		103	70 - 132	3	20
1,3,5-Trimethylbenzene	25.0	26.1		ug/L		104	70 - 130	3	20
Vinyl acetate	25.0	25.8		ug/L		103	43 - 163	5	20
Vinyl chloride	25.0	21.6		ug/L		86	54 - 135	1	20
m-Xylene & p-Xylene	25.0	24.2		ug/L		97	70 - 142	1	20
o-Xylene	25.0	23.7		ug/L		95	70 - 130	1	20
2,2-Dichloropropane	25.0	24.9		ug/L		100	70 - 140	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-216023/7
Matrix: Water
Analysis Batch: 216023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	91		67 - 130
1,2-Dichloroethane-d4 (Surr)	91		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 720-216023/9
Matrix: Water
Analysis Batch: 216023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Gasoline Range Organics (GRO) -C5-C12	500	529		ug/L		106	71 - 125	4	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	95		67 - 130
1,2-Dichloroethane-d4 (Surr)	93		72 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: 720-76857-2 MS
Matrix: Water
Analysis Batch: 216023

Client Sample ID: GAC
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Methyl tert-butyl ether	0.67		25.0	23.2		ug/L		90	60 - 138
Acetone	ND		125	138		ug/L		110	60 - 140
Benzene	ND		25.0	25.4		ug/L		102	60 - 140
Dichlorobromomethane	ND		25.0	24.3		ug/L		97	60 - 140
Bromobenzene	ND		25.0	23.0		ug/L		92	60 - 140
Chlorobromomethane	ND		25.0	22.0		ug/L		88	60 - 140
Bromoform	ND		25.0	21.1		ug/L		84	56 - 140
Bromomethane	ND		25.0	16.1		ug/L		64	23 - 140
2-Butanone (MEK)	ND		125	142		ug/L		113	60 - 140
n-Butylbenzene	ND		25.0	27.7		ug/L		111	60 - 140
sec-Butylbenzene	ND		25.0	26.3		ug/L		105	60 - 140
tert-Butylbenzene	ND		25.0	24.7		ug/L		99	60 - 140
Carbon disulfide	ND		25.0	24.1		ug/L		96	38 - 140
Carbon tetrachloride	ND		25.0	20.3		ug/L		81	60 - 140
Chlorobenzene	ND		25.0	24.4		ug/L		97	60 - 140
Chloroethane	ND		25.0	21.7		ug/L		87	51 - 140
Chloroform	ND		25.0	23.2		ug/L		93	60 - 140
Chloromethane	ND		25.0	22.2		ug/L		89	52 - 140
2-Chlorotoluene	ND		25.0	26.3		ug/L		105	60 - 140
4-Chlorotoluene	ND		25.0	25.8		ug/L		103	60 - 140
Chlorodibromomethane	ND		25.0	22.1		ug/L		88	60 - 140
1,2-Dichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140
1,3-Dichlorobenzene	ND		25.0	24.1		ug/L		96	60 - 140
1,4-Dichlorobenzene	ND		25.0	25.0		ug/L		100	60 - 140
1,3-Dichloropropane	ND		25.0	25.8		ug/L		103	60 - 140
1,1-Dichloropropene	ND		25.0	24.3		ug/L		97	60 - 140

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-76857-2 MS

Matrix: Water

Analysis Batch: 216023

Client Sample ID: GAC

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		25.0	23.7		ug/L		95	60 - 140
Ethylene Dibromide	ND		25.0	23.5		ug/L		94	60 - 140
Dibromomethane	ND		25.0	25.0		ug/L		100	60 - 140
Dichlorodifluoromethane	ND		25.0	11.7		ug/L		47	38 - 140
1,1-Dichloroethane	ND		25.0	25.2		ug/L		101	60 - 140
1,2-Dichloroethane	ND		25.0	23.6		ug/L		94	60 - 140
1,1-Dichloroethene	ND		25.0	21.9		ug/L		88	60 - 140
cis-1,2-Dichloroethene	ND		25.0	25.9		ug/L		103	60 - 140
trans-1,2-Dichloroethene	ND		25.0	22.7		ug/L		91	60 - 140
1,2-Dichloropropane	ND		25.0	28.9		ug/L		116	60 - 140
cis-1,3-Dichloropropene	ND		25.0	25.8		ug/L		103	60 - 140
trans-1,3-Dichloropropene	ND		25.0	23.7		ug/L		95	60 - 140
Ethylbenzene	ND		25.0	24.8		ug/L		99	60 - 140
Hexachlorobutadiene	ND		25.0	21.6		ug/L		86	60 - 140
2-Hexanone	ND		125	140		ug/L		112	60 - 140
Isopropylbenzene	ND		25.0	23.7		ug/L		95	60 - 140
4-Isopropyltoluene	ND		25.0	24.7		ug/L		99	60 - 140
Methylene Chloride	ND		25.0	24.7		ug/L		99	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	145		ug/L		116	58 - 130
Naphthalene	1.9		25.0	25.6		ug/L		95	56 - 140
N-Propylbenzene	ND		25.0	27.7		ug/L		111	60 - 140
Styrene	ND		25.0	23.4		ug/L		94	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	22.3		ug/L		89	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	28.9		ug/L		115	60 - 140
Tetrachloroethene	ND		25.0	19.8		ug/L		79	60 - 140
Toluene	ND		25.0	24.5		ug/L		98	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	24.0		ug/L		96	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	23.9		ug/L		96	60 - 140
1,1,1-Trichloroethane	ND		25.0	21.1		ug/L		84	60 - 140
1,1,2-Trichloroethane	ND		25.0	26.0		ug/L		104	60 - 140
Trichloroethene	ND		25.0	21.7		ug/L		87	60 - 140
Trichlorofluoromethane	ND		25.0	19.7		ug/L		79	60 - 140
1,2,3-Trichloropropane	ND		25.0	25.8		ug/L		103	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	18.7		ug/L		75	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	25.4		ug/L		102	60 - 140
1,3,5-Trimethylbenzene	1.7		25.0	25.1		ug/L		94	60 - 140
Vinyl acetate	ND		25.0	27.0		ug/L		108	40 - 140
Vinyl chloride	ND		25.0	20.4		ug/L		82	58 - 140
m-Xylene & p-Xylene	1.4		25.0	23.7		ug/L		89	60 - 140
o-Xylene	0.85		25.0	23.9		ug/L		92	60 - 140
2,2-Dichloropropane	ND		25.0	23.7		ug/L		95	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	97		72 - 130
Toluene-d8 (Surr)	97		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-76857-2 MSD

Matrix: Water

Analysis Batch: 216023

Client Sample ID: GAC

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	0.67		25.0	23.3		ug/L		91	60 - 138	1	20
Acetone	ND		125	131		ug/L		105	60 - 140	5	20
Benzene	ND		25.0	25.1		ug/L		100	60 - 140	1	20
Dichlorobromomethane	ND		25.0	23.8		ug/L		95	60 - 140	2	20
Bromobenzene	ND		25.0	23.7		ug/L		95	60 - 140	3	20
Chlorobromomethane	ND		25.0	22.6		ug/L		91	60 - 140	3	20
Bromoform	ND		25.0	21.4		ug/L		86	56 - 140	2	20
Bromomethane	ND		25.0	18.0		ug/L		72	23 - 140	11	20
2-Butanone (MEK)	ND		125	144		ug/L		115	60 - 140	2	20
n-Butylbenzene	ND		25.0	27.7		ug/L		111	60 - 140	0	20
sec-Butylbenzene	ND		25.0	26.3		ug/L		105	60 - 140	0	20
tert-Butylbenzene	ND		25.0	24.9		ug/L		100	60 - 140	1	20
Carbon disulfide	ND		25.0	24.2		ug/L		97	38 - 140	0	20
Carbon tetrachloride	ND		25.0	20.4		ug/L		82	60 - 140	1	20
Chlorobenzene	ND		25.0	24.4		ug/L		98	60 - 140	0	20
Chloroethane	ND		25.0	22.4		ug/L		90	51 - 140	4	20
Chloroform	ND		25.0	23.4		ug/L		94	60 - 140	1	20
Chloromethane	ND		25.0	22.3		ug/L		89	52 - 140	0	20
2-Chlorotoluene	ND		25.0	26.6		ug/L		106	60 - 140	1	20
4-Chlorotoluene	ND		25.0	25.8		ug/L		103	60 - 140	0	20
Chlorodibromomethane	ND		25.0	21.8		ug/L		87	60 - 140	1	20
1,2-Dichlorobenzene	ND		25.0	25.6		ug/L		102	60 - 140	1	20
1,3-Dichlorobenzene	ND		25.0	24.5		ug/L		98	60 - 140	2	20
1,4-Dichlorobenzene	ND		25.0	24.9		ug/L		100	60 - 140	0	20
1,3-Dichloropropane	ND		25.0	24.9		ug/L		100	60 - 140	3	20
1,1-Dichloropropene	ND		25.0	24.0		ug/L		96	60 - 140	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	25.1		ug/L		100	60 - 140	6	20
Ethylene Dibromide	ND		25.0	23.2		ug/L		93	60 - 140	1	20
Dibromomethane	ND		25.0	24.9		ug/L		100	60 - 140	0	20
Dichlorodifluoromethane	ND		25.0	11.8		ug/L		47	38 - 140	1	20
1,1-Dichloroethane	ND		25.0	25.1		ug/L		100	60 - 140	1	20
1,2-Dichloroethane	ND		25.0	23.3		ug/L		93	60 - 140	1	20
1,1-Dichloroethene	ND		25.0	22.6		ug/L		90	60 - 140	3	20
cis-1,2-Dichloroethene	ND		25.0	25.4		ug/L		101	60 - 140	2	20
trans-1,2-Dichloroethene	ND		25.0	23.9		ug/L		96	60 - 140	5	20
1,2-Dichloropropane	ND		25.0	28.0		ug/L		112	60 - 140	3	20
cis-1,3-Dichloropropene	ND		25.0	25.7		ug/L		103	60 - 140	0	20
trans-1,3-Dichloropropene	ND		25.0	23.7		ug/L		95	60 - 140	0	20
Ethylbenzene	ND		25.0	24.7		ug/L		99	60 - 140	0	20
Hexachlorobutadiene	ND		25.0	22.0		ug/L		88	60 - 140	2	20
2-Hexanone	ND		125	138		ug/L		110	60 - 140	2	20
Isopropylbenzene	ND		25.0	23.7		ug/L		95	60 - 140	0	20
4-Isopropyltoluene	ND		25.0	24.9		ug/L		100	60 - 140	1	20
Methylene Chloride	ND		25.0	24.4		ug/L		97	40 - 140	1	20
4-Methyl-2-pentanone (MIBK)	ND		125	142		ug/L		114	58 - 130	2	20
Naphthalene	1.9		25.0	26.1		ug/L		97	56 - 140	2	20
N-Propylbenzene	ND		25.0	28.0		ug/L		112	60 - 140	1	20
Styrene	ND		25.0	23.6		ug/L		94	60 - 140	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-76857-2 MSD
Matrix: Water
Analysis Batch: 216023

Client Sample ID: GAC
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1,1,2-Tetrachloroethane	ND		25.0	22.2		ug/L		89	60 - 140	0	20
1,1,2,2-Tetrachloroethane	ND		25.0	28.9		ug/L		116	60 - 140	0	20
Tetrachloroethene	ND		25.0	19.8		ug/L		79	60 - 140	0	20
Toluene	ND		25.0	24.7		ug/L		99	60 - 140	1	20
1,2,3-Trichlorobenzene	ND		25.0	24.4		ug/L		97	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		25.0	24.0		ug/L		96	60 - 140	0	20
1,1,1-Trichloroethane	ND		25.0	20.9		ug/L		84	60 - 140	1	20
1,1,2-Trichloroethane	ND		25.0	25.7		ug/L		103	60 - 140	1	20
Trichloroethene	ND		25.0	21.0		ug/L		84	60 - 140	3	20
Trichlorofluoromethane	ND		25.0	19.6		ug/L		78	60 - 140	0	20
1,2,3-Trichloropropane	ND		25.0	25.5		ug/L		102	60 - 140	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	18.8		ug/L		75	60 - 140	0	20
1,2,4-Trimethylbenzene	ND		25.0	25.4		ug/L		102	60 - 140	0	20
1,3,5-Trimethylbenzene	1.7		25.0	25.5		ug/L		95	60 - 140	1	20
Vinyl acetate	ND		25.0	26.9		ug/L		108	40 - 140	0	20
Vinyl chloride	ND		25.0	21.0		ug/L		84	58 - 140	3	20
m-Xylene & p-Xylene	1.4		25.0	23.9		ug/L		90	60 - 140	1	20
o-Xylene	0.85		25.0	23.8		ug/L		92	60 - 140	0	20
2,2-Dichloropropane	ND		25.0	23.5		ug/L		94	60 - 140	1	20
Surrogate		MSD		MSD				%Recovery			Limits
4-Bromofluorobenzene		92									67 - 130
1,2-Dichloroethane-d4 (Surr)		93									72 - 130
Toluene-d8 (Surr)		97									70 - 130

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

GC/MS VOA

Analysis Batch: 216023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76857-1	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-76857-2	GAC	Total/NA	Water	8260B/CA_LUFT MS	
720-76857-3	EFF	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-216023/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-216023/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-216023/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-216023/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-216023/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-76857-2 MS	GAC	Total/NA	Water	8260B/CA_LUFT MS	
720-76857-2 MSD	GAC	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Client Sample ID: INF

Date Collected: 01/04/17 07:17

Date Received: 01/05/17 14:00

Lab Sample ID: 720-76857-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	216023	01/10/17 23:45	JRM	TAL PLS

Client Sample ID: GAC

Date Collected: 01/04/17 07:18

Date Received: 01/05/17 14:00

Lab Sample ID: 720-76857-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	216023	01/11/17 00:14	JRM	TAL PLS

Client Sample ID: EFF

Date Collected: 01/04/17 07:19

Date Received: 01/05/17 14:00

Lab Sample ID: 720-76857-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	216023	01/10/17 23:16	JRM	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-18

Analysis Method	Prep Method	Matrix	Analyte
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76857-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-76857-1	INF	Water	01/04/17 07:17	01/05/17 14:00
720-76857-2	GAC	Water	01/04/17 07:18	01/05/17 14:00
720-76857-3	EFF	Water	01/04/17 07:19	01/05/17 14:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

1220 Quarry Lane

Pleasanton, CA 94566
phone 925.484.1919 fax

720-76857

Regulatory Program: DW NPDES RCRA Other:

TestAmerica Laboratories, Inc.

Client Contact

Project Manager: Paloma Duong
Tel/Fax: 510-343-3000

Site Contact: Peter Sims
Lab Contact:

Date: 1/4/17
Carrier:

COC No: 1
1 of 1 COCs

Analysis Turnaround Time

CALENDAR DAYS WORKING DAYS
TAT if different from Below

1956 Webster Street, Ste. 400
Oakland, CA 946501
510-343-3000 Phone
510-343-3001 FAX

Project Name: Chun
Site: 2301 Santa Clara Avenue
P O # 401896004

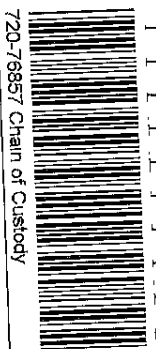
2 weeks
 1 week
 2 days
 1 day

Sample Identification

Sample Date	Sample Time	Sample Type (Col-comp, Gen-eral)	Matrix	# of Cont.
1/4/17	0717	6	W	3
1/4/17	0718	6	W	3
1/4/17	0719	6	W	3

Filtered Sample (Y / N)
Perform MS / MSD (Y / N)
Title 22 Metals by EPA 6010/7471
TPHd and TPHmo by EPA 8015B
VOCs and TPHg by EPA 8260B
OCPs by EPA 8081

Sample Specific Notes:



Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other 1/2
Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Non-hazard Flammable Skin Irritant Poison B Unknown
 Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:

173325

S-9c

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temp. (°C): Obsd.:

Cont'd.:

Therm ID No.:

Relinquished by:

Paloma Duong

Company:

Nimmo + Moore

Received by:

Paloma Duong

Company:

1/5/17 1025

Relinquished by:

Paloma Duong

Company:

Nimmo + Moore

Received by:

Paloma Duong

Company:

1/5/17 1400

Relinquished by:

Paloma Duong

Company:

Nimmo + Moore

Received in Laboratory by:

Paloma Duong

Company:

1/5/17 1400

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-76857-1

Login Number: 76857

List Number: 1

Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-77439-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
2/8/2017 2:45:28 PM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

LINKS

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results through
TotalAccess

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Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	12
QC Association Summary	23
Lab Chronicle	24
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	29

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Job ID: 720-77439-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-77439-1

Comments

No additional comments.

Receipt

The samples were received on 2/1/2017 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

GC/MS VOA

Method 8260B: Surrogate 1,2-Dichloroethane-d4 (Surr) recovery was outside the lower control limit in the laboratory control sample duplicate, matrix sample, and matrix sample duplicate (LCSD/MS/MSD). All other quality control measure including the surrogates in the associated sample is within control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Client Sample ID: EFF

Lab Sample ID: 720-77439-1

No Detections.

Client Sample ID: GAC

Lab Sample ID: 720-77439-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	3.0		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	0.62		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	2.8		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	13		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	120		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: INF

Lab Sample ID: 720-77439-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	4.4		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	0.55		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	2.9		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	13		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	86		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Client Sample ID: EFF
Date Collected: 02/01/17 13:35
Date Received: 02/01/17 16:40

Lab Sample ID: 720-77439-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/02/17 22:08	1
Acetone	ND		50		ug/L			02/02/17 22:08	1
Benzene	ND		0.50		ug/L			02/02/17 22:08	1
Dichlorobromomethane	ND		0.50		ug/L			02/02/17 22:08	1
Bromobenzene	ND		1.0		ug/L			02/02/17 22:08	1
Chlorobromomethane	ND		1.0		ug/L			02/02/17 22:08	1
Bromoform	ND		1.0		ug/L			02/02/17 22:08	1
Bromomethane	ND		1.0		ug/L			02/02/17 22:08	1
2-Butanone (MEK)	ND		50		ug/L			02/02/17 22:08	1
n-Butylbenzene	ND		1.0		ug/L			02/02/17 22:08	1
sec-Butylbenzene	ND		1.0		ug/L			02/02/17 22:08	1
tert-Butylbenzene	ND		1.0		ug/L			02/02/17 22:08	1
Carbon disulfide	ND		5.0		ug/L			02/02/17 22:08	1
Carbon tetrachloride	ND		0.50		ug/L			02/02/17 22:08	1
Chlorobenzene	ND		0.50		ug/L			02/02/17 22:08	1
Chloroethane	ND		1.0		ug/L			02/02/17 22:08	1
Chloroform	ND		1.0		ug/L			02/02/17 22:08	1
Chloromethane	ND		1.0		ug/L			02/02/17 22:08	1
2-Chlorotoluene	ND		0.50		ug/L			02/02/17 22:08	1
4-Chlorotoluene	ND		0.50		ug/L			02/02/17 22:08	1
Chlorodibromomethane	ND		0.50		ug/L			02/02/17 22:08	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/02/17 22:08	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/02/17 22:08	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/02/17 22:08	1
1,3-Dichloropropane	ND		1.0		ug/L			02/02/17 22:08	1
1,1-Dichloropropene	ND		0.50		ug/L			02/02/17 22:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/02/17 22:08	1
Ethylene Dibromide	ND		0.50		ug/L			02/02/17 22:08	1
Dibromomethane	ND		0.50		ug/L			02/02/17 22:08	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/02/17 22:08	1
1,1-Dichloroethane	ND		0.50		ug/L			02/02/17 22:08	1
1,2-Dichloroethane	ND		0.50		ug/L			02/02/17 22:08	1
1,1-Dichloroethene	ND		0.50		ug/L			02/02/17 22:08	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/02/17 22:08	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/02/17 22:08	1
1,2-Dichloropropane	ND		0.50		ug/L			02/02/17 22:08	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/02/17 22:08	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/02/17 22:08	1
Ethylbenzene	ND		0.50		ug/L			02/02/17 22:08	1
Hexachlorobutadiene	ND		1.0		ug/L			02/02/17 22:08	1
2-Hexanone	ND		50		ug/L			02/02/17 22:08	1
Isopropylbenzene	ND		0.50		ug/L			02/02/17 22:08	1
4-Isopropyltoluene	ND		1.0		ug/L			02/02/17 22:08	1
Methylene Chloride	ND		5.0		ug/L			02/02/17 22:08	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/02/17 22:08	1
Naphthalene	ND		1.0		ug/L			02/02/17 22:08	1
N-Propylbenzene	ND		1.0		ug/L			02/02/17 22:08	1
Styrene	ND		0.50		ug/L			02/02/17 22:08	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/02/17 22:08	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Client Sample ID: EFF
Date Collected: 02/01/17 13:35
Date Received: 02/01/17 16:40

Lab Sample ID: 720-77439-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/02/17 22:08	1
Tetrachloroethene	ND		0.50		ug/L			02/02/17 22:08	1
Toluene	ND		0.50		ug/L			02/02/17 22:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/02/17 22:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/02/17 22:08	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/02/17 22:08	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/02/17 22:08	1
Trichloroethene	ND		0.50		ug/L			02/02/17 22:08	1
Trichlorofluoromethane	ND		1.0		ug/L			02/02/17 22:08	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/02/17 22:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/02/17 22:08	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/02/17 22:08	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/02/17 22:08	1
Vinyl acetate	ND		10		ug/L			02/02/17 22:08	1
Vinyl chloride	ND		0.50		ug/L			02/02/17 22:08	1
Xylenes, Total	ND		1.0		ug/L			02/02/17 22:08	1
2,2-Dichloropropane	ND		0.50		ug/L			02/02/17 22:08	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/02/17 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		67 - 130		02/02/17 22:08	1
1,2-Dichloroethane-d4 (Surr)	106		72 - 130		02/02/17 22:08	1
Toluene-d8 (Surr)	94		70 - 130		02/02/17 22:08	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Client Sample ID: GAC
Date Collected: 02/01/17 13:37
Date Received: 02/01/17 16:40

Lab Sample ID: 720-77439-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/03/17 04:19	1
Acetone	ND		50		ug/L			02/03/17 04:19	1
Benzene	1.2		0.50		ug/L			02/03/17 04:19	1
Dichlorobromomethane	ND		0.50		ug/L			02/03/17 04:19	1
Bromobenzene	ND		1.0		ug/L			02/03/17 04:19	1
Chlorobromomethane	ND		1.0		ug/L			02/03/17 04:19	1
Bromoform	ND		1.0		ug/L			02/03/17 04:19	1
Bromomethane	ND		1.0		ug/L			02/03/17 04:19	1
2-Butanone (MEK)	ND		50		ug/L			02/03/17 04:19	1
n-Butylbenzene	ND		1.0		ug/L			02/03/17 04:19	1
sec-Butylbenzene	ND		1.0		ug/L			02/03/17 04:19	1
tert-Butylbenzene	ND		1.0		ug/L			02/03/17 04:19	1
Carbon disulfide	ND		5.0		ug/L			02/03/17 04:19	1
Carbon tetrachloride	ND		0.50		ug/L			02/03/17 04:19	1
Chlorobenzene	ND		0.50		ug/L			02/03/17 04:19	1
Chloroethane	ND		1.0		ug/L			02/03/17 04:19	1
Chloroform	ND		1.0		ug/L			02/03/17 04:19	1
Chloromethane	ND		1.0		ug/L			02/03/17 04:19	1
2-Chlorotoluene	ND		0.50		ug/L			02/03/17 04:19	1
4-Chlorotoluene	ND		0.50		ug/L			02/03/17 04:19	1
Chlorodibromomethane	ND		0.50		ug/L			02/03/17 04:19	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/03/17 04:19	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/03/17 04:19	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/03/17 04:19	1
1,3-Dichloropropane	ND		1.0		ug/L			02/03/17 04:19	1
1,1-Dichloropropane	ND		0.50		ug/L			02/03/17 04:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/03/17 04:19	1
Ethylene Dibromide	ND		0.50		ug/L			02/03/17 04:19	1
Dibromomethane	ND		0.50		ug/L			02/03/17 04:19	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/03/17 04:19	1
1,1-Dichloroethane	ND		0.50		ug/L			02/03/17 04:19	1
1,2-Dichloroethane	ND		0.50		ug/L			02/03/17 04:19	1
1,1-Dichloroethene	ND		0.50		ug/L			02/03/17 04:19	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/03/17 04:19	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/03/17 04:19	1
1,2-Dichloropropane	ND		0.50		ug/L			02/03/17 04:19	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/03/17 04:19	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/03/17 04:19	1
Ethylbenzene	ND		0.50		ug/L			02/03/17 04:19	1
Hexachlorobutadiene	ND		1.0		ug/L			02/03/17 04:19	1
2-Hexanone	ND		50		ug/L			02/03/17 04:19	1
Isopropylbenzene	ND		0.50		ug/L			02/03/17 04:19	1
4-Isopropyltoluene	ND		1.0		ug/L			02/03/17 04:19	1
Methylene Chloride	ND		5.0		ug/L			02/03/17 04:19	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/03/17 04:19	1
Naphthalene	3.0		1.0		ug/L			02/03/17 04:19	1
N-Propylbenzene	ND		1.0		ug/L			02/03/17 04:19	1
Styrene	ND		0.50		ug/L			02/03/17 04:19	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/03/17 04:19	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Client Sample ID: GAC

Lab Sample ID: 720-77439-2

Date Collected: 02/01/17 13:37

Matrix: Water

Date Received: 02/01/17 16:40

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/03/17 04:19	1
Tetrachloroethene	ND		0.50		ug/L			02/03/17 04:19	1
Toluene	0.62		0.50		ug/L			02/03/17 04:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/03/17 04:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/03/17 04:19	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/03/17 04:19	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/03/17 04:19	1
Trichloroethene	ND		0.50		ug/L			02/03/17 04:19	1
Trichlorofluoromethane	ND		1.0		ug/L			02/03/17 04:19	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/03/17 04:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/03/17 04:19	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/03/17 04:19	1
1,3,5-Trimethylbenzene	2.8		0.50		ug/L			02/03/17 04:19	1
Vinyl acetate	ND		10		ug/L			02/03/17 04:19	1
Vinyl chloride	ND		0.50		ug/L			02/03/17 04:19	1
Xylenes, Total	13		1.0		ug/L			02/03/17 04:19	1
2,2-Dichloropropane	ND		0.50		ug/L			02/03/17 04:19	1
Gasoline Range Organics (GRO)	120		50		ug/L			02/03/17 04:19	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130		02/03/17 04:19	1
1,2-Dichloroethane-d4 (Surr)	113		72 - 130		02/03/17 04:19	1
Toluene-d8 (Surr)	95		70 - 130		02/03/17 04:19	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Client Sample ID: INF

Date Collected: 02/01/17 13:39

Date Received: 02/01/17 16:40

Lab Sample ID: 720-77439-3

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/07/17 18:08	1
Acetone	ND		50		ug/L			02/07/17 18:08	1
Benzene	1.3		0.50		ug/L			02/07/17 18:08	1
Dichlorobromomethane	ND		0.50		ug/L			02/07/17 18:08	1
Bromobenzene	ND		1.0		ug/L			02/07/17 18:08	1
Chlorobromomethane	ND		1.0		ug/L			02/07/17 18:08	1
Bromoform	ND		1.0		ug/L			02/07/17 18:08	1
Bromomethane	ND		1.0		ug/L			02/07/17 18:08	1
2-Butanone (MEK)	ND		50		ug/L			02/07/17 18:08	1
n-Butylbenzene	ND		1.0		ug/L			02/07/17 18:08	1
sec-Butylbenzene	ND		1.0		ug/L			02/07/17 18:08	1
tert-Butylbenzene	ND		1.0		ug/L			02/07/17 18:08	1
Carbon disulfide	ND		5.0		ug/L			02/07/17 18:08	1
Carbon tetrachloride	ND		0.50		ug/L			02/07/17 18:08	1
Chlorobenzene	ND		0.50		ug/L			02/07/17 18:08	1
Chloroethane	ND		1.0		ug/L			02/07/17 18:08	1
Chloroform	ND		1.0		ug/L			02/07/17 18:08	1
Chloromethane	ND		1.0		ug/L			02/07/17 18:08	1
2-Chlorotoluene	ND		0.50		ug/L			02/07/17 18:08	1
4-Chlorotoluene	ND		0.50		ug/L			02/07/17 18:08	1
Chlorodibromomethane	ND		0.50		ug/L			02/07/17 18:08	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/07/17 18:08	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/07/17 18:08	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/07/17 18:08	1
1,3-Dichloropropane	ND		1.0		ug/L			02/07/17 18:08	1
1,1-Dichloropropane	ND		0.50		ug/L			02/07/17 18:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/07/17 18:08	1
Ethylene Dibromide	ND		0.50		ug/L			02/07/17 18:08	1
Dibromomethane	ND		0.50		ug/L			02/07/17 18:08	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/07/17 18:08	1
1,1-Dichloroethane	ND		0.50		ug/L			02/07/17 18:08	1
1,2-Dichloroethane	ND		0.50		ug/L			02/07/17 18:08	1
1,1-Dichloroethene	ND		0.50		ug/L			02/07/17 18:08	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/07/17 18:08	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/07/17 18:08	1
1,2-Dichloropropane	ND		0.50		ug/L			02/07/17 18:08	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/07/17 18:08	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/07/17 18:08	1
Ethylbenzene	ND		0.50		ug/L			02/07/17 18:08	1
Hexachlorobutadiene	ND		1.0		ug/L			02/07/17 18:08	1
2-Hexanone	ND		50		ug/L			02/07/17 18:08	1
Isopropylbenzene	ND		0.50		ug/L			02/07/17 18:08	1
4-Isopropyltoluene	ND		1.0		ug/L			02/07/17 18:08	1
Methylene Chloride	ND		5.0		ug/L			02/07/17 18:08	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/07/17 18:08	1
Naphthalene	4.4		1.0		ug/L			02/07/17 18:08	1
N-Propylbenzene	ND		1.0		ug/L			02/07/17 18:08	1
Styrene	ND		0.50		ug/L			02/07/17 18:08	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/07/17 18:08	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Client Sample ID: INF

Lab Sample ID: 720-77439-3

Date Collected: 02/01/17 13:39

Matrix: Water

Date Received: 02/01/17 16:40

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/07/17 18:08	1
Tetrachloroethene	ND		0.50		ug/L			02/07/17 18:08	1
Toluene	0.55		0.50		ug/L			02/07/17 18:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/07/17 18:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/07/17 18:08	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/07/17 18:08	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/07/17 18:08	1
Trichloroethene	ND		0.50		ug/L			02/07/17 18:08	1
Trichlorofluoromethane	ND		1.0		ug/L			02/07/17 18:08	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/07/17 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/07/17 18:08	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/07/17 18:08	1
1,3,5-Trimethylbenzene	2.9		0.50		ug/L			02/07/17 18:08	1
Vinyl acetate	ND		10		ug/L			02/07/17 18:08	1
Vinyl chloride	ND		0.50		ug/L			02/07/17 18:08	1
Xylenes, Total	13		1.0		ug/L			02/07/17 18:08	1
2,2-Dichloropropane	ND		0.50		ug/L			02/07/17 18:08	1
Gasoline Range Organics (GRO)	86		50		ug/L			02/07/17 18:08	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		67 - 130		02/07/17 18:08	1
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		02/07/17 18:08	1
Toluene-d8 (Surr)	95		70 - 130		02/07/17 18:08	1

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-217349/5

Matrix: Water

Analysis Batch: 217349

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/02/17 19:17	1
Acetone	ND		50		ug/L			02/02/17 19:17	1
Benzene	ND		0.50		ug/L			02/02/17 19:17	1
Dichlorobromomethane	ND		0.50		ug/L			02/02/17 19:17	1
Bromobenzene	ND		1.0		ug/L			02/02/17 19:17	1
Chlorobromomethane	ND		1.0		ug/L			02/02/17 19:17	1
Bromoform	ND		1.0		ug/L			02/02/17 19:17	1
Bromomethane	ND		1.0		ug/L			02/02/17 19:17	1
2-Butanone (MEK)	ND		50		ug/L			02/02/17 19:17	1
n-Butylbenzene	ND		1.0		ug/L			02/02/17 19:17	1
sec-Butylbenzene	ND		1.0		ug/L			02/02/17 19:17	1
tert-Butylbenzene	ND		1.0		ug/L			02/02/17 19:17	1
Carbon disulfide	ND		5.0		ug/L			02/02/17 19:17	1
Carbon tetrachloride	ND		0.50		ug/L			02/02/17 19:17	1
Chlorobenzene	ND		0.50		ug/L			02/02/17 19:17	1
Chloroethane	ND		1.0		ug/L			02/02/17 19:17	1
Chloroform	ND		1.0		ug/L			02/02/17 19:17	1
Chloromethane	ND		1.0		ug/L			02/02/17 19:17	1
2-Chlorotoluene	ND		0.50		ug/L			02/02/17 19:17	1
4-Chlorotoluene	ND		0.50		ug/L			02/02/17 19:17	1
Chlorodibromomethane	ND		0.50		ug/L			02/02/17 19:17	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/02/17 19:17	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/02/17 19:17	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/02/17 19:17	1
1,3-Dichloropropane	ND		1.0		ug/L			02/02/17 19:17	1
1,1-Dichloropropene	ND		0.50		ug/L			02/02/17 19:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/02/17 19:17	1
Ethylene Dibromide	ND		0.50		ug/L			02/02/17 19:17	1
Dibromomethane	ND		0.50		ug/L			02/02/17 19:17	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/02/17 19:17	1
1,1-Dichloroethane	ND		0.50		ug/L			02/02/17 19:17	1
1,2-Dichloroethane	ND		0.50		ug/L			02/02/17 19:17	1
1,1-Dichloroethene	ND		0.50		ug/L			02/02/17 19:17	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/02/17 19:17	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/02/17 19:17	1
1,2-Dichloropropane	ND		0.50		ug/L			02/02/17 19:17	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/02/17 19:17	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/02/17 19:17	1
Ethylbenzene	ND		0.50		ug/L			02/02/17 19:17	1
Hexachlorobutadiene	ND		1.0		ug/L			02/02/17 19:17	1
2-Hexanone	ND		50		ug/L			02/02/17 19:17	1
Isopropylbenzene	ND		0.50		ug/L			02/02/17 19:17	1
4-Isopropyltoluene	ND		1.0		ug/L			02/02/17 19:17	1
Methylene Chloride	ND		5.0		ug/L			02/02/17 19:17	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/02/17 19:17	1
Naphthalene	ND		1.0		ug/L			02/02/17 19:17	1
N-Propylbenzene	ND		1.0		ug/L			02/02/17 19:17	1
Styrene	ND		0.50		ug/L			02/02/17 19:17	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-217349/5
Matrix: Water
Analysis Batch: 217349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/02/17 19:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/02/17 19:17	1
Tetrachloroethene	ND		0.50		ug/L			02/02/17 19:17	1
Toluene	ND		0.50		ug/L			02/02/17 19:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/02/17 19:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/02/17 19:17	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/02/17 19:17	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/02/17 19:17	1
Trichloroethene	ND		0.50		ug/L			02/02/17 19:17	1
Trichlorofluoromethane	ND		1.0		ug/L			02/02/17 19:17	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/02/17 19:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/02/17 19:17	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/02/17 19:17	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/02/17 19:17	1
Vinyl acetate	ND		10		ug/L			02/02/17 19:17	1
Vinyl chloride	ND		0.50		ug/L			02/02/17 19:17	1
Xylenes, Total	ND		1.0		ug/L			02/02/17 19:17	1
2,2-Dichloropropane	ND		0.50		ug/L			02/02/17 19:17	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/02/17 19:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		67 - 130		02/02/17 19:17	1
1,2-Dichloroethane-d4 (Surr)	106		72 - 130		02/02/17 19:17	1
Toluene-d8 (Surr)	95		70 - 130		02/02/17 19:17	1

Lab Sample ID: LCS 720-217349/6
Matrix: Water
Analysis Batch: 217349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.6		ug/L		98	62 - 130
Acetone	125	124		ug/L		99	26 - 180
Benzene	25.0	25.1		ug/L		100	79 - 130
Dichlorobromomethane	25.0	26.1		ug/L		105	70 - 130
Bromobenzene	25.0	23.9		ug/L		95	70 - 130
Chlorobromomethane	25.0	23.1		ug/L		92	70 - 130
Bromoform	25.0	23.5		ug/L		94	68 - 136
Bromomethane	25.0	21.0		ug/L		84	43 - 151
2-Butanone (MEK)	125	124		ug/L		99	54 - 153
n-Butylbenzene	25.0	26.3		ug/L		105	70 - 142
sec-Butylbenzene	25.0	25.8		ug/L		103	70 - 134
tert-Butylbenzene	25.0	24.8		ug/L		99	70 - 135
Carbon disulfide	25.0	24.5		ug/L		98	68 - 146
Carbon tetrachloride	25.0	24.9		ug/L		100	70 - 146
Chlorobenzene	25.0	25.0		ug/L		100	70 - 130
Chloroethane	25.0	23.7		ug/L		95	62 - 138
Chloroform	25.0	25.0		ug/L		100	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-217349/6

Matrix: Water

Analysis Batch: 217349

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	26.7		ug/L		107	52 - 175
2-Chlorotoluene	25.0	24.9		ug/L		100	70 - 130
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130
Chlorodibromomethane	25.0	25.8		ug/L		103	70 - 145
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130
1,3-Dichlorobenzene	25.0	24.4		ug/L		98	70 - 130
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,3-Dichloropropane	25.0	26.1		ug/L		104	70 - 130
1,1-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.7		ug/L		91	70 - 136
Ethylene Dibromide	25.0	24.3		ug/L		97	70 - 130
Dibromomethane	25.0	25.3		ug/L		101	70 - 130
Dichlorodifluoromethane	25.0	25.4		ug/L		102	32 - 158
1,1-Dichloroethane	25.0	25.2		ug/L		101	70 - 130
1,2-Dichloroethane	25.0	25.8		ug/L		103	61 - 132
1,1-Dichloroethene	25.0	22.2		ug/L		89	64 - 128
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	22.6		ug/L		90	68 - 130
1,2-Dichloropropane	25.0	25.7		ug/L		103	70 - 130
cis-1,3-Dichloropropene	25.0	26.8		ug/L		107	70 - 130
trans-1,3-Dichloropropene	25.0	27.7		ug/L		111	70 - 140
Ethylbenzene	25.0	25.7		ug/L		103	80 - 120
Hexachlorobutadiene	25.0	23.4		ug/L		94	70 - 130
2-Hexanone	125	141		ug/L		113	60 - 164
Isopropylbenzene	25.0	25.7		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	25.3		ug/L		101	70 - 130
Methylene Chloride	25.0	22.1		ug/L		88	70 - 147
4-Methyl-2-pentanone (MIBK)	125	141		ug/L		113	50 - 155
Naphthalene	25.0	24.0		ug/L		96	50 - 130
N-Propylbenzene	25.0	25.8		ug/L		103	70 - 130
Styrene	25.0	25.4		ug/L		102	70 - 130
1,1,1,2-Tetrachloroethane	25.0	24.7		ug/L		99	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	24.6		ug/L		98	70 - 130
Tetrachloroethene	25.0	23.2		ug/L		93	70 - 130
Toluene	25.0	24.8		ug/L		99	78 - 120
1,2,3-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,1,1-Trichloroethane	25.0	24.9		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	70 - 130
Trichloroethene	25.0	23.7		ug/L		95	70 - 130
Trichlorofluoromethane	25.0	23.8		ug/L		95	66 - 132
1,2,3-Trichloropropane	25.0	23.2		ug/L		93	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.0		ug/L		88	42 - 162
1,2,4-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 132
1,3,5-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 130
Vinyl acetate	25.0	28.2		ug/L		113	43 - 163
Vinyl chloride	25.0	26.2		ug/L		105	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-217349/6
Matrix: Water
Analysis Batch: 217349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	25.7		ug/L		103	70 - 142
o-Xylene	25.0	25.9		ug/L		104	70 - 130
2,2-Dichloropropane	25.0	26.3		ug/L		105	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	98		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCS 720-217349/8
Matrix: Water
Analysis Batch: 217349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	527		ug/L		105	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	102		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 720-217349/10
Matrix: Water
Analysis Batch: 217349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	519		ug/L		104	71 - 125	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	108		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 720-217349/7
Matrix: Water
Analysis Batch: 217349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	24.8		ug/L		99	62 - 130	1	20
Acetone	125	120		ug/L		96	26 - 180	3	30
Benzene	25.0	25.3		ug/L		101	79 - 130	1	20
Dichlorobromomethane	25.0	26.5		ug/L		106	70 - 130	1	20
Bromobenzene	25.0	24.8		ug/L		99	70 - 130	4	20
Chlorobromomethane	25.0	23.7		ug/L		95	70 - 130	3	20
Bromoform	25.0	24.4		ug/L		98	68 - 136	4	20
Bromomethane	25.0	21.8		ug/L		87	43 - 151	4	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-217349/7

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 217349

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	125	127		ug/L		102	54 - 153	3	20
n-Butylbenzene	25.0	26.4		ug/L		106	70 - 142	0	20
sec-Butylbenzene	25.0	25.8		ug/L		103	70 - 134	0	20
tert-Butylbenzene	25.0	25.3		ug/L		101	70 - 135	2	20
Carbon disulfide	25.0	24.6		ug/L		98	68 - 146	0	20
Carbon tetrachloride	25.0	25.1		ug/L		100	70 - 146	1	20
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130	1	20
Chloroethane	25.0	23.8		ug/L		95	62 - 138	1	20
Chloroform	25.0	25.1		ug/L		100	70 - 130	0	20
Chloromethane	25.0	27.0		ug/L		108	52 - 175	1	20
2-Chlorotoluene	25.0	25.5		ug/L		102	70 - 130	2	20
4-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130	2	20
Chlorodibromomethane	25.0	26.1		ug/L		105	70 - 145	1	20
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	2	20
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130	2	20
1,4-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130	1	20
1,3-Dichloropropane	25.0	25.7		ug/L		103	70 - 130	1	20
1,1-Dichloropropane	25.0	25.2		ug/L		101	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	23.5		ug/L		94	70 - 136	3	20
Ethylene Dibromide	25.0	24.6		ug/L		99	70 - 130	1	20
Dibromomethane	25.0	25.5		ug/L		102	70 - 130	1	20
Dichlorodifluoromethane	25.0	25.6		ug/L		102	32 - 158	1	20
1,1-Dichloroethane	25.0	25.1		ug/L		100	70 - 130	0	20
1,2-Dichloroethane	25.0	25.7		ug/L		103	61 - 132	0	20
1,1-Dichloroethene	25.0	22.6		ug/L		90	64 - 128	2	20
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	68 - 130	3	20
1,2-Dichloropropane	25.0	26.2		ug/L		105	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 130	0	20
trans-1,3-Dichloropropene	25.0	27.6		ug/L		110	70 - 140	0	20
Ethylbenzene	25.0	25.6		ug/L		102	80 - 120	0	20
Hexachlorobutadiene	25.0	24.4		ug/L		97	70 - 130	4	20
2-Hexanone	125	139		ug/L		111	60 - 164	1	20
Isopropylbenzene	25.0	25.5		ug/L		102	70 - 130	1	20
4-Isopropyltoluene	25.0	25.5		ug/L		102	70 - 130	1	20
Methylene Chloride	25.0	22.5		ug/L		90	70 - 147	2	20
4-Methyl-2-pentanone (MIBK)	125	141		ug/L		113	50 - 155	0	20
Naphthalene	25.0	25.5		ug/L		102	50 - 130	6	20
N-Propylbenzene	25.0	26.2		ug/L		105	70 - 130	2	20
Styrene	25.0	25.5		ug/L		102	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130	2	20
Tetrachloroethene	25.0	23.8		ug/L		95	70 - 130	2	20
Toluene	25.0	25.1		ug/L		101	78 - 120	2	20
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		101	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	25.9		ug/L		104	70 - 130	4	20
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130	1	20
1,1,2-Trichloroethane	25.0	25.3		ug/L		101	70 - 130	0	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-217349/7

Matrix: Water

Analysis Batch: 217349

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene	25.0	23.7		ug/L		95	70 - 130	0	20
Trichlorofluoromethane	25.0	24.3		ug/L		97	66 - 132	2	20
1,2,3-Trichloropropane	25.0	24.4		ug/L		98	70 - 130	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.7		ug/L		91	42 - 162	3	20
1,2,4-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130	2	20
Vinyl acetate	25.0	28.9		ug/L		116	43 - 163	2	20
Vinyl chloride	25.0	25.9		ug/L		104	54 - 135	1	20
m-Xylene & p-Xylene	25.0	25.3		ug/L		101	70 - 142	1	20
o-Xylene	25.0	25.5		ug/L		102	70 - 130	2	20
2,2-Dichloropropane	25.0	26.8		ug/L		107	70 - 140	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		72 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: MB 720-217514/4

Matrix: Water

Analysis Batch: 217514

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/07/17 08:37	1
Acetone	ND		50		ug/L			02/07/17 08:37	1
Benzene	ND		0.50		ug/L			02/07/17 08:37	1
Dichlorobromomethane	ND		0.50		ug/L			02/07/17 08:37	1
Bromobenzene	ND		1.0		ug/L			02/07/17 08:37	1
Chlorobromomethane	ND		1.0		ug/L			02/07/17 08:37	1
Bromoform	ND		1.0		ug/L			02/07/17 08:37	1
Bromomethane	ND		1.0		ug/L			02/07/17 08:37	1
2-Butanone (MEK)	ND		50		ug/L			02/07/17 08:37	1
n-Butylbenzene	ND		1.0		ug/L			02/07/17 08:37	1
sec-Butylbenzene	ND		1.0		ug/L			02/07/17 08:37	1
tert-Butylbenzene	ND		1.0		ug/L			02/07/17 08:37	1
Carbon disulfide	ND		5.0		ug/L			02/07/17 08:37	1
Carbon tetrachloride	ND		0.50		ug/L			02/07/17 08:37	1
Chlorobenzene	ND		0.50		ug/L			02/07/17 08:37	1
Chloroethane	ND		1.0		ug/L			02/07/17 08:37	1
Chloroform	ND		1.0		ug/L			02/07/17 08:37	1
Chloromethane	ND		1.0		ug/L			02/07/17 08:37	1
2-Chlorotoluene	ND		0.50		ug/L			02/07/17 08:37	1
4-Chlorotoluene	ND		0.50		ug/L			02/07/17 08:37	1
Chlorodibromomethane	ND		0.50		ug/L			02/07/17 08:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/07/17 08:37	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/07/17 08:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/07/17 08:37	1
1,3-Dichloropropane	ND		1.0		ug/L			02/07/17 08:37	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-217514/4
Matrix: Water
Analysis Batch: 217514

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		0.50		ug/L			02/07/17 08:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/07/17 08:37	1
Ethylene Dibromide	ND		0.50		ug/L			02/07/17 08:37	1
Dibromomethane	ND		0.50		ug/L			02/07/17 08:37	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/07/17 08:37	1
1,1-Dichloroethane	ND		0.50		ug/L			02/07/17 08:37	1
1,2-Dichloroethane	ND		0.50		ug/L			02/07/17 08:37	1
1,1-Dichloroethene	ND		0.50		ug/L			02/07/17 08:37	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/07/17 08:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/07/17 08:37	1
1,2-Dichloropropane	ND		0.50		ug/L			02/07/17 08:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/07/17 08:37	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/07/17 08:37	1
Ethylbenzene	ND		0.50		ug/L			02/07/17 08:37	1
Hexachlorobutadiene	ND		1.0		ug/L			02/07/17 08:37	1
2-Hexanone	ND		50		ug/L			02/07/17 08:37	1
Isopropylbenzene	ND		0.50		ug/L			02/07/17 08:37	1
4-Isopropyltoluene	ND		1.0		ug/L			02/07/17 08:37	1
Methylene Chloride	ND		5.0		ug/L			02/07/17 08:37	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/07/17 08:37	1
Naphthalene	ND		1.0		ug/L			02/07/17 08:37	1
N-Propylbenzene	ND		1.0		ug/L			02/07/17 08:37	1
Styrene	ND		0.50		ug/L			02/07/17 08:37	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/07/17 08:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/07/17 08:37	1
Tetrachloroethene	ND		0.50		ug/L			02/07/17 08:37	1
Toluene	ND		0.50		ug/L			02/07/17 08:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/07/17 08:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/07/17 08:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/07/17 08:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/07/17 08:37	1
Trichloroethene	ND		0.50		ug/L			02/07/17 08:37	1
Trichlorofluoromethane	ND		1.0		ug/L			02/07/17 08:37	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/07/17 08:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/07/17 08:37	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/07/17 08:37	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/07/17 08:37	1
Vinyl acetate	ND		10		ug/L			02/07/17 08:37	1
Vinyl chloride	ND		0.50		ug/L			02/07/17 08:37	1
Xylenes, Total	ND		1.0		ug/L			02/07/17 08:37	1
2,2-Dichloropropane	ND		0.50		ug/L			02/07/17 08:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/07/17 08:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		67 - 130		02/07/17 08:37	1
1,2-Dichloroethane-d4 (Surr)	74		72 - 130		02/07/17 08:37	1
Toluene-d8 (Surr)	93		70 - 130		02/07/17 08:37	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Lab Sample ID: LCS 720-217514/5
Matrix: Water
Analysis Batch: 217514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	21.2		ug/L		85	62 - 130
Acetone	125	166		ug/L		133	26 - 180
Benzene	25.0	24.9		ug/L		100	79 - 130
Dichlorobromomethane	25.0	20.7		ug/L		83	70 - 130
Bromobenzene	25.0	23.5		ug/L		94	70 - 130
Chlorobromomethane	25.0	22.5		ug/L		90	70 - 130
Bromoform	25.0	20.7		ug/L		83	68 - 136
Bromomethane	25.0	21.4		ug/L		86	43 - 151
2-Butanone (MEK)	125	132		ug/L		106	54 - 153
n-Butylbenzene	25.0	24.9		ug/L		100	70 - 142
sec-Butylbenzene	25.0	23.8		ug/L		95	70 - 134
tert-Butylbenzene	25.0	23.0		ug/L		92	70 - 135
Carbon disulfide	25.0	24.3		ug/L		97	68 - 146
Carbon tetrachloride	25.0	18.9		ug/L		75	70 - 146
Chlorobenzene	25.0	24.3		ug/L		97	70 - 130
Chloroethane	25.0	25.1		ug/L		100	62 - 138
Chloroform	25.0	20.1		ug/L		81	70 - 130
Chloromethane	25.0	27.2		ug/L		109	52 - 175
2-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130
4-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130
Chlorodibromomethane	25.0	20.2		ug/L		81	70 - 145
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	23.5		ug/L		94	70 - 130
1,1-Dichloropropane	25.0	22.2		ug/L		89	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.8		ug/L		95	70 - 136
Ethylene Dibromide	25.0	22.9		ug/L		91	70 - 130
Dibromomethane	25.0	21.5		ug/L		86	70 - 130
Dichlorodifluoromethane	25.0	15.0		ug/L		60	32 - 158
1,1-Dichloroethane	25.0	23.2		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	18.5		ug/L		74	61 - 132
1,1-Dichloroethene	25.0	21.6		ug/L		86	64 - 128
cis-1,2-Dichloroethene	25.0	23.0		ug/L		92	70 - 130
trans-1,2-Dichloroethene	25.0	23.0		ug/L		92	68 - 130
1,2-Dichloropropane	25.0	27.2		ug/L		109	70 - 130
cis-1,3-Dichloropropene	25.0	23.3		ug/L		93	70 - 130
trans-1,3-Dichloropropene	25.0	21.4		ug/L		86	70 - 140
Ethylbenzene	25.0	23.6		ug/L		94	80 - 120
Hexachlorobutadiene	25.0	19.8		ug/L		79	70 - 130
2-Hexanone	125	145		ug/L		116	60 - 164
Isopropylbenzene	25.0	23.3		ug/L		93	70 - 130
4-Isopropyltoluene	25.0	22.0		ug/L		88	70 - 130
Methylene Chloride	25.0	23.0		ug/L		92	70 - 147
4-Methyl-2-pentanone (MIBK)	125	149		ug/L		119	50 - 155
Naphthalene	25.0	25.8		ug/L		103	50 - 130
N-Propylbenzene	25.0	24.2		ug/L		97	70 - 130
Styrene	25.0	26.0		ug/L		104	70 - 130
1,1,1,2-Tetrachloroethane	25.0	21.3		ug/L		85	70 - 130
1,1,2,2-Tetrachloroethane	25.0	27.0		ug/L		108	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-217514/5
Matrix: Water
Analysis Batch: 217514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	21.6		ug/L		86	70 - 130
Toluene	25.0	24.6		ug/L		98	78 - 120
1,2,3-Trichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	25.0	24.4		ug/L		98	70 - 130
1,1,1-Trichloroethane	25.0	19.2		ug/L		77	70 - 130
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	70 - 130
Trichloroethene	25.0	22.2		ug/L		89	70 - 130
Trichlorofluoromethane	25.0	17.5		ug/L		70	66 - 132
1,2,3-Trichloropropane	25.0	21.8		ug/L		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	19.9		ug/L		80	42 - 162
1,2,4-Trimethylbenzene	25.0	23.9		ug/L		95	70 - 132
1,3,5-Trimethylbenzene	25.0	23.5		ug/L		94	70 - 130
Vinyl acetate	25.0	27.7		ug/L		111	43 - 163
Vinyl chloride	25.0	20.3		ug/L		81	54 - 135
m-Xylene & p-Xylene	25.0	23.5		ug/L		94	70 - 142
o-Xylene	25.0	23.5		ug/L		94	70 - 130
2,2-Dichloropropane	25.0	19.5		ug/L		78	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	73		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCS 720-217514/7
Matrix: Water
Analysis Batch: 217514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	446		ug/L		89	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	73		72 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: LCSD 720-217514/6
Matrix: Water
Analysis Batch: 217514

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	20.1		ug/L		80	62 - 130	6	20
Acetone	125	140		ug/L		112	26 - 180	17	30
Benzene	25.0	25.5		ug/L		102	79 - 130	3	20
Dichlorobromomethane	25.0	20.4		ug/L		82	70 - 130	1	20
Bromobenzene	25.0	24.1		ug/L		97	70 - 130	3	20
Chlorobromomethane	25.0	22.3		ug/L		89	70 - 130	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-217514/6

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 217514

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	25.0	19.6		ug/L		79	68 - 136	5	20
Bromomethane	25.0	21.8		ug/L		87	43 - 151	2	20
2-Butanone (MEK)	125	116		ug/L		93	54 - 153	13	20
n-Butylbenzene	25.0	25.6		ug/L		102	70 - 142	3	20
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 134	4	20
tert-Butylbenzene	25.0	23.8		ug/L		95	70 - 135	3	20
Carbon disulfide	25.0	25.5		ug/L		102	68 - 146	5	20
Carbon tetrachloride	25.0	19.5		ug/L		78	70 - 146	3	20
Chlorobenzene	25.0	24.9		ug/L		100	70 - 130	3	20
Chloroethane	25.0	25.9		ug/L		103	62 - 138	3	20
Chloroform	25.0	20.5		ug/L		82	70 - 130	2	20
Chloromethane	25.0	27.5		ug/L		110	52 - 175	1	20
2-Chlorotoluene	25.0	24.1		ug/L		97	70 - 130	2	20
4-Chlorotoluene	25.0	24.1		ug/L		96	70 - 130	2	20
Chlorodibromomethane	25.0	19.6		ug/L		78	70 - 145	3	20
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	0	20
1,3-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130	1	20
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130	2	20
1,3-Dichloropropane	25.0	22.7		ug/L		91	70 - 130	3	20
1,1-Dichloropropane	25.0	22.8		ug/L		91	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	20.6		ug/L		83	70 - 136	14	20
Ethylene Dibromide	25.0	21.5		ug/L		86	70 - 130	6	20
Dibromomethane	25.0	20.9		ug/L		83	70 - 130	3	20
Dichlorodifluoromethane	25.0	15.1		ug/L		60	32 - 158	1	20
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130	2	20
1,2-Dichloroethane	25.0	17.9		ug/L		72	61 - 132	3	20
1,1-Dichloroethene	25.0	22.6		ug/L		90	64 - 128	5	20
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	68 - 130	4	20
1,2-Dichloropropane	25.0	27.5		ug/L		110	70 - 130	1	20
cis-1,3-Dichloropropane	25.0	23.1		ug/L		92	70 - 130	1	20
trans-1,3-Dichloropropane	25.0	20.9		ug/L		84	70 - 140	2	20
Ethylbenzene	25.0	24.4		ug/L		98	80 - 120	3	20
Hexachlorobutadiene	25.0	20.5		ug/L		82	70 - 130	3	20
2-Hexanone	125	125		ug/L		100	60 - 164	15	20
Isopropylbenzene	25.0	23.9		ug/L		95	70 - 130	3	20
4-Isopropyltoluene	25.0	22.8		ug/L		91	70 - 130	3	20
Methylene Chloride	25.0	23.4		ug/L		94	70 - 147	2	20
4-Methyl-2-pentanone (MIBK)	125	131		ug/L		105	50 - 155	13	20
Naphthalene	25.0	24.0		ug/L		96	50 - 130	7	20
N-Propylbenzene	25.0	25.0		ug/L		100	70 - 130	3	20
Styrene	25.0	26.3		ug/L		105	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	21.4		ug/L		86	70 - 130	0	20
1,1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		101	70 - 130	7	20
Tetrachloroethene	25.0	22.3		ug/L		89	70 - 130	3	20
Toluene	25.0	25.3		ug/L		101	78 - 120	3	20
1,2,3-Trichlorobenzene	25.0	23.8		ug/L		95	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	23.8		ug/L		95	70 - 130	3	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-217514/6

Matrix: Water

Analysis Batch: 217514

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	25.0	19.9		ug/L		79	70 - 130	3	20
1,1,2-Trichloroethane	25.0	23.9		ug/L		96	70 - 130	2	20
Trichloroethene	25.0	22.7		ug/L		91	70 - 130	2	20
Trichlorofluoromethane	25.0	18.2		ug/L		73	66 - 132	4	20
1,2,3-Trichloropropane	25.0	20.3		ug/L		81	70 - 130	7	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.0		ug/L		84	42 - 162	5	20
1,2,4-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 132	2	20
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130	3	20
Vinyl acetate	25.0	26.0		ug/L		104	43 - 163	6	20
Vinyl chloride	25.0	21.3		ug/L		85	54 - 135	5	20
m-Xylene & p-Xylene	25.0	24.2		ug/L		97	70 - 142	3	20
o-Xylene	25.0	24.1		ug/L		96	70 - 130	2	20
2,2-Dichloropropane	25.0	21.2		ug/L		85	70 - 140	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	70	X	72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 720-217514/8

Matrix: Water

Analysis Batch: 217514

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	451		ug/L		90	71 - 125	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	74		72 - 130
Toluene-d8 (Surr)	96		70 - 130

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

GC/MS VOA

Analysis Batch: 217349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-77439-1	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-77439-2	GAC	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-217349/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-217349/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-217349/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-217349/10	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-217349/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 217514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-77439-3	INF	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-217514/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-217514/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-217514/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-217514/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-217514/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Client Sample ID: EFF
Date Collected: 02/01/17 13:35
Date Received: 02/01/17 16:40

Lab Sample ID: 720-77439-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	217349	02/02/17 22:08	JRM	TAL PLS

Client Sample ID: GAC
Date Collected: 02/01/17 13:37
Date Received: 02/01/17 16:40

Lab Sample ID: 720-77439-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	217349	02/03/17 04:19	JRM	TAL PLS

Client Sample ID: INF
Date Collected: 02/01/17 13:39
Date Received: 02/01/17 16:40

Lab Sample ID: 720-77439-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	217514	02/07/17 18:08	JRM	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-18

Analysis Method	Prep Method	Matrix	Analyte
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- 2
- 3
- 4
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- 12
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- 14

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 12
- 13
- 14

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-77439-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-77439-1	EFF	Water	02/01/17 13:35	02/01/17 16:40
720-77439-2	GAC	Water	02/01/17 13:37	02/01/17 16:40
720-77439-3	INF	Water	02/01/17 13:39	02/01/17 16:40

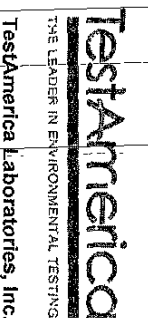
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- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica Pleasanton
1220 Quarry Lane

Chain of Custody Record

720-77439

1738880



TestAmerica Laboratories, Inc.

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Regulatory Program: DW NPDES RCRA Other

Client Contact

Project Manager: Peter Sims
Tel/fax: 510.343.3000

Site Contact: Asha Turman
Lab Contact: Paloma Duong

Date: 2.1.17

COC No: 1 of 1 COCs

1956 Webster Street, #400
Oakland/CA/94612

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below

Carrier:

Sampler: ALT
For Lab Use Only:
Walk-in Client
Lab Sampling:

510-343-3000 Phone
FAX

2 weeks
 1 week
 2 days
 1 day

Job / SDG No.:

Project Name: Chun
Site: 401896004

Perform MS / MSD (Y / N)
TPHg + VOCs; B260B

Sample Specific Notes:

P O #

Sample Identification

Sample Date	Sample Time	Sample Type (C-Comp, G-Samp)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)
2.1.17	1335	G	GW	1	N	W X
2.1.17	1337	G	GW	1	N	N X
2.1.17	1339	G	GW	1	N	N X



720-77439 Chain of Custody

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:

2.3 °C

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temp. (°C): Obs'd:

Coor'd:

Therm ID No.:

Relinquished by:

Company:

Date/Time:

Received by:

Company:

Date/Time:

Relinquished by:

Company:

Date/Time:

Received in Laboratory by:

Company:

Date/Time:

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-77439-1

Login Number: 77439
List Number: 1
Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-78006-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
3/14/2017 3:24:50 PM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

LINKS

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results through
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Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	7
QC Sample Results	19
QC Association Summary	40
Lab Chronicle	44
Certification Summary	47
Method Summary	49
Sample Summary	50
Chain of Custody	51
Receipt Checklists	57

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Job ID: 720-78006-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-78006-1

Comments

No additional comments.

Receipt

The samples were received on 3/2/2017 5:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Far right analyses column lists 300 0 OFMS; MOD, but no analyte was listed. Based on previous jobs, this was logged in for Sulfate by method 300. The Orthophosphate samples were not field filtered.

GC/MS VOA

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-413303.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-15

Lab Sample ID: 720-78006-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	94		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	3.9		1.0		mg/L	1		300.0	Total/NA
Iron	160		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferrous Iron	0.40	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Orthophosphate as P	0.030		0.020		mg/L	1		SM 4500 P E	Dissolved

Client Sample ID: MW-16

Lab Sample ID: 720-78006-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.75		0.50		ug/L	1		8260B	Total/NA
Sulfate	9.5		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	80		10		mg/L	10		300.0	Total/NA
Orthophosphate as P	0.023		0.020		mg/L	1		SM 4500 P E	Dissolved

Client Sample ID: MW-10

Lab Sample ID: 720-78006-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	13		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	9.2		1.0		mg/L	1		300.0	Total/NA
Iron	6.9		1.0		mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 720-78006-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.1		0.50		ug/L	1		8260B	Total/NA
Sulfate	21		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	200		10		mg/L	10		300.0	Total/NA
Iron	11		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Orthophosphate as P	0.037		0.020		mg/L	1		SM 4500 P E	Dissolved

Client Sample ID: MW-14

Lab Sample ID: 720-78006-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	6700		500		ug/L	10		8260B	Total/NA
1,2,4-Trimethylbenzene	300		0.50		ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	78		0.50		ug/L	1		8260B	Total/NA
2-Hexanone	6.4		5.0		ug/L	1		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	11		5.0		ug/L	1		8260B	Total/NA
Acetone	15		5.0		ug/L	1		8260B	Total/NA
Benzene	340		0.50		ug/L	1		8260B	Total/NA
Ethylbenzene	240		0.50		ug/L	1		8260B	Total/NA
Isopropylbenzene	19		1.0		ug/L	1		8260B	Total/NA
Naphthalene	110		5.0		ug/L	1		8260B	Total/NA
n-Butylbenzene	7.9		0.50		ug/L	1		8260B	Total/NA
N-Propylbenzene	43		0.50		ug/L	1		8260B	Total/NA
4-Isopropyltoluene	1.1		0.50		ug/L	1		8260B	Total/NA
Toluene	720		5.0		ug/L	10		8260B	Total/NA
Xylenes, Total	1600		10		ug/L	10		8260B	Total/NA
Sulfate	14		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	15		1.0		mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-14 (Continued)

Lab Sample ID: 720-78006-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	12		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferrous Iron	0.32	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-6R

Lab Sample ID: 720-78006-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	60		50		ug/L	1		8260B	Total/NA
Sulfate	23		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	120		10		mg/L	10		300.0	Total/NA
Ammonia	7.3		0.40		mg/L	2		SM 4500 NH3 G	Total/NA
Orthophosphate as P	5.1		0.20		mg/L	10		SM 4500 P E	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-15

Date Collected: 03/02/17 10:35

Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 15:02	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/09/17 15:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 15:02	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/09/17 15:02	1
1,1-Dichloroethane	ND		0.50		ug/L			03/09/17 15:02	1
GRO (C4-C12)	ND		50		ug/L			03/09/17 15:02	1
1,1-Dichloroethene	ND		0.50		ug/L			03/09/17 15:02	1
1,1-Dichloropropene	ND		0.50		ug/L			03/09/17 15:02	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/09/17 15:02	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/09/17 15:02	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/09/17 15:02	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/09/17 15:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/09/17 15:02	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/09/17 15:02	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/09/17 15:02	1
1,2-Dichloroethane	ND		0.50		ug/L			03/09/17 15:02	1
1,2-Dichloropropane	ND		0.50		ug/L			03/09/17 15:02	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/09/17 15:02	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/09/17 15:02	1
1,3-Dichloropropane	ND		0.50		ug/L			03/09/17 15:02	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/09/17 15:02	1
2,2-Dichloropropane	ND		0.50		ug/L			03/09/17 15:02	1
2-Butanone (MEK)	ND		50		ug/L			03/09/17 15:02	1
2-Chlorotoluene	ND		0.50		ug/L			03/09/17 15:02	1
2-Hexanone	ND		5.0		ug/L			03/09/17 15:02	1
4-Chlorotoluene	ND		0.50		ug/L			03/09/17 15:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/09/17 15:02	1
Acetone	ND		5.0		ug/L			03/09/17 15:02	1
Benzene	ND		0.50		ug/L			03/09/17 15:02	1
Bromobenzene	ND		0.50		ug/L			03/09/17 15:02	1
Chlorobromomethane	ND		0.50		ug/L			03/09/17 15:02	1
Dichlorobromomethane	ND		0.50		ug/L			03/09/17 15:02	1
Bromoform	ND		0.50		ug/L			03/09/17 15:02	1
Bromomethane	ND		0.50		ug/L			03/09/17 15:02	1
Carbon disulfide	ND		0.50		ug/L			03/09/17 15:02	1
Carbon tetrachloride	ND		0.50		ug/L			03/09/17 15:02	1
Chlorobenzene	ND		0.50		ug/L			03/09/17 15:02	1
Chlorodibromomethane	ND		0.50		ug/L			03/09/17 15:02	1
Chloroethane	ND		0.50		ug/L			03/09/17 15:02	1
Chloroform	ND		0.50		ug/L			03/09/17 15:02	1
Chloromethane	ND		0.50		ug/L			03/09/17 15:02	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 15:02	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 15:02	1
Dibromomethane	ND		0.50		ug/L			03/09/17 15:02	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/09/17 15:02	1
Ethylbenzene	ND		0.50		ug/L			03/09/17 15:02	1
Hexachlorobutadiene	ND		1.0		ug/L			03/09/17 15:02	1
Isopropylbenzene	ND		1.0		ug/L			03/09/17 15:02	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/09/17 15:02	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-15

Date Collected: 03/02/17 10:35

Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			03/09/17 15:02	1
Naphthalene	ND		5.0		ug/L			03/09/17 15:02	1
n-Butylbenzene	ND		0.50		ug/L			03/09/17 15:02	1
N-Propylbenzene	ND		0.50		ug/L			03/09/17 15:02	1
4-Isopropyltoluene	ND		0.50		ug/L			03/09/17 15:02	1
sec-Butylbenzene	ND		0.50		ug/L			03/09/17 15:02	1
Styrene	ND		0.50		ug/L			03/09/17 15:02	1
tert-Butylbenzene	ND		0.50		ug/L			03/09/17 15:02	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 15:02	1
Toluene	ND		0.50		ug/L			03/09/17 15:02	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 15:02	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 15:02	1
Trichloroethene	ND		0.50		ug/L			03/09/17 15:02	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 15:02	1
Vinyl chloride	ND		0.50		ug/L			03/09/17 15:02	1
Xylenes, Total	ND		1.0		ug/L			03/09/17 15:02	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130					03/09/17 15:02	1
4-Bromofluorobenzene (Surr)	98		70 - 130					03/09/17 15:02	1
Dibromofluoromethane (Surr)	103		70 - 130					03/09/17 15:02	1
Toluene-d8 (Surr)	101		70 - 130					03/09/17 15:02	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130					03/09/17 15:02	1
4-Bromofluorobenzene (Surr)	98		70 - 130					03/09/17 15:02	1
Dibromofluoromethane (Surr)	103		70 - 130					03/09/17 15:02	1
Toluene-d8 (Surr)	101		70 - 130					03/09/17 15:02	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			03/03/17 01:44	1
Sulfate	94		10		mg/L			03/03/17 02:01	10
Nitrate as NO3	3.9		1.0		mg/L			03/03/17 01:44	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	160		1.0		mg/L		03/08/17 11:35	03/09/17 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.40	HF	0.10		mg/L			03/06/17 15:15	1
Ammonia	ND		0.20		mg/L		03/06/17 18:00	03/06/17 21:50	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	0.030		0.020		mg/L			03/03/17 12:03	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-16
Date Collected: 03/02/17 12:00
Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 15:31	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/09/17 15:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 15:31	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/09/17 15:31	1
1,1-Dichloroethane	ND		0.50		ug/L			03/09/17 15:31	1
GRO (C4-C12)	ND		50		ug/L			03/09/17 15:31	1
1,1-Dichloroethene	ND		0.50		ug/L			03/09/17 15:31	1
1,1-Dichloropropene	ND		0.50		ug/L			03/09/17 15:31	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/09/17 15:31	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/09/17 15:31	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/09/17 15:31	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/09/17 15:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/09/17 15:31	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/09/17 15:31	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/09/17 15:31	1
1,2-Dichloroethane	ND		0.50		ug/L			03/09/17 15:31	1
1,2-Dichloropropane	ND		0.50		ug/L			03/09/17 15:31	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/09/17 15:31	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/09/17 15:31	1
1,3-Dichloropropane	ND		0.50		ug/L			03/09/17 15:31	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/09/17 15:31	1
2,2-Dichloropropane	ND		0.50		ug/L			03/09/17 15:31	1
2-Butanone (MEK)	ND		50		ug/L			03/09/17 15:31	1
2-Chlorotoluene	ND		0.50		ug/L			03/09/17 15:31	1
2-Hexanone	ND		5.0		ug/L			03/09/17 15:31	1
4-Chlorotoluene	ND		0.50		ug/L			03/09/17 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/09/17 15:31	1
Acetone	ND		5.0		ug/L			03/09/17 15:31	1
Benzene	ND		0.50		ug/L			03/09/17 15:31	1
Bromobenzene	ND		0.50		ug/L			03/09/17 15:31	1
Chlorobromomethane	ND		0.50		ug/L			03/09/17 15:31	1
Dichlorobromomethane	ND		0.50		ug/L			03/09/17 15:31	1
Bromoform	ND		0.50		ug/L			03/09/17 15:31	1
Bromomethane	ND		0.50		ug/L			03/09/17 15:31	1
Carbon disulfide	ND		0.50		ug/L			03/09/17 15:31	1
Carbon tetrachloride	ND		0.50		ug/L			03/09/17 15:31	1
Chlorobenzene	ND		0.50		ug/L			03/09/17 15:31	1
Chlorodibromomethane	ND		0.50		ug/L			03/09/17 15:31	1
Chloroethane	ND		0.50		ug/L			03/09/17 15:31	1
Chloroform	ND		0.50		ug/L			03/09/17 15:31	1
Chloromethane	ND		0.50		ug/L			03/09/17 15:31	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 15:31	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 15:31	1
Dibromomethane	ND		0.50		ug/L			03/09/17 15:31	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/09/17 15:31	1
Ethylbenzene	ND		0.50		ug/L			03/09/17 15:31	1
Hexachlorobutadiene	ND		1.0		ug/L			03/09/17 15:31	1
Isopropylbenzene	ND		1.0		ug/L			03/09/17 15:31	1
Methyl tert-butyl ether	0.75		0.50		ug/L			03/09/17 15:31	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-16

Lab Sample ID: 720-78006-2

Date Collected: 03/02/17 12:00

Matrix: Water

Date Received: 03/02/17 17:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			03/09/17 15:31	1
Naphthalene	ND		5.0		ug/L			03/09/17 15:31	1
n-Butylbenzene	ND		0.50		ug/L			03/09/17 15:31	1
N-Propylbenzene	ND		0.50		ug/L			03/09/17 15:31	1
4-Isopropyltoluene	ND		0.50		ug/L			03/09/17 15:31	1
sec-Butylbenzene	ND		0.50		ug/L			03/09/17 15:31	1
Styrene	ND		0.50		ug/L			03/09/17 15:31	1
tert-Butylbenzene	ND		0.50		ug/L			03/09/17 15:31	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 15:31	1
Toluene	ND		0.50		ug/L			03/09/17 15:31	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 15:31	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 15:31	1
Trichloroethene	ND		0.50		ug/L			03/09/17 15:31	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 15:31	1
Vinyl chloride	ND		0.50		ug/L			03/09/17 15:31	1
Xylenes, Total	ND		1.0		ug/L			03/09/17 15:31	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130				03/09/17 15:31	1
4-Bromofluorobenzene (Surr)	97		70 - 130				03/09/17 15:31	1
Dibromofluoromethane (Surr)	102		70 - 130				03/09/17 15:31	1
Toluene-d8 (Surr)	101		70 - 130				03/09/17 15:31	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130				03/09/17 15:31	1
4-Bromofluorobenzene (Surr)	97		70 - 130				03/09/17 15:31	1
Dibromofluoromethane (Surr)	102		70 - 130				03/09/17 15:31	1
Toluene-d8 (Surr)	101		70 - 130				03/09/17 15:31	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		10		mg/L			03/03/17 03:10	10
Sulfate	9.5		1.0		mg/L			03/03/17 02:18	1
Nitrate as NO3	80		10		mg/L			03/03/17 03:10	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		03/08/17 11:35	03/09/17 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND	HF	0.10		mg/L			03/06/17 15:15	1
Ammonia	ND		0.20		mg/L		03/06/17 18:00	03/06/17 21:53	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	0.023		0.020		mg/L			03/03/17 12:03	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-10

Date Collected: 03/02/17 13:10

Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 14:34	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/09/17 14:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 14:34	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/09/17 14:34	1
1,1-Dichloroethane	ND		0.50		ug/L			03/09/17 14:34	1
GRO (C4-C12)	ND		50		ug/L			03/09/17 14:34	1
1,1-Dichloroethene	ND		0.50		ug/L			03/09/17 14:34	1
1,1-Dichloropropene	ND		0.50		ug/L			03/09/17 14:34	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/09/17 14:34	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/09/17 14:34	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/09/17 14:34	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/09/17 14:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/09/17 14:34	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/09/17 14:34	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/09/17 14:34	1
1,2-Dichloroethane	ND		0.50		ug/L			03/09/17 14:34	1
1,2-Dichloropropane	ND		0.50		ug/L			03/09/17 14:34	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/09/17 14:34	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/09/17 14:34	1
1,3-Dichloropropane	ND		0.50		ug/L			03/09/17 14:34	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/09/17 14:34	1
2,2-Dichloropropane	ND		0.50		ug/L			03/09/17 14:34	1
2-Butanone (MEK)	ND		50		ug/L			03/09/17 14:34	1
2-Chlorotoluene	ND		0.50		ug/L			03/09/17 14:34	1
2-Hexanone	ND		5.0		ug/L			03/09/17 14:34	1
4-Chlorotoluene	ND		0.50		ug/L			03/09/17 14:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/09/17 14:34	1
Acetone	ND		5.0		ug/L			03/09/17 14:34	1
Benzene	ND		0.50		ug/L			03/09/17 14:34	1
Bromobenzene	ND		0.50		ug/L			03/09/17 14:34	1
Chlorobromomethane	ND		0.50		ug/L			03/09/17 14:34	1
Dichlorobromomethane	ND		0.50		ug/L			03/09/17 14:34	1
Bromoform	ND		0.50		ug/L			03/09/17 14:34	1
Bromomethane	ND		0.50		ug/L			03/09/17 14:34	1
Carbon disulfide	ND		0.50		ug/L			03/09/17 14:34	1
Carbon tetrachloride	ND		0.50		ug/L			03/09/17 14:34	1
Chlorobenzene	ND		0.50		ug/L			03/09/17 14:34	1
Chlorodibromomethane	ND		0.50		ug/L			03/09/17 14:34	1
Chloroethane	ND		0.50		ug/L			03/09/17 14:34	1
Chloroform	ND		0.50		ug/L			03/09/17 14:34	1
Chloromethane	ND		0.50		ug/L			03/09/17 14:34	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 14:34	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 14:34	1
Dibromomethane	ND		0.50		ug/L			03/09/17 14:34	1
Dichlorodifluoromethane	ND	F1	0.50		ug/L			03/09/17 14:34	1
Ethylbenzene	ND		0.50		ug/L			03/09/17 14:34	1
Hexachlorobutadiene	ND		1.0		ug/L			03/09/17 14:34	1
Isopropylbenzene	ND		1.0		ug/L			03/09/17 14:34	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/09/17 14:34	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-10
Date Collected: 03/02/17 13:10
Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			03/09/17 14:34	1
Naphthalene	ND		5.0		ug/L			03/09/17 14:34	1
n-Butylbenzene	ND		0.50		ug/L			03/09/17 14:34	1
N-Propylbenzene	ND		0.50		ug/L			03/09/17 14:34	1
4-Isopropyltoluene	ND		0.50		ug/L			03/09/17 14:34	1
sec-Butylbenzene	ND		0.50		ug/L			03/09/17 14:34	1
Styrene	ND		0.50		ug/L			03/09/17 14:34	1
tert-Butylbenzene	ND		0.50		ug/L			03/09/17 14:34	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 14:34	1
Toluene	ND		0.50		ug/L			03/09/17 14:34	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 14:34	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 14:34	1
Trichloroethene	ND		0.50		ug/L			03/09/17 14:34	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 14:34	1
Vinyl chloride	ND		0.50		ug/L			03/09/17 14:34	1
Xylenes, Total	ND		1.0		ug/L			03/09/17 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		03/09/17 14:34	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/09/17 14:34	1
Dibromofluoromethane (Surr)	103		70 - 130		03/09/17 14:34	1
Toluene-d8 (Surr)	101		70 - 130		03/09/17 14:34	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		03/09/17 14:34	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/09/17 14:34	1
Dibromofluoromethane (Surr)	103		70 - 130		03/09/17 14:34	1
Toluene-d8 (Surr)	101		70 - 130		03/09/17 14:34	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			03/03/17 04:01	1
Sulfate	13		1.0		mg/L			03/03/17 04:01	1
Nitrate as NO3	9.2		1.0		mg/L			03/03/17 04:01	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6.9		1.0		mg/L		03/08/17 11:35	03/09/17 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND	HF	0.10		mg/L			03/06/17 15:15	1
Ammonia	ND		0.20		mg/L		03/06/17 18:00	03/06/17 22:01	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	ND		0.020		mg/L			03/03/17 12:03	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-13

Date Collected: 03/02/17 14:45

Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 15:59	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/09/17 15:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 15:59	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/09/17 15:59	1
1,1-Dichloroethane	ND		0.50		ug/L			03/09/17 15:59	1
GRO (C4-C12)	ND		50		ug/L			03/09/17 15:59	1
1,1-Dichloroethene	ND		0.50		ug/L			03/09/17 15:59	1
1,1-Dichloropropene	ND		0.50		ug/L			03/09/17 15:59	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/09/17 15:59	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/09/17 15:59	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/09/17 15:59	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/09/17 15:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/09/17 15:59	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/09/17 15:59	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/09/17 15:59	1
1,2-Dichloroethane	ND		0.50		ug/L			03/09/17 15:59	1
1,2-Dichloropropane	ND		0.50		ug/L			03/09/17 15:59	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/09/17 15:59	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/09/17 15:59	1
1,3-Dichloropropane	ND		0.50		ug/L			03/09/17 15:59	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/09/17 15:59	1
2,2-Dichloropropane	ND		0.50		ug/L			03/09/17 15:59	1
2-Butanone (MEK)	ND		50		ug/L			03/09/17 15:59	1
2-Chlorotoluene	ND		0.50		ug/L			03/09/17 15:59	1
2-Hexanone	ND		5.0		ug/L			03/09/17 15:59	1
4-Chlorotoluene	ND		0.50		ug/L			03/09/17 15:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/09/17 15:59	1
Acetone	ND		5.0		ug/L			03/09/17 15:59	1
Benzene	ND		0.50		ug/L			03/09/17 15:59	1
Bromobenzene	ND		0.50		ug/L			03/09/17 15:59	1
Chlorobromomethane	ND		0.50		ug/L			03/09/17 15:59	1
Dichlorobromomethane	ND		0.50		ug/L			03/09/17 15:59	1
Bromoform	ND		0.50		ug/L			03/09/17 15:59	1
Bromomethane	ND		0.50		ug/L			03/09/17 15:59	1
Carbon disulfide	ND		0.50		ug/L			03/09/17 15:59	1
Carbon tetrachloride	ND		0.50		ug/L			03/09/17 15:59	1
Chlorobenzene	ND		0.50		ug/L			03/09/17 15:59	1
Chlorodibromomethane	ND		0.50		ug/L			03/09/17 15:59	1
Chloroethane	ND		0.50		ug/L			03/09/17 15:59	1
Chloroform	ND		0.50		ug/L			03/09/17 15:59	1
Chloromethane	ND		0.50		ug/L			03/09/17 15:59	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 15:59	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 15:59	1
Dibromomethane	ND		0.50		ug/L			03/09/17 15:59	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/09/17 15:59	1
Ethylbenzene	ND		0.50		ug/L			03/09/17 15:59	1
Hexachlorobutadiene	ND		1.0		ug/L			03/09/17 15:59	1
Isopropylbenzene	ND		1.0		ug/L			03/09/17 15:59	1
Methyl tert-butyl ether	1.1		0.50		ug/L			03/09/17 15:59	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-13
Date Collected: 03/02/17 14:45
Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			03/09/17 15:59	1
Naphthalene	ND		5.0		ug/L			03/09/17 15:59	1
n-Butylbenzene	ND		0.50		ug/L			03/09/17 15:59	1
N-Propylbenzene	ND		0.50		ug/L			03/09/17 15:59	1
4-Isopropyltoluene	ND		0.50		ug/L			03/09/17 15:59	1
sec-Butylbenzene	ND		0.50		ug/L			03/09/17 15:59	1
Styrene	ND		0.50		ug/L			03/09/17 15:59	1
tert-Butylbenzene	ND		0.50		ug/L			03/09/17 15:59	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 15:59	1
Toluene	ND		0.50		ug/L			03/09/17 15:59	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 15:59	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 15:59	1
Trichloroethene	ND		0.50		ug/L			03/09/17 15:59	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 15:59	1
Vinyl chloride	ND		0.50		ug/L			03/09/17 15:59	1
Xylenes, Total	ND		1.0		ug/L			03/09/17 15:59	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130				03/09/17 15:59	1
4-Bromofluorobenzene (Surr)	99		70 - 130				03/09/17 15:59	1
Dibromofluoromethane (Surr)	101		70 - 130				03/09/17 15:59	1
Toluene-d8 (Surr)	100		70 - 130				03/09/17 15:59	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130				03/09/17 15:59	1
4-Bromofluorobenzene (Surr)	99		70 - 130				03/09/17 15:59	1
Dibromofluoromethane (Surr)	101		70 - 130				03/09/17 15:59	1
Toluene-d8 (Surr)	100		70 - 130				03/09/17 15:59	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		10		mg/L			03/03/17 05:27	10
Sulfate	21		10		mg/L			03/03/17 05:27	10
Nitrate as NO3	200		10		mg/L			03/03/17 05:27	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11		1.0		mg/L		03/08/17 11:35	03/09/17 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND	HF	0.10		mg/L			03/06/17 15:15	1
Ammonia	ND		0.20		mg/L		03/06/17 18:00	03/06/17 22:04	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	0.037		0.020		mg/L			03/03/17 12:03	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-14

Date Collected: 03/02/17 14:12

Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 16:27	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/09/17 16:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 16:27	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/09/17 16:27	1
1,1-Dichloroethane	ND		0.50		ug/L			03/09/17 16:27	1
GRO (C4-C12)	6700		500		ug/L			03/10/17 18:03	10
1,1-Dichloroethene	ND		0.50		ug/L			03/09/17 16:27	1
1,1-Dichloropropene	ND		0.50		ug/L			03/09/17 16:27	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/09/17 16:27	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/09/17 16:27	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/09/17 16:27	1
1,2,4-Trimethylbenzene	300		0.50		ug/L			03/09/17 16:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/09/17 16:27	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/09/17 16:27	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/09/17 16:27	1
1,2-Dichloroethane	ND		0.50		ug/L			03/09/17 16:27	1
1,2-Dichloropropane	ND		0.50		ug/L			03/09/17 16:27	1
1,3,5-Trimethylbenzene	78		0.50		ug/L			03/09/17 16:27	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/09/17 16:27	1
1,3-Dichloropropane	ND		0.50		ug/L			03/09/17 16:27	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/09/17 16:27	1
2,2-Dichloropropane	ND		0.50		ug/L			03/09/17 16:27	1
2-Butanone (MEK)	ND		50		ug/L			03/09/17 16:27	1
2-Chlorotoluene	ND		0.50		ug/L			03/09/17 16:27	1
2-Hexanone	6.4		5.0		ug/L			03/09/17 16:27	1
4-Chlorotoluene	ND		0.50		ug/L			03/09/17 16:27	1
4-Methyl-2-pentanone (MIBK)	11		5.0		ug/L			03/09/17 16:27	1
Acetone	15		5.0		ug/L			03/09/17 16:27	1
Benzene	340		0.50		ug/L			03/09/17 16:27	1
Bromobenzene	ND		0.50		ug/L			03/09/17 16:27	1
Chlorobromomethane	ND		0.50		ug/L			03/09/17 16:27	1
Dichlorobromomethane	ND		0.50		ug/L			03/09/17 16:27	1
Bromoform	ND		0.50		ug/L			03/09/17 16:27	1
Bromomethane	ND		0.50		ug/L			03/09/17 16:27	1
Carbon disulfide	ND		0.50		ug/L			03/09/17 16:27	1
Carbon tetrachloride	ND		0.50		ug/L			03/09/17 16:27	1
Chlorobenzene	ND		0.50		ug/L			03/09/17 16:27	1
Chlorodibromomethane	ND		0.50		ug/L			03/09/17 16:27	1
Chloroethane	ND		0.50		ug/L			03/09/17 16:27	1
Chloroform	ND		0.50		ug/L			03/09/17 16:27	1
Chloromethane	ND		0.50		ug/L			03/09/17 16:27	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 16:27	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 16:27	1
Dibromomethane	ND		0.50		ug/L			03/09/17 16:27	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/09/17 16:27	1
Ethylbenzene	240		0.50		ug/L			03/09/17 16:27	1
Hexachlorobutadiene	ND		1.0		ug/L			03/09/17 16:27	1
Isopropylbenzene	19		1.0		ug/L			03/09/17 16:27	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/09/17 16:27	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-14

Lab Sample ID: 720-78006-5

Date Collected: 03/02/17 14:12

Matrix: Water

Date Received: 03/02/17 17:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			03/09/17 16:27	1
Naphthalene	110		5.0		ug/L			03/09/17 16:27	1
n-Butylbenzene	7.9		0.50		ug/L			03/09/17 16:27	1
N-Propylbenzene	43		0.50		ug/L			03/09/17 16:27	1
4-Isopropyltoluene	1.1		0.50		ug/L			03/09/17 16:27	1
sec-Butylbenzene	ND		0.50		ug/L			03/09/17 16:27	1
Styrene	ND		0.50		ug/L			03/09/17 16:27	1
tert-Butylbenzene	ND		0.50		ug/L			03/09/17 16:27	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 16:27	1
Toluene	720		5.0		ug/L			03/10/17 18:03	10
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 16:27	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 16:27	1
Trichloroethene	ND		0.50		ug/L			03/09/17 16:27	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 16:27	1
Vinyl chloride	ND		0.50		ug/L			03/09/17 16:27	1
Xylenes, Total	1600		10		ug/L			03/10/17 18:03	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		03/10/17 18:03	10
4-Bromofluorobenzene (Surr)	100		70 - 130		03/10/17 18:03	10
Dibromofluoromethane (Surr)	99		70 - 130		03/10/17 18:03	10
Toluene-d8 (Surr)	102		70 - 130		03/10/17 18:03	10
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		03/09/17 16:27	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		03/10/17 18:03	10
4-Bromofluorobenzene (Surr)	100		70 - 130		03/09/17 16:27	1
4-Bromofluorobenzene (Surr)	100		70 - 130		03/10/17 18:03	10
Dibromofluoromethane (Surr)	101		70 - 130		03/09/17 16:27	1
Dibromofluoromethane (Surr)	99		70 - 130		03/10/17 18:03	10
Toluene-d8 (Surr)	100		70 - 130		03/09/17 16:27	1
Toluene-d8 (Surr)	102		70 - 130		03/10/17 18:03	10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			03/03/17 05:44	1
Sulfate	14		1.0		mg/L			03/03/17 05:44	1
Nitrate as NO3	15		1.0		mg/L			03/03/17 05:44	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	12		1.0		mg/L		03/08/17 11:35	03/09/17 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.32	HF	0.10		mg/L			03/06/17 15:15	1
Ammonia	ND		0.20		mg/L		03/06/17 18:00	03/06/17 22:07	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	ND		0.020		mg/L			03/03/17 12:03	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-6R

Lab Sample ID: 720-78006-6

Date Collected: 03/02/17 16:00

Matrix: Water

Date Received: 03/02/17 17:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/13/17 16:44	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/13/17 16:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/13/17 16:44	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/13/17 16:44	1
1,1-Dichloroethane	ND		0.50		ug/L			03/13/17 16:44	1
GRO (C4-C12)	60		50		ug/L			03/13/17 16:44	1
1,1-Dichloroethene	ND		0.50		ug/L			03/13/17 16:44	1
1,1-Dichloropropene	ND		0.50		ug/L			03/13/17 16:44	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/13/17 16:44	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/13/17 16:44	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/13/17 16:44	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/13/17 16:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/13/17 16:44	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/13/17 16:44	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/13/17 16:44	1
1,2-Dichloroethane	ND		0.50		ug/L			03/13/17 16:44	1
1,2-Dichloropropane	ND		0.50		ug/L			03/13/17 16:44	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/13/17 16:44	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/13/17 16:44	1
1,3-Dichloropropane	ND		0.50		ug/L			03/13/17 16:44	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/13/17 16:44	1
2,2-Dichloropropane	ND		0.50		ug/L			03/13/17 16:44	1
2-Butanone (MEK)	ND		50		ug/L			03/13/17 16:44	1
2-Chlorotoluene	ND		0.50		ug/L			03/13/17 16:44	1
2-Hexanone	ND		5.0		ug/L			03/13/17 16:44	1
4-Chlorotoluene	ND		0.50		ug/L			03/13/17 16:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/13/17 16:44	1
Acetone	ND		5.0		ug/L			03/13/17 16:44	1
Benzene	ND		0.50		ug/L			03/13/17 16:44	1
Bromobenzene	ND		0.50		ug/L			03/13/17 16:44	1
Chlorobromomethane	ND		0.50		ug/L			03/13/17 16:44	1
Dichlorobromomethane	ND		0.50		ug/L			03/13/17 16:44	1
Bromoform	ND		0.50		ug/L			03/13/17 16:44	1
Bromomethane	ND		0.50		ug/L			03/13/17 16:44	1
Carbon disulfide	ND		0.50		ug/L			03/13/17 16:44	1
Carbon tetrachloride	ND		0.50		ug/L			03/13/17 16:44	1
Chlorobenzene	ND		0.50		ug/L			03/13/17 16:44	1
Chlorodibromomethane	ND		0.50		ug/L			03/13/17 16:44	1
Chloroethane	ND		0.50		ug/L			03/13/17 16:44	1
Chloroform	ND		0.50		ug/L			03/13/17 16:44	1
Chloromethane	ND		0.50		ug/L			03/13/17 16:44	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/13/17 16:44	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			03/13/17 16:44	1
Dibromomethane	ND		0.50		ug/L			03/13/17 16:44	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/13/17 16:44	1
Ethylbenzene	ND		0.50		ug/L			03/13/17 16:44	1
Hexachlorobutadiene	ND		1.0		ug/L			03/13/17 16:44	1
Isopropylbenzene	ND		1.0		ug/L			03/13/17 16:44	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/13/17 16:44	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-6R

Lab Sample ID: 720-78006-6

Date Collected: 03/02/17 16:00

Matrix: Water

Date Received: 03/02/17 17:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			03/13/17 16:44	1
Naphthalene	ND		5.0		ug/L			03/13/17 16:44	1
n-Butylbenzene	ND		0.50		ug/L			03/13/17 16:44	1
N-Propylbenzene	ND		0.50		ug/L			03/13/17 16:44	1
4-Isopropyltoluene	ND		0.50		ug/L			03/13/17 16:44	1
sec-Butylbenzene	ND		0.50		ug/L			03/13/17 16:44	1
Styrene	ND		0.50		ug/L			03/13/17 16:44	1
tert-Butylbenzene	ND		0.50		ug/L			03/13/17 16:44	1
Tetrachloroethene	ND		0.50		ug/L			03/13/17 16:44	1
Toluene	ND		0.50		ug/L			03/13/17 16:44	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/13/17 16:44	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/13/17 16:44	1
Trichloroethene	ND		0.50		ug/L			03/13/17 16:44	1
Trichlorofluoromethane	ND		0.50		ug/L			03/13/17 16:44	1
Vinyl chloride	ND		0.50		ug/L			03/13/17 16:44	1
Xylenes, Total	ND		1.0		ug/L			03/13/17 16:44	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130				03/13/17 16:44	1
4-Bromofluorobenzene (Surr)	100		70 - 130				03/13/17 16:44	1
Dibromofluoromethane (Surr)	100		70 - 130				03/13/17 16:44	1
Toluene-d8 (Surr)	101		70 - 130				03/13/17 16:44	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130				03/13/17 16:44	1
4-Bromofluorobenzene (Surr)	100		70 - 130				03/13/17 16:44	1
Dibromofluoromethane (Surr)	100		70 - 130				03/13/17 16:44	1
Toluene-d8 (Surr)	101		70 - 130				03/13/17 16:44	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		10		mg/L			03/03/17 06:35	10
Sulfate	23		10		mg/L			03/03/17 06:35	10
Nitrate as NO3	120		10		mg/L			03/03/17 06:35	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		03/08/17 11:35	03/09/17 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND	HF	0.10		mg/L			03/06/17 15:15	1
Ammonia	7.3		0.40		mg/L		03/06/17 18:00	03/06/17 22:10	2

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	5.1		0.20		mg/L			03/03/17 12:03	10

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-413303/9

Matrix: Water

Analysis Batch: 413303

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			03/09/17 14:06	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					03/09/17 14:06	1
4-Bromofluorobenzene (Surr)	98		70 - 130					03/09/17 14:06	1
Dibromofluoromethane (Surr)	100		70 - 130					03/09/17 14:06	1
Toluene-d8 (Surr)	101		70 - 130					03/09/17 14:06	1

Lab Sample ID: LCS 490-413303/7

Matrix: Water

Analysis Batch: 413303

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	917		ug/L		92	66 - 134
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	100		70 - 130				
4-Bromofluorobenzene (Surr)	102		70 - 130				
Dibromofluoromethane (Surr)	100		70 - 130				
Toluene-d8 (Surr)	99		70 - 130				

Lab Sample ID: MB 490-413304/9

Matrix: Water

Analysis Batch: 413304

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 14:06	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/09/17 14:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 14:06	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/09/17 14:06	1
1,1-Dichloroethane	ND		0.50		ug/L			03/09/17 14:06	1
1,1-Dichloroethene	ND		0.50		ug/L			03/09/17 14:06	1
1,1-Dichloropropene	ND		0.50		ug/L			03/09/17 14:06	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/09/17 14:06	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/09/17 14:06	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/09/17 14:06	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/09/17 14:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/09/17 14:06	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/09/17 14:06	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/09/17 14:06	1
1,2-Dichloroethane	ND		0.50		ug/L			03/09/17 14:06	1
1,2-Dichloropropane	ND		0.50		ug/L			03/09/17 14:06	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/09/17 14:06	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/09/17 14:06	1
1,3-Dichloropropane	ND		0.50		ug/L			03/09/17 14:06	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/09/17 14:06	1
2,2-Dichloropropane	ND		0.50		ug/L			03/09/17 14:06	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-413304/9
Matrix: Water
Analysis Batch: 413304

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		50		ug/L			03/09/17 14:06	1
2-Chlorotoluene	ND		0.50		ug/L			03/09/17 14:06	1
2-Hexanone	ND		5.0		ug/L			03/09/17 14:06	1
4-Chlorotoluene	ND		0.50		ug/L			03/09/17 14:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/09/17 14:06	1
Acetone	ND		5.0		ug/L			03/09/17 14:06	1
Benzene	ND		0.50		ug/L			03/09/17 14:06	1
Bromobenzene	ND		0.50		ug/L			03/09/17 14:06	1
Chlorobromomethane	ND		0.50		ug/L			03/09/17 14:06	1
Dichlorobromomethane	ND		0.50		ug/L			03/09/17 14:06	1
Bromoform	ND		0.50		ug/L			03/09/17 14:06	1
Bromomethane	ND		0.50		ug/L			03/09/17 14:06	1
Carbon disulfide	ND		0.50		ug/L			03/09/17 14:06	1
Carbon tetrachloride	ND		0.50		ug/L			03/09/17 14:06	1
Chlorobenzene	ND		0.50		ug/L			03/09/17 14:06	1
Chlorodibromomethane	ND		0.50		ug/L			03/09/17 14:06	1
Chloroethane	ND		0.50		ug/L			03/09/17 14:06	1
Chloroform	ND		0.50		ug/L			03/09/17 14:06	1
Chloromethane	ND		0.50		ug/L			03/09/17 14:06	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 14:06	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 14:06	1
Dibromomethane	ND		0.50		ug/L			03/09/17 14:06	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/09/17 14:06	1
Ethylbenzene	ND		0.50		ug/L			03/09/17 14:06	1
Hexachlorobutadiene	ND		1.0		ug/L			03/09/17 14:06	1
Isopropylbenzene	ND		1.0		ug/L			03/09/17 14:06	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/09/17 14:06	1
Methylene Chloride	ND		5.0		ug/L			03/09/17 14:06	1
Naphthalene	ND		5.0		ug/L			03/09/17 14:06	1
n-Butylbenzene	ND		0.50		ug/L			03/09/17 14:06	1
N-Propylbenzene	ND		0.50		ug/L			03/09/17 14:06	1
4-Isopropyltoluene	ND		0.50		ug/L			03/09/17 14:06	1
sec-Butylbenzene	ND		0.50		ug/L			03/09/17 14:06	1
Styrene	ND		0.50		ug/L			03/09/17 14:06	1
tert-Butylbenzene	ND		0.50		ug/L			03/09/17 14:06	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 14:06	1
Toluene	ND		0.50		ug/L			03/09/17 14:06	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 14:06	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 14:06	1
Trichloroethene	ND		0.50		ug/L			03/09/17 14:06	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 14:06	1
Vinyl chloride	ND		0.50		ug/L			03/09/17 14:06	1
Xylenes, Total	ND		1.0		ug/L			03/09/17 14:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		03/09/17 14:06	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/09/17 14:06	1
Dibromofluoromethane (Surr)	100		70 - 130		03/09/17 14:06	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-413304/9
Matrix: Water
Analysis Batch: 413304

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	%Recovery Qualifier	70 - 130		03/09/17 14:06	1

Lab Sample ID: LCS 490-413304/3
Matrix: Water
Analysis Batch: 413304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	18.6		ug/L		93	70 - 130
1,1,1-Trichloroethane	20.0	18.0		ug/L		90	70 - 135
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	69 - 131
1,1,2-Trichloroethane	20.0	19.3		ug/L		96	70 - 130
1,1-Dichloroethane	20.0	19.7		ug/L		98	70 - 130
1,1-Dichloroethene	20.0	20.0		ug/L		100	70 - 132
1,1-Dichloropropene	20.0	19.8		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	20.0	18.4		ug/L		92	46 - 150
1,2,3-Trichloropropane	20.0	17.1		ug/L		86	70 - 131
1,2,4-Trichlorobenzene	20.0	18.4		ug/L		92	58 - 147
1,2,4-Trimethylbenzene	20.0	20.0		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	18.4		ug/L		92	45 - 138
1,2-Dibromoethane (EDB)	20.0	18.7		ug/L		93	70 - 130
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	70 - 130
1,2-Dichloroethane	20.0	17.5		ug/L		88	70 - 130
1,2-Dichloropropane	20.0	20.2		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	20.0	20.0		ug/L		100	70 - 130
1,3-Dichlorobenzene	20.0	18.9		ug/L		94	70 - 130
1,3-Dichloropropane	20.0	19.2		ug/L		96	70 - 130
1,4-Dichlorobenzene	20.0	18.4		ug/L		92	70 - 130
2,2-Dichloropropane	20.0	18.0		ug/L		90	60 - 143
2-Butanone (MEK)	100	93.2		ug/L		93	55 - 143
2-Chlorotoluene	20.0	19.9		ug/L		99	70 - 130
2-Hexanone	100	97.8		ug/L		98	54 - 142
4-Chlorotoluene	20.0	19.6		ug/L		98	70 - 130
4-Methyl-2-pentanone (MIBK)	100	98.4		ug/L		98	60 - 137
Acetone	100	98.6		ug/L		99	39 - 150
Benzene	20.0	20.6		ug/L		103	70 - 130
Bromobenzene	20.0	20.4		ug/L		102	70 - 130
Chlorobromomethane	20.0	17.6		ug/L		88	70 - 130
Dichlorobromomethane	20.0	18.7		ug/L		93	70 - 130
Bromoform	20.0	19.1		ug/L		96	70 - 137
Bromomethane	20.0	18.2		ug/L		91	53 - 150
Carbon disulfide	20.0	20.6		ug/L		103	64 - 135
Carbon tetrachloride	20.0	18.5		ug/L		92	70 - 147
Chlorobenzene	20.0	19.4		ug/L		97	70 - 130
Chlorodibromomethane	20.0	20.0		ug/L		100	70 - 133
Chloroethane	20.0	22.8		ug/L		114	60 - 138
Chloroform	20.0	18.7		ug/L		94	70 - 130
Chloromethane	20.0	23.9		ug/L		120	33 - 150
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-413304/3
Matrix: Water
Analysis Batch: 413304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	20.0	19.5		ug/L		97	70 - 133
Dibromomethane	20.0	18.4		ug/L		92	70 - 130
Dichlorodifluoromethane	20.0	23.1		ug/L		115	48 - 150
Ethylbenzene	20.0	19.7		ug/L		98	70 - 130
Hexachlorobutadiene	20.0	18.9		ug/L		94	70 - 138
Isopropylbenzene	20.0	19.5		ug/L		98	70 - 131
Methyl tert-butyl ether	20.0	18.4		ug/L		92	70 - 130
Methylene Chloride	20.0	19.8		ug/L		99	70 - 130
Naphthalene	20.0	18.9		ug/L		94	54 - 150
n-Butylbenzene	20.0	19.2		ug/L		96	68 - 137
N-Propylbenzene	20.0	20.9		ug/L		104	70 - 134
4-Isopropyltoluene	20.0	19.8		ug/L		99	66 - 130
sec-Butylbenzene	20.0	20.2		ug/L		101	70 - 135
Styrene	20.0	19.1		ug/L		95	70 - 130
tert-Butylbenzene	20.0	19.8		ug/L		99	70 - 130
Tetrachloroethene	20.0	19.7		ug/L		98	70 - 130
Toluene	20.0	20.1		ug/L		101	70 - 130
trans-1,2-Dichloroethene	20.0	20.1		ug/L		100	70 - 130
trans-1,3-Dichloropropene	20.0	18.3		ug/L		92	63 - 142
Trichloroethene	20.0	20.0		ug/L		100	70 - 130
Trichlorofluoromethane	20.0	19.2		ug/L		96	59 - 150
Vinyl chloride	20.0	23.3		ug/L		116	57 - 137
Xylenes, Total	40.0	39.1		ug/L		98	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 490-413304/4
Matrix: Water
Analysis Batch: 413304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.4		ug/L		97	70 - 130	4	13
1,1,1-Trichloroethane	20.0	18.3		ug/L		92	70 - 135	2	15
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	69 - 131	0	15
1,1,2-Trichloroethane	20.0	19.8		ug/L		99	70 - 130	3	13
1,1-Dichloroethane	20.0	19.9		ug/L		100	70 - 130	1	17
1,1-Dichloroethene	20.0	20.8		ug/L		104	70 - 132	4	20
1,1-Dichloropropene	20.0	20.2		ug/L		101	70 - 130	2	16
1,2,3-Trichlorobenzene	20.0	18.8		ug/L		94	46 - 150	2	16
1,2,3-Trichloropropane	20.0	17.5		ug/L		88	70 - 131	2	14
1,2,4-Trichlorobenzene	20.0	18.6		ug/L		93	58 - 147	1	15
1,2,4-Trimethylbenzene	20.0	20.3		ug/L		101	70 - 130	1	13
1,2-Dibromo-3-Chloropropane	20.0	18.7		ug/L		94	45 - 138	2	19
1,2-Dibromoethane (EDB)	20.0	19.1		ug/L		96	70 - 130	2	13

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-413304/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 413304

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	20.0	19.3		ug/L		97	70 - 130	2	12
1,2-Dichloroethane	20.0	17.6		ug/L		88	70 - 130	0	13
1,2-Dichloropropane	20.0	20.6		ug/L		103	70 - 130	2	15
1,3,5-Trimethylbenzene	20.0	20.4		ug/L		102	70 - 130	2	14
1,3-Dichlorobenzene	20.0	19.3		ug/L		96	70 - 130	2	13
1,3-Dichloropropane	20.0	19.7		ug/L		98	70 - 130	3	12
1,4-Dichlorobenzene	20.0	18.9		ug/L		94	70 - 130	2	12
2,2-Dichloropropane	20.0	18.7		ug/L		93	60 - 143	3	20
2-Butanone (MEK)	100	96.2		ug/L		96	55 - 143	3	19
2-Chlorotoluene	20.0	20.1		ug/L		100	70 - 130	1	15
2-Hexanone	100	101		ug/L		101	54 - 142	3	17
4-Chlorotoluene	20.0	20.3		ug/L		101	70 - 130	3	15
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101	60 - 137	2	21
Acetone	100	104		ug/L		104	39 - 150	5	23
Benzene	20.0	21.1		ug/L		106	70 - 130	3	12
Bromobenzene	20.0	20.4		ug/L		102	70 - 130	0	16
Chlorobromomethane	20.0	18.5		ug/L		92	70 - 130	5	16
Dichlorobromomethane	20.0	19.2		ug/L		96	70 - 130	3	14
Bromoform	20.0	19.6		ug/L		98	70 - 137	2	14
Bromomethane	20.0	20.0		ug/L		100	53 - 150	9	19
Carbon disulfide	20.0	21.2		ug/L		106	64 - 135	3	16
Carbon tetrachloride	20.0	19.0		ug/L		95	70 - 147	3	16
Chlorobenzene	20.0	20.0		ug/L		100	70 - 130	3	12
Chlorodibromomethane	20.0	20.6		ug/L		103	70 - 133	3	13
Chloroethane	20.0	21.8		ug/L		109	60 - 138	5	15
Chloroform	20.0	19.2		ug/L		96	70 - 130	2	14
Chloromethane	20.0	24.6		ug/L		123	33 - 150	3	20
cis-1,2-Dichloroethene	20.0	20.2		ug/L		101	70 - 130	2	15
cis-1,3-Dichloropropene	20.0	20.4		ug/L		102	70 - 133	5	15
Dibromomethane	20.0	19.0		ug/L		95	70 - 130	3	14
Dichlorodifluoromethane	20.0	23.7		ug/L		118	48 - 150	3	16
Ethylbenzene	20.0	20.3		ug/L		101	70 - 130	3	12
Hexachlorobutadiene	20.0	19.2		ug/L		96	70 - 138	2	16
Isopropylbenzene	20.0	20.3		ug/L		102	70 - 131	4	13
Methyl tert-butyl ether	20.0	18.2		ug/L		91	70 - 130	1	16
Methylene Chloride	20.0	20.4		ug/L		102	70 - 130	3	15
Naphthalene	20.0	19.1		ug/L		95	54 - 150	1	15
n-Butylbenzene	20.0	19.5		ug/L		97	68 - 137	2	14
N-Propylbenzene	20.0	21.1		ug/L		105	70 - 134	1	14
4-Isopropyltoluene	20.0	20.0		ug/L		100	66 - 130	1	13
sec-Butylbenzene	20.0	20.5		ug/L		102	70 - 135	2	14
Styrene	20.0	19.6		ug/L		98	70 - 130	3	12
tert-Butylbenzene	20.0	20.2		ug/L		101	70 - 130	2	14
Tetrachloroethene	20.0	19.9		ug/L		99	70 - 130	1	17
Toluene	20.0	20.8		ug/L		104	70 - 130	3	13
trans-1,2-Dichloroethene	20.0	20.6		ug/L		103	70 - 130	3	15
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	63 - 142	4	13
Trichloroethene	20.0	20.3		ug/L		102	70 - 130	1	14

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-413304/4

Matrix: Water

Analysis Batch: 413304

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	20.0	19.6		ug/L		98	59 - 150	2	22
Vinyl chloride	20.0	23.8		ug/L		119	57 - 137	2	15
Xylenes, Total	40.0	40.7		ug/L		102	70 - 132	4	11

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: 720-78006-3 MS

Matrix: Water

Analysis Batch: 413304

Client Sample ID: MW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		20.0	21.1		ug/L		105	70 - 131
1,1,1-Trichloroethane	ND		20.0	21.1		ug/L		105	68 - 144
1,1,2,2-Tetrachloroethane	ND		20.0	23.1		ug/L		116	56 - 145
1,1,2-Trichloroethane	ND		20.0	21.9		ug/L		110	70 - 130
1,1-Dichloroethane	ND		20.0	22.5		ug/L		112	61 - 139
1,1-Dichloroethene	ND		20.0	24.4		ug/L		122	54 - 150
1,1-Dichloropropene	ND		20.0	23.6		ug/L		118	54 - 150
1,2,3-Trichlorobenzene	ND		20.0	21.0		ug/L		105	36 - 150
1,2,3-Trichloropropane	ND		20.0	19.3		ug/L		97	65 - 131
1,2,4-Trichlorobenzene	ND		20.0	20.7		ug/L		104	47 - 147
1,2,4-Trimethylbenzene	ND		20.0	22.4		ug/L		112	64 - 136
1,2-Dibromo-3-Chloropropane	ND		20.0	20.9		ug/L		104	38 - 138
1,2-Dibromoethane (EDB)	ND		20.0	20.9		ug/L		104	65 - 137
1,2-Dichlorobenzene	ND		20.0	21.5		ug/L		108	70 - 130
1,2-Dichloroethane	ND		20.0	20.3		ug/L		102	64 - 136
1,2-Dichloropropane	ND		20.0	23.5		ug/L		117	67 - 130
1,3,5-Trimethylbenzene	ND		20.0	22.6		ug/L		113	69 - 139
1,3-Dichlorobenzene	ND		20.0	21.6		ug/L		108	68 - 131
1,3-Dichloropropane	ND		20.0	21.8		ug/L		109	70 - 130
1,4-Dichlorobenzene	ND		20.0	21.2		ug/L		106	70 - 130
2,2-Dichloropropane	ND		20.0	21.1		ug/L		106	50 - 146
2-Butanone (MEK)	ND		100	106		ug/L		106	50 - 143
2-Chlorotoluene	ND		20.0	22.1		ug/L		111	67 - 138
2-Hexanone	ND		100	109		ug/L		109	44 - 150
4-Chlorotoluene	ND		20.0	22.6		ug/L		113	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		100	110		ug/L		110	50 - 140
Acetone	ND		100	116		ug/L		116	39 - 150
Benzene	ND		20.0	23.8		ug/L		119	55 - 147
Bromobenzene	ND		20.0	22.7		ug/L		114	60 - 133
Chlorobromomethane	ND		20.0	20.9		ug/L		105	59 - 132
Dichlorobromomethane	ND		20.0	21.9		ug/L		109	70 - 140
Bromoform	ND		20.0	21.7		ug/L		109	53 - 150
Bromomethane	ND		20.0	23.4		ug/L		117	30 - 150

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-78006-3 MS

Matrix: Water

Analysis Batch: 413304

Client Sample ID: MW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	ND		20.0	24.1		ug/L		121	35 - 150
Carbon tetrachloride	ND		20.0	22.5		ug/L		112	56 - 150
Chlorobenzene	ND		20.0	22.1		ug/L		110	70 - 130
Chlorodibromomethane	ND		20.0	22.5		ug/L		113	66 - 140
Chloroethane	ND		20.0	27.3		ug/L		136	58 - 141
Chloroform	ND		20.0	21.6		ug/L		108	66 - 138
Chloromethane	ND		20.0	29.8		ug/L		149	10 - 150
cis-1,2-Dichloroethene	ND		20.0	22.8		ug/L		114	68 - 131
cis-1,3-Dichloropropene	ND		20.0	22.1		ug/L		110	70 - 133
Dibromomethane	ND		20.0	21.9		ug/L		110	70 - 130
Dichlorodifluoromethane	ND	F1	20.0	32.5	F1	ug/L		162	10 - 150
Ethylbenzene	ND		20.0	22.3		ug/L		112	65 - 139
Hexachlorobutadiene	ND		20.0	20.7		ug/L		103	61 - 141
Isopropylbenzene	ND		20.0	22.6		ug/L		113	70 - 137
Methyl tert-butyl ether	ND		20.0	21.0		ug/L		105	55 - 141
Methylene Chloride	ND		20.0	22.6		ug/L		113	64 - 130
Naphthalene	ND		20.0	21.1		ug/L		105	32 - 150
n-Butylbenzene	ND		20.0	22.0		ug/L		110	61 - 141
N-Propylbenzene	ND		20.0	23.6		ug/L		118	53 - 150
4-Isopropyltoluene	ND		20.0	22.2		ug/L		111	66 - 137
sec-Butylbenzene	ND		20.0	22.8		ug/L		114	55 - 136
Styrene	ND		20.0	21.6		ug/L		108	70 - 130
tert-Butylbenzene	ND		20.0	22.3		ug/L		112	70 - 138
Tetrachloroethene	ND		20.0	22.6		ug/L		113	57 - 138
Toluene	ND		20.0	22.7		ug/L		114	64 - 136
trans-1,2-Dichloroethene	ND		20.0	23.7		ug/L		118	59 - 143
trans-1,3-Dichloropropene	ND		20.0	20.6		ug/L		103	63 - 142
Trichloroethene	ND		20.0	23.1		ug/L		116	63 - 135
Trichlorofluoromethane	ND		20.0	23.9		ug/L		120	44 - 150
Vinyl chloride	ND		20.0	29.6		ug/L		148	57 - 150
Xylenes, Total	ND		40.0	43.8		ug/L		110	69 - 132

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: 720-78006-3 MSD

Matrix: Water

Analysis Batch: 413304

Client Sample ID: MW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.0	20.2		ug/L		101	70 - 131	4	16
1,1,1-Trichloroethane	ND		20.0	19.9		ug/L		99	68 - 144	6	17
1,1,2,2-Tetrachloroethane	ND		20.0	21.4		ug/L		107	56 - 145	8	19
1,1,2-Trichloroethane	ND		20.0	20.8		ug/L		104	70 - 130	5	18
1,1-Dichloroethane	ND		20.0	21.7		ug/L		108	61 - 139	4	23

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-78006-3 MSD
Matrix: Water
Analysis Batch: 413304

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		20.0	23.4		ug/L		117	54 - 150	5	24
1,1-Dichloropropene	ND		20.0	22.4		ug/L		112	54 - 150	5	24
1,2,3-Trichlorobenzene	ND		20.0	19.6		ug/L		98	36 - 150	7	43
1,2,3-Trichloropropane	ND		20.0	18.5		ug/L		93	65 - 131	4	19
1,2,4-Trichlorobenzene	ND		20.0	19.6		ug/L		98	47 - 147	6	24
1,2,4-Trimethylbenzene	ND		20.0	21.0		ug/L		105	64 - 136	6	18
1,2-Dibromo-3-Chloropropane	ND		20.0	19.3		ug/L		97	38 - 138	8	26
1,2-Dibromoethane (EDB)	ND		20.0	19.8		ug/L		99	65 - 137	5	21
1,2-Dichlorobenzene	ND		20.0	20.1		ug/L		100	70 - 130	7	15
1,2-Dichloroethane	ND		20.0	19.0		ug/L		95	64 - 136	7	22
1,2-Dichloropropane	ND		20.0	22.2		ug/L		111	67 - 130	5	19
1,3,5-Trimethylbenzene	ND		20.0	21.3		ug/L		106	69 - 139	6	17
1,3-Dichlorobenzene	ND		20.0	20.2		ug/L		101	68 - 131	7	14
1,3-Dichloropropane	ND		20.0	20.8		ug/L		104	70 - 130	5	17
1,4-Dichlorobenzene	ND		20.0	20.1		ug/L		100	70 - 130	5	14
2,2-Dichloropropane	ND		20.0	20.2		ug/L		101	50 - 146	4	20
2-Butanone (MEK)	ND		100	100		ug/L		100	50 - 143	6	28
2-Chlorotoluene	ND		20.0	21.2		ug/L		106	67 - 138	5	17
2-Hexanone	ND		100	103		ug/L		103	44 - 150	6	21
4-Chlorotoluene	ND		20.0	21.1		ug/L		106	69 - 138	7	15
4-Methyl-2-pentanone (MIBK)	ND		100	105		ug/L		105	50 - 140	5	24
Acetone	ND		100	110		ug/L		110	39 - 150	5	28
Benzene	ND		20.0	22.4		ug/L		112	55 - 147	6	22
Bromobenzene	ND		20.0	21.4		ug/L		107	60 - 133	6	18
Chlorobromomethane	ND		20.0	19.8		ug/L		99	59 - 132	5	21
Dichlorobromomethane	ND		20.0	20.9		ug/L		104	70 - 140	5	196
Bromoform	ND		20.0	20.5		ug/L		102	53 - 150	6	20
Bromomethane	ND		20.0	22.4		ug/L		112	30 - 150	4	44
Carbon disulfide	ND		20.0	22.8		ug/L		114	35 - 150	6	34
Carbon tetrachloride	ND		20.0	21.2		ug/L		106	56 - 150	6	18
Chlorobenzene	ND		20.0	20.9		ug/L		104	70 - 130	6	15
Chlorodibromomethane	ND		20.0	21.2		ug/L		106	66 - 140	6	19
Chloroethane	ND		20.0	25.7		ug/L		129	58 - 141	6	31
Chloroform	ND		20.0	20.4		ug/L		102	66 - 138	6	21
Chloromethane	ND		20.0	27.7		ug/L		138	10 - 150	7	43
cis-1,2-Dichloroethene	ND		20.0	21.5		ug/L		108	68 - 131	6	21
cis-1,3-Dichloropropene	ND		20.0	21.0		ug/L		105	70 - 133	5	19
Dibromomethane	ND		20.0	20.3		ug/L		102	70 - 130	7	19
Dichlorodifluoromethane	ND	F1	20.0	29.7		ug/L		148	10 - 150	9	50
Ethylbenzene	ND		20.0	21.0		ug/L		105	65 - 139	6	18
Hexachlorobutadiene	ND		20.0	19.5		ug/L		98	61 - 141	6	26
Isopropylbenzene	ND		20.0	21.2		ug/L		106	70 - 137	6	17
Methyl tert-butyl ether	ND		20.0	19.8		ug/L		99	55 - 141	6	24
Methylene Chloride	ND		20.0	21.5		ug/L		107	64 - 130	5	22
Naphthalene	ND		20.0	19.9		ug/L		99	32 - 150	6	40
n-Butylbenzene	ND		20.0	20.5		ug/L		102	61 - 141	7	17
N-Propylbenzene	ND		20.0	22.0		ug/L		110	53 - 150	7	18
4-Isopropyltoluene	ND		20.0	21.2		ug/L		106	66 - 137	4	16

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-78006-3 MSD
Matrix: Water
Analysis Batch: 413304

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		20.0	21.4		ug/L		107	55 - 136	6	50
Styrene	ND		20.0	20.4		ug/L		102	70 - 130	6	16
tert-Butylbenzene	ND		20.0	21.0		ug/L		105	70 - 138	6	17
Tetrachloroethene	ND		20.0	21.4		ug/L		107	57 - 138	5	17
Toluene	ND		20.0	21.6		ug/L		108	64 - 136	5	18
trans-1,2-Dichloroethene	ND		20.0	22.2		ug/L		111	59 - 143	6	25
trans-1,3-Dichloropropene	ND		20.0	19.7		ug/L		98	63 - 142	4	18
Trichloroethene	ND		20.0	21.9		ug/L		109	63 - 135	6	17
Trichlorofluoromethane	ND		20.0	22.3		ug/L		111	44 - 150	7	32
Vinyl chloride	ND		20.0	28.1		ug/L		141	57 - 150	5	37
Xylenes, Total	ND		40.0	41.2		ug/L		103	69 - 132	6	17

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: MB 490-413568/9
Matrix: Water
Analysis Batch: 413568

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			03/10/17 13:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		03/10/17 13:48	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/10/17 13:48	1
Dibromofluoromethane (Surr)	101		70 - 130		03/10/17 13:48	1
Toluene-d8 (Surr)	101		70 - 130		03/10/17 13:48	1

Lab Sample ID: LCS 490-413568/7
Matrix: Water
Analysis Batch: 413568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	753		ug/L		75	66 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-413569/9

Matrix: Water

Analysis Batch: 413569

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 13:48	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/10/17 13:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 13:48	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/10/17 13:48	1
1,1-Dichloroethane	ND		0.50		ug/L			03/10/17 13:48	1
1,1-Dichloroethene	ND		0.50		ug/L			03/10/17 13:48	1
1,1-Dichloropropene	ND		0.50		ug/L			03/10/17 13:48	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/10/17 13:48	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/10/17 13:48	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/10/17 13:48	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/10/17 13:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/10/17 13:48	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/10/17 13:48	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/10/17 13:48	1
1,2-Dichloroethane	ND		0.50		ug/L			03/10/17 13:48	1
1,2-Dichloropropane	ND		0.50		ug/L			03/10/17 13:48	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/10/17 13:48	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/10/17 13:48	1
1,3-Dichloropropane	ND		0.50		ug/L			03/10/17 13:48	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/10/17 13:48	1
2,2-Dichloropropane	ND		0.50		ug/L			03/10/17 13:48	1
2-Butanone (MEK)	ND		50		ug/L			03/10/17 13:48	1
2-Chlorotoluene	ND		0.50		ug/L			03/10/17 13:48	1
2-Hexanone	ND		5.0		ug/L			03/10/17 13:48	1
4-Chlorotoluene	ND		0.50		ug/L			03/10/17 13:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/10/17 13:48	1
Acetone	ND		5.0		ug/L			03/10/17 13:48	1
Benzene	ND		0.50		ug/L			03/10/17 13:48	1
Bromobenzene	ND		0.50		ug/L			03/10/17 13:48	1
Chlorobromomethane	ND		0.50		ug/L			03/10/17 13:48	1
Dichlorobromomethane	ND		0.50		ug/L			03/10/17 13:48	1
Bromoform	ND		0.50		ug/L			03/10/17 13:48	1
Bromomethane	ND		0.50		ug/L			03/10/17 13:48	1
Carbon disulfide	ND		0.50		ug/L			03/10/17 13:48	1
Carbon tetrachloride	ND		0.50		ug/L			03/10/17 13:48	1
Chlorobenzene	ND		0.50		ug/L			03/10/17 13:48	1
Chlorodibromomethane	ND		0.50		ug/L			03/10/17 13:48	1
Chloroethane	ND		0.50		ug/L			03/10/17 13:48	1
Chloroform	ND		0.50		ug/L			03/10/17 13:48	1
Chloromethane	ND		0.50		ug/L			03/10/17 13:48	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 13:48	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			03/10/17 13:48	1
Dibromomethane	ND		0.50		ug/L			03/10/17 13:48	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/10/17 13:48	1
Ethylbenzene	ND		0.50		ug/L			03/10/17 13:48	1
Hexachlorobutadiene	ND		1.0		ug/L			03/10/17 13:48	1
Isopropylbenzene	ND		1.0		ug/L			03/10/17 13:48	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/10/17 13:48	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-413569/9
Matrix: Water
Analysis Batch: 413569

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			03/10/17 13:48	1
Naphthalene	ND		5.0		ug/L			03/10/17 13:48	1
n-Butylbenzene	ND		0.50		ug/L			03/10/17 13:48	1
N-Propylbenzene	ND		0.50		ug/L			03/10/17 13:48	1
4-Isopropyltoluene	ND		0.50		ug/L			03/10/17 13:48	1
sec-Butylbenzene	ND		0.50		ug/L			03/10/17 13:48	1
Styrene	ND		0.50		ug/L			03/10/17 13:48	1
tert-Butylbenzene	ND		0.50		ug/L			03/10/17 13:48	1
Tetrachloroethene	ND		0.50		ug/L			03/10/17 13:48	1
Toluene	ND		0.50		ug/L			03/10/17 13:48	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 13:48	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/10/17 13:48	1
Trichloroethene	ND		0.50		ug/L			03/10/17 13:48	1
Trichlorofluoromethane	ND		0.50		ug/L			03/10/17 13:48	1
Vinyl chloride	ND		0.50		ug/L			03/10/17 13:48	1
Xylenes, Total	ND		1.0		ug/L			03/10/17 13:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		03/10/17 13:48	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/10/17 13:48	1
Dibromofluoromethane (Surr)	101		70 - 130		03/10/17 13:48	1
Toluene-d8 (Surr)	101		70 - 130		03/10/17 13:48	1

Lab Sample ID: LCS 490-413569/3
Matrix: Water
Analysis Batch: 413569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	18.8		ug/L		94	70 - 130
1,1,1-Trichloroethane	20.0	18.3		ug/L		92	70 - 135
1,1,2,2-Tetrachloroethane	20.0	21.3		ug/L		107	69 - 131
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	70 - 130
1,1-Dichloroethane	20.0	20.2		ug/L		101	70 - 130
1,1-Dichloroethene	20.0	21.6		ug/L		108	70 - 132
1,1-Dichloropropene	20.0	20.9		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	20.0	19.1		ug/L		95	46 - 150
1,2,3-Trichloropropane	20.0	17.8		ug/L		89	70 - 131
1,2,4-Trichlorobenzene	20.0	19.3		ug/L		97	58 - 147
1,2,4-Trimethylbenzene	20.0	20.2		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	18.6		ug/L		93	45 - 138
1,2-Dibromoethane (EDB)	20.0	19.1		ug/L		95	70 - 130
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	70 - 130
1,2-Dichloroethane	20.0	18.3		ug/L		91	70 - 130
1,2-Dichloropropane	20.0	21.4		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	20.0	19.9		ug/L		100	70 - 130
1,3-Dichlorobenzene	20.0	19.5		ug/L		97	70 - 130
1,3-Dichloropropane	20.0	19.8		ug/L		99	70 - 130
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-413569/3

Matrix: Water

Analysis Batch: 413569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	20.0	19.6		ug/L		98	60 - 143
2-Butanone (MEK)	100	95.4		ug/L		95	55 - 143
2-Chlorotoluene	20.0	20.2		ug/L		101	70 - 130
2-Hexanone	100	98.9		ug/L		99	54 - 142
4-Chlorotoluene	20.0	20.0		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101	60 - 137
Acetone	100	104		ug/L		104	39 - 150
Benzene	20.0	21.3		ug/L		107	70 - 130
Bromobenzene	20.0	20.5		ug/L		103	70 - 130
Chlorobromomethane	20.0	18.5		ug/L		93	70 - 130
Dichlorobromomethane	20.0	19.7		ug/L		99	70 - 130
Bromoform	20.0	19.8		ug/L		99	70 - 137
Bromomethane	20.0	21.3		ug/L		107	53 - 150
Carbon disulfide	20.0	21.4		ug/L		107	64 - 135
Carbon tetrachloride	20.0	19.4		ug/L		97	70 - 147
Chlorobenzene	20.0	19.6		ug/L		98	70 - 130
Chlorodibromomethane	20.0	20.3		ug/L		102	70 - 133
Chloroethane	20.0	24.9		ug/L		124	60 - 138
Chloroform	20.0	19.4		ug/L		97	70 - 130
Chloromethane	20.0	27.5		ug/L		137	33 - 150
cis-1,2-Dichloroethene	20.0	20.6		ug/L		103	70 - 130
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	70 - 133
Dibromomethane	20.0	19.7		ug/L		98	70 - 130
Ethylbenzene	20.0	20.1		ug/L		101	70 - 130
Hexachlorobutadiene	20.0	19.9		ug/L		99	70 - 138
Isopropylbenzene	20.0	19.8		ug/L		99	70 - 131
Methyl tert-butyl ether	20.0	18.7		ug/L		93	70 - 130
Methylene Chloride	20.0	21.2		ug/L		106	70 - 130
Naphthalene	20.0	19.5		ug/L		98	54 - 150
n-Butylbenzene	20.0	19.9		ug/L		100	68 - 137
N-Propylbenzene	20.0	21.0		ug/L		105	70 - 134
4-Isopropyltoluene	20.0	19.9		ug/L		100	66 - 130
sec-Butylbenzene	20.0	20.4		ug/L		102	70 - 135
Styrene	20.0	19.5		ug/L		97	70 - 130
tert-Butylbenzene	20.0	20.0		ug/L		100	70 - 130
Tetrachloroethene	20.0	19.9		ug/L		99	70 - 130
Toluene	20.0	20.3		ug/L		102	70 - 130
trans-1,2-Dichloroethene	20.0	20.9		ug/L		105	70 - 130
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	63 - 142
Trichloroethene	20.0	20.1		ug/L		100	70 - 130
Trichlorofluoromethane	20.0	19.7		ug/L		99	59 - 150
Vinyl chloride	20.0	26.9		ug/L		135	57 - 137
Xylenes, Total	40.0	39.5		ug/L		99	70 - 132

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-413569/3
Matrix: Water
Analysis Batch: 413569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: LCSD 490-413569/4
Matrix: Water
Analysis Batch: 413569

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.3		ug/L		96	70 - 130	2	13
1,1,1-Trichloroethane	20.0	18.2		ug/L		91	70 - 135	1	15
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		104	69 - 131	3	15
1,1,2-Trichloroethane	20.0	19.6		ug/L		98	70 - 130	2	13
1,1-Dichloroethane	20.0	19.9		ug/L		99	70 - 130	2	17
1,1-Dichloroethene	20.0	20.6		ug/L		103	70 - 132	5	20
1,1-Dichloropropene	20.0	20.2		ug/L		101	70 - 130	3	16
1,2,3-Trichlorobenzene	20.0	19.0		ug/L		95	46 - 150	0	16
1,2,3-Trichloropropane	20.0	17.1		ug/L		86	70 - 131	4	14
1,2,4-Trichlorobenzene	20.0	19.2		ug/L		96	58 - 147	1	15
1,2,4-Trimethylbenzene	20.0	20.6		ug/L		103	70 - 130	2	13
1,2-Dibromo-3-Chloropropane	20.0	18.2		ug/L		91	45 - 138	2	19
1,2-Dibromoethane (EDB)	20.0	19.1		ug/L		96	70 - 130	0	13
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	70 - 130	0	12
1,2-Dichloroethane	20.0	17.7		ug/L		89	70 - 130	3	13
1,2-Dichloropropane	20.0	20.6		ug/L		103	70 - 130	3	15
1,3,5-Trimethylbenzene	20.0	20.5		ug/L		102	70 - 130	3	14
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	70 - 130	1	13
1,3-Dichloropropane	20.0	19.3		ug/L		97	70 - 130	2	12
1,4-Dichlorobenzene	20.0	19.3		ug/L		96	70 - 130	1	12
2,2-Dichloropropane	20.0	18.9		ug/L		95	60 - 143	3	20
2-Butanone (MEK)	100	91.7		ug/L		92	55 - 143	4	19
2-Chlorotoluene	20.0	20.2		ug/L		101	70 - 130	0	15
2-Hexanone	100	95.2		ug/L		95	54 - 142	4	17
4-Chlorotoluene	20.0	20.5		ug/L		102	70 - 130	2	15
4-Methyl-2-pentanone (MIBK)	100	97.6		ug/L		98	60 - 137	3	21
Acetone	100	96.2		ug/L		96	39 - 150	8	23
Benzene	20.0	21.0		ug/L		105	70 - 130	2	12
Bromobenzene	20.0	20.7		ug/L		103	70 - 130	1	16
Chlorobromomethane	20.0	18.0		ug/L		90	70 - 130	3	16
Dichlorobromomethane	20.0	19.3		ug/L		97	70 - 130	2	14
Bromoform	20.0	19.7		ug/L		98	70 - 137	1	14
Bromomethane	20.0	20.3		ug/L		102	53 - 150	5	19
Carbon disulfide	20.0	20.9		ug/L		105	64 - 135	2	16
Carbon tetrachloride	20.0	19.2		ug/L		96	70 - 147	1	16
Chlorobenzene	20.0	19.9		ug/L		99	70 - 130	2	12
Chlorodibromomethane	20.0	20.3		ug/L		101	70 - 133	0	13
Chloroethane	20.0	24.3		ug/L		121	60 - 138	2	15
Chloroform	20.0	19.0		ug/L		95	70 - 130	2	14
Chloromethane	20.0	26.4		ug/L		132	33 - 150	4	20
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	70 - 130	4	15

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-413569/4
Matrix: Water
Analysis Batch: 413569

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	20.0	20.3		ug/L		101	70 - 133	1	15
Dibromomethane	20.0	18.6		ug/L		93	70 - 130	5	14
Ethylbenzene	20.0	19.9		ug/L		100	70 - 130	1	12
Hexachlorobutadiene	20.0	19.9		ug/L		100	70 - 138	0	16
Isopropylbenzene	20.0	20.0		ug/L		100	70 - 131	1	13
Methyl tert-butyl ether	20.0	17.6		ug/L		88	70 - 130	6	16
Methylene Chloride	20.0	20.7		ug/L		103	70 - 130	3	15
Naphthalene	20.0	19.1		ug/L		95	54 - 150	2	15
n-Butylbenzene	20.0	19.9		ug/L		100	68 - 137	0	14
N-Propylbenzene	20.0	21.4		ug/L		107	70 - 134	2	14
4-Isopropyltoluene	20.0	20.1		ug/L		101	66 - 130	1	13
sec-Butylbenzene	20.0	20.7		ug/L		104	70 - 135	2	14
Styrene	20.0	19.5		ug/L		97	70 - 130	0	12
tert-Butylbenzene	20.0	20.3		ug/L		101	70 - 130	1	14
Tetrachloroethene	20.0	20.0		ug/L		100	70 - 130	1	17
Toluene	20.0	20.7		ug/L		104	70 - 130	2	13
trans-1,2-Dichloroethene	20.0	20.3		ug/L		102	70 - 130	3	15
trans-1,3-Dichloropropene	20.0	18.7		ug/L		93	63 - 142	2	13
Trichloroethene	20.0	20.3		ug/L		102	70 - 130	1	14
Trichlorofluoromethane	20.0	19.5		ug/L		97	59 - 150	1	22
Vinyl chloride	20.0	26.0		ug/L		130	57 - 137	4	15
Xylenes, Total	40.0	39.5		ug/L		99	70 - 132	0	11

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCS 490-413981/10
Matrix: Water
Analysis Batch: 413981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	988		ug/L		99	66 - 134

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCS 490-413982/6
Matrix: Water
Analysis Batch: 413982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.1		ug/L		95	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-413982/6

Matrix: Water

Analysis Batch: 413982

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	17.8		ug/L		89	70 - 135
1,1,1,2-Tetrachloroethane	20.0	20.3		ug/L		102	69 - 131
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	70 - 130
1,1-Dichloroethane	20.0	19.4		ug/L		97	70 - 130
1,1-Dichloroethene	20.0	20.2		ug/L		101	70 - 132
1,1-Dichloropropene	20.0	19.8		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	20.0	19.1		ug/L		96	46 - 150
1,2,3-Trichloropropane	20.0	17.5		ug/L		87	70 - 131
1,2,4-Trichlorobenzene	20.0	19.0		ug/L		95	58 - 147
1,2,4-Trimethylbenzene	20.0	19.9		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	18.9		ug/L		94	45 - 138
1,2-Dibromoethane (EDB)	20.0	18.9		ug/L		95	70 - 130
1,2-Dichlorobenzene	20.0	19.3		ug/L		96	70 - 130
1,2-Dichloroethane	20.0	17.2		ug/L		86	70 - 130
1,2-Dichloropropane	20.0	20.6		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	20.0	20.0		ug/L		100	70 - 130
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	70 - 130
1,3-Dichloropropane	20.0	19.5		ug/L		97	70 - 130
1,4-Dichlorobenzene	20.0	18.8		ug/L		94	70 - 130
2,2-Dichloropropane	20.0	18.7		ug/L		93	60 - 143
2-Butanone (MEK)	100	93.3		ug/L		93	55 - 143
2-Chlorotoluene	20.0	20.0		ug/L		100	70 - 130
2-Hexanone	100	98.0		ug/L		98	54 - 142
4-Chlorotoluene	20.0	19.6		ug/L		98	70 - 130
4-Methyl-2-pentanone (MIBK)	100	99.9		ug/L		100	60 - 137
Acetone	100	100		ug/L		100	39 - 150
Benzene	20.0	20.2		ug/L		101	70 - 130
Bromobenzene	20.0	20.2		ug/L		101	70 - 130
Chlorobromomethane	20.0	18.1		ug/L		90	70 - 130
Dichlorobromomethane	20.0	19.0		ug/L		95	70 - 130
Bromoform	20.0	20.3		ug/L		101	70 - 137
Bromomethane	20.0	23.6		ug/L		118	53 - 150
Carbon disulfide	20.0	20.3		ug/L		101	64 - 135
Carbon tetrachloride	20.0	18.7		ug/L		93	70 - 147
Chlorobenzene	20.0	19.7		ug/L		99	70 - 130
Chlorodibromomethane	20.0	20.3		ug/L		102	70 - 133
Chloroethane	20.0	23.0		ug/L		115	60 - 138
Chloroform	20.0	18.5		ug/L		93	70 - 130
Chloromethane	20.0	22.7		ug/L		113	33 - 150
cis-1,2-Dichloroethene	20.0	19.7		ug/L		98	70 - 130
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	70 - 133
Dibromomethane	20.0	19.1		ug/L		96	70 - 130
Dichlorodifluoromethane	20.0	27.1		ug/L		135	48 - 150
Ethylbenzene	20.0	19.9		ug/L		100	70 - 130
Hexachlorobutadiene	20.0	19.8		ug/L		99	70 - 138
Isopropylbenzene	20.0	19.7		ug/L		99	70 - 131
Methyl tert-butyl ether	20.0	17.8		ug/L		89	70 - 130
Methylene Chloride	20.0	19.9		ug/L		100	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-413982/6
Matrix: Water
Analysis Batch: 413982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	20.0	19.7		ug/L		98	54 - 150
n-Butylbenzene	20.0	19.3		ug/L		97	68 - 137
N-Propylbenzene	20.0	20.7		ug/L		103	70 - 134
4-Isopropyltoluene	20.0	19.8		ug/L		99	66 - 130
sec-Butylbenzene	20.0	20.0		ug/L		100	70 - 135
Styrene	20.0	19.6		ug/L		98	70 - 130
tert-Butylbenzene	20.0	19.8		ug/L		99	70 - 130
Tetrachloroethene	20.0	19.8		ug/L		99	70 - 130
Toluene	20.0	20.2		ug/L		101	70 - 130
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	70 - 130
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	63 - 142
Trichloroethene	20.0	19.1		ug/L		96	70 - 130
Trichlorofluoromethane	20.0	19.5		ug/L		98	59 - 150
Vinyl chloride	20.0	24.4		ug/L		122	57 - 137
Xylenes, Total	40.0	39.1		ug/L		98	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: LCSD 490-413982/7
Matrix: Water
Analysis Batch: 413982

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	18.9		ug/L		94	70 - 130	1	13
1,1,1-Trichloroethane	20.0	17.2		ug/L		86	70 - 135	4	15
1,1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		100	69 - 131	2	15
1,1,2-Trichloroethane	20.0	18.8		ug/L		94	70 - 130	3	13
1,1-Dichloroethane	20.0	18.7		ug/L		93	70 - 130	4	17
1,1-Dichloroethene	20.0	19.5		ug/L		98	70 - 132	4	20
1,1-Dichloropropene	20.0	18.8		ug/L		94	70 - 130	5	16
1,2,3-Trichlorobenzene	20.0	18.7		ug/L		94	46 - 150	2	16
1,2,3-Trichloropropane	20.0	17.0		ug/L		85	70 - 131	3	14
1,2,4-Trichlorobenzene	20.0	18.8		ug/L		94	58 - 147	1	15
1,2,4-Trimethylbenzene	20.0	20.2		ug/L		101	70 - 130	2	13
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		92	45 - 138	2	19
1,2-Dibromoethane (EDB)	20.0	18.2		ug/L		91	70 - 130	4	13
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	70 - 130	1	12
1,2-Dichloroethane	20.0	16.4		ug/L		82	70 - 130	5	13
1,2-Dichloropropane	20.0	19.3		ug/L		97	70 - 130	6	15
1,3,5-Trimethylbenzene	20.0	20.2		ug/L		101	70 - 130	1	14
1,3-Dichlorobenzene	20.0	19.3		ug/L		96	70 - 130	1	13
1,3-Dichloropropane	20.0	18.8		ug/L		94	70 - 130	4	12
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	70 - 130	1	12
2,2-Dichloropropane	20.0	17.8		ug/L		89	60 - 143	5	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-413982/7
Matrix: Water
Analysis Batch: 413982

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	100	86.6		ug/L		87	55 - 143	7	19
2-Chlorotoluene	20.0	20.4		ug/L		102	70 - 130	2	15
2-Hexanone	100	91.5		ug/L		91	54 - 142	7	17
4-Chlorotoluene	20.0	19.8		ug/L		99	70 - 130	1	15
4-Methyl-2-pentanone (MIBK)	100	93.0		ug/L		93	60 - 137	7	21
Acetone	100	87.6		ug/L		88	39 - 150	13	23
Benzene	20.0	19.4		ug/L		97	70 - 130	4	12
Bromobenzene	20.0	20.2		ug/L		101	70 - 130	0	16
Chlorobromomethane	20.0	16.5		ug/L		82	70 - 130	9	16
Dichlorobromomethane	20.0	18.2		ug/L		91	70 - 130	4	14
Bromoform	20.0	19.3		ug/L		96	70 - 137	5	14
Bromomethane	20.0	21.1		ug/L		106	53 - 150	11	19
Carbon disulfide	20.0	19.5		ug/L		98	64 - 135	4	16
Carbon tetrachloride	20.0	17.9		ug/L		90	70 - 147	4	16
Chlorobenzene	20.0	19.3		ug/L		97	70 - 130	2	12
Chlorodibromomethane	20.0	19.9		ug/L		99	70 - 133	2	13
Chloroethane	20.0	21.7		ug/L		109	60 - 138	6	15
Chloroform	20.0	17.8		ug/L		89	70 - 130	4	14
Chloromethane	20.0	21.6		ug/L		108	33 - 150	5	20
cis-1,2-Dichloroethene	20.0	18.8		ug/L		94	70 - 130	4	15
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	70 - 133	2	15
Dibromomethane	20.0	17.3		ug/L		86	70 - 130	10	14
Dichlorodifluoromethane	20.0	25.7		ug/L		129	48 - 150	5	16
Ethylbenzene	20.0	19.2		ug/L		96	70 - 130	3	12
Hexachlorobutadiene	20.0	20.1		ug/L		100	70 - 138	2	16
Isopropylbenzene	20.0	19.6		ug/L		98	70 - 131	1	13
Methyl tert-butyl ether	20.0	17.0		ug/L		85	70 - 130	5	16
Methylene Chloride	20.0	19.2		ug/L		96	70 - 130	4	15
Naphthalene	20.0	18.8		ug/L		94	54 - 150	4	15
n-Butylbenzene	20.0	19.3		ug/L		97	68 - 137	0	14
N-Propylbenzene	20.0	21.0		ug/L		105	70 - 134	1	14
4-Isopropyltoluene	20.0	20.2		ug/L		101	66 - 130	2	13
sec-Butylbenzene	20.0	20.1		ug/L		101	70 - 135	1	14
Styrene	20.0	19.0		ug/L		95	70 - 130	3	12
tert-Butylbenzene	20.0	20.0		ug/L		100	70 - 130	1	14
Tetrachloroethene	20.0	19.5		ug/L		98	70 - 130	2	17
Toluene	20.0	19.8		ug/L		99	70 - 130	2	13
trans-1,2-Dichloroethene	20.0	18.7		ug/L		94	70 - 130	7	15
trans-1,3-Dichloropropene	20.0	18.0		ug/L		90	63 - 142	5	13
Trichloroethene	20.0	19.2		ug/L		96	70 - 130	0	14
Trichlorofluoromethane	20.0	18.4		ug/L		92	59 - 150	6	22
Vinyl chloride	20.0	23.0		ug/L		115	57 - 137	6	15
Xylenes, Total	40.0	38.3		ug/L		96	70 - 132	2	11

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-413982/7
Matrix: Water
Analysis Batch: 413982

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCS	LCS	Limits
%Recovery	Qualifier		
Toluene-d8 (Surr)	104		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-218674/4
Matrix: Water
Analysis Batch: 218674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfate	ND		1.0		mg/L			03/02/17 18:36	1

Lab Sample ID: LCS 720-218674/5
Matrix: Water
Analysis Batch: 218674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				Limits
Sulfate	10.0	9.83		mg/L		98	90 - 110

Lab Sample ID: 720-78006-2 MS
Matrix: Water
Analysis Batch: 218674

Client Sample ID: MW-16
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Sulfate	9.5		10.0	18.4		mg/L		89	80 - 120

Lab Sample ID: 720-78006-2 MSD
Matrix: Water
Analysis Batch: 218674

Client Sample ID: MW-16
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Sulfate	9.5		10.0	17.7		mg/L		82	80 - 120	4	20

Lab Sample ID: MB 720-218675/4
Matrix: Water
Analysis Batch: 218675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrite as NO2	ND		1.0		mg/L			03/02/17 18:36	1
Nitrate as NO3	ND		1.0		mg/L			03/02/17 18:36	1

Lab Sample ID: LCS 720-218675/5
Matrix: Water
Analysis Batch: 218675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				Limits
Nitrite as NO2	10.0	10.8		mg/L		108	90 - 110
Nitrate as NO3	10.0	9.29		mg/L		93	90 - 110

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 720-78006-2 MS
Matrix: Water
Analysis Batch: 218675

Client Sample ID: MW-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	ND		100	115		mg/L		115	80 - 120
Nitrate as NO3	80		100	175		mg/L		95	80 - 120

Lab Sample ID: 720-78006-2 MSD
Matrix: Water
Analysis Batch: 218675

Client Sample ID: MW-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as NO2	ND		100	109		mg/L		109	80 - 120	5	20
Nitrate as NO3	80		100	175		mg/L		95	80 - 120	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-218938/1-A
Matrix: Water
Analysis Batch: 219022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218938

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		03/08/17 11:35	03/09/17 09:42	1

Lab Sample ID: LCS 720-218938/2-A
Matrix: Water
Analysis Batch: 219022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.0		mg/L		100	85 - 115

Lab Sample ID: 720-78006-4 MS
Matrix: Water
Analysis Batch: 219022

Client Sample ID: MW-13
Prep Type: Total/NA
Prep Batch: 218938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	11		10.0	19.7		mg/L		91	70 - 130

Lab Sample ID: 720-78006-4 MSD
Matrix: Water
Analysis Batch: 219022

Client Sample ID: MW-13
Prep Type: Total/NA
Prep Batch: 218938

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	11		10.0	19.6		mg/L		91	70 - 130	0	20

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 720-218821/10
Matrix: Water
Analysis Batch: 218821

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10		mg/L			03/06/17 15:15	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Lab Sample ID: LCS 720-218821/11
Matrix: Water
Analysis Batch: 218821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	1.00	1.05		mg/L		105	85 - 115

Lab Sample ID: 720-78006-1 MS
Matrix: Water
Analysis Batch: 218821

Client Sample ID: MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	0.40	HF	1.00	1.38		mg/L		98	75 - 125

Lab Sample ID: 720-78006-1 MSD
Matrix: Water
Analysis Batch: 218821

Client Sample ID: MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	0.40	HF	1.00	1.40		mg/L		100	75 - 125	1	20

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-374640/1-A
Matrix: Water
Analysis Batch: 374652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		03/06/17 18:00	03/06/17 20:53	1

Lab Sample ID: LCS 500-374640/2-A
Matrix: Water
Analysis Batch: 374652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.50	2.46		mg/L		98	80 - 120

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 720-218876/1-A
Matrix: Water
Analysis Batch: 218731

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	ND		0.020		mg/L			03/03/17 12:03	1

Lab Sample ID: LCS 720-218876/2-A
Matrix: Water
Analysis Batch: 218731

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	0.200	0.199		mg/L		99	90 - 110

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method: SM 4500 P E - Orthophosphate (Continued)

Lab Sample ID: 720-78006-2 MS
Matrix: Water
Analysis Batch: 218731

Client Sample ID: MW-16
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	0.023		0.200	0.227		mg/L		102	75 - 125

Lab Sample ID: 720-78006-2 MSD
Matrix: Water
Analysis Batch: 218731

Client Sample ID: MW-16
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate as P	0.023		0.200	0.228		mg/L		102	75 - 125	0	20

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

GC/MS VOA

Analysis Batch: 413303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-1	MW-15	Total/NA	Water	8260B	
720-78006-2	MW-16	Total/NA	Water	8260B	
720-78006-3	MW-10	Total/NA	Water	8260B	
720-78006-4	MW-13	Total/NA	Water	8260B	
MB 490-413303/9	Method Blank	Total/NA	Water	8260B	
LCS 490-413303/7	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 413304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-1	MW-15	Total/NA	Water	8260B	
720-78006-2	MW-16	Total/NA	Water	8260B	
720-78006-3	MW-10	Total/NA	Water	8260B	
720-78006-4	MW-13	Total/NA	Water	8260B	
720-78006-5	MW-14	Total/NA	Water	8260B	
MB 490-413304/9	Method Blank	Total/NA	Water	8260B	
LCS 490-413304/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-413304/4	Lab Control Sample Dup	Total/NA	Water	8260B	
720-78006-3 MS	MW-10	Total/NA	Water	8260B	
720-78006-3 MSD	MW-10	Total/NA	Water	8260B	

Analysis Batch: 413568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-5	MW-14	Total/NA	Water	8260B	
MB 490-413568/9	Method Blank	Total/NA	Water	8260B	
LCS 490-413568/7	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 413569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-5	MW-14	Total/NA	Water	8260B	
MB 490-413569/9	Method Blank	Total/NA	Water	8260B	
LCS 490-413569/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-413569/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 413981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-6	MW-6R	Total/NA	Water	8260B	
LCS 490-413981/10	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 413982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-6	MW-6R	Total/NA	Water	8260B	
LCS 490-413982/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-413982/7	Lab Control Sample Dup	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 218674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-1	MW-15	Total/NA	Water	300.0	
720-78006-2	MW-16	Total/NA	Water	300.0	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

HPLC/IC (Continued)

Analysis Batch: 218674 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-3	MW-10	Total/NA	Water	300.0	
720-78006-4	MW-13	Total/NA	Water	300.0	
720-78006-5	MW-14	Total/NA	Water	300.0	
720-78006-6	MW-6R	Total/NA	Water	300.0	
MB 720-218674/4	Method Blank	Total/NA	Water	300.0	
LCS 720-218674/5	Lab Control Sample	Total/NA	Water	300.0	
720-78006-2 MS	MW-16	Total/NA	Water	300.0	
720-78006-2 MSD	MW-16	Total/NA	Water	300.0	

Analysis Batch: 218675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-1	MW-15	Total/NA	Water	300.0	
720-78006-2	MW-16	Total/NA	Water	300.0	
720-78006-3	MW-10	Total/NA	Water	300.0	
720-78006-4	MW-13	Total/NA	Water	300.0	
720-78006-5	MW-14	Total/NA	Water	300.0	
720-78006-6	MW-6R	Total/NA	Water	300.0	
MB 720-218675/4	Method Blank	Total/NA	Water	300.0	
LCS 720-218675/5	Lab Control Sample	Total/NA	Water	300.0	
720-78006-2 MS	MW-16	Total/NA	Water	300.0	
720-78006-2 MSD	MW-16	Total/NA	Water	300.0	

Metals

Prep Batch: 218938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-1	MW-15	Total/NA	Water	200.7	
720-78006-2	MW-16	Total/NA	Water	200.7	
720-78006-3	MW-10	Total/NA	Water	200.7	
720-78006-4	MW-13	Total/NA	Water	200.7	
720-78006-5	MW-14	Total/NA	Water	200.7	
720-78006-6	MW-6R	Total/NA	Water	200.7	
MB 720-218938/1-A	Method Blank	Total/NA	Water	200.7	
LCS 720-218938/2-A	Lab Control Sample	Total/NA	Water	200.7	
720-78006-4 MS	MW-13	Total/NA	Water	200.7	
720-78006-4 MSD	MW-13	Total/NA	Water	200.7	

Analysis Batch: 219022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-1	MW-15	Total/NA	Water	200.7 Rev 4.4	218938
720-78006-2	MW-16	Total/NA	Water	200.7 Rev 4.4	218938
720-78006-3	MW-10	Total/NA	Water	200.7 Rev 4.4	218938
720-78006-4	MW-13	Total/NA	Water	200.7 Rev 4.4	218938
720-78006-5	MW-14	Total/NA	Water	200.7 Rev 4.4	218938
720-78006-6	MW-6R	Total/NA	Water	200.7 Rev 4.4	218938
MB 720-218938/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	218938
LCS 720-218938/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	218938
720-78006-4 MS	MW-13	Total/NA	Water	200.7 Rev 4.4	218938
720-78006-4 MSD	MW-13	Total/NA	Water	200.7 Rev 4.4	218938

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

General Chemistry

Analysis Batch: 218731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-1	MW-15	Dissolved	Water	SM 4500 P E	218876
720-78006-2	MW-16	Dissolved	Water	SM 4500 P E	218876
720-78006-3	MW-10	Dissolved	Water	SM 4500 P E	218876
720-78006-4	MW-13	Dissolved	Water	SM 4500 P E	218876
720-78006-5	MW-14	Dissolved	Water	SM 4500 P E	218876
720-78006-6	MW-6R	Dissolved	Water	SM 4500 P E	218876
MB 720-218876/1-A	Method Blank	Dissolved	Water	SM 4500 P E	218876
LCS 720-218876/2-A	Lab Control Sample	Dissolved	Water	SM 4500 P E	218876
720-78006-2 MS	MW-16	Dissolved	Water	SM 4500 P E	218876
720-78006-2 MSD	MW-16	Dissolved	Water	SM 4500 P E	218876

Analysis Batch: 218821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-1	MW-15	Total/NA	Water	SM 3500 Fe B	
720-78006-2	MW-16	Total/NA	Water	SM 3500 Fe B	
720-78006-3	MW-10	Total/NA	Water	SM 3500 Fe B	
720-78006-4	MW-13	Total/NA	Water	SM 3500 Fe B	
720-78006-5	MW-14	Total/NA	Water	SM 3500 Fe B	
720-78006-6	MW-6R	Total/NA	Water	SM 3500 Fe B	
MB 720-218821/10	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 720-218821/11	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	
720-78006-1 MS	MW-15	Total/NA	Water	SM 3500 Fe B	
720-78006-1 MSD	MW-15	Total/NA	Water	SM 3500 Fe B	

Filtration Batch: 218876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-1	MW-15	Dissolved	Water	FILTRATION	
720-78006-2	MW-16	Dissolved	Water	FILTRATION	
720-78006-3	MW-10	Dissolved	Water	FILTRATION	
720-78006-4	MW-13	Dissolved	Water	FILTRATION	
720-78006-5	MW-14	Dissolved	Water	FILTRATION	
720-78006-6	MW-6R	Dissolved	Water	FILTRATION	
MB 720-218876/1-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 720-218876/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
720-78006-2 MS	MW-16	Dissolved	Water	FILTRATION	
720-78006-2 MSD	MW-16	Dissolved	Water	FILTRATION	

Prep Batch: 374640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-1	MW-15	Total/NA	Water	SM 4500 NH3 B	
720-78006-2	MW-16	Total/NA	Water	SM 4500 NH3 B	
720-78006-3	MW-10	Total/NA	Water	SM 4500 NH3 B	
720-78006-4	MW-13	Total/NA	Water	SM 4500 NH3 B	
720-78006-5	MW-14	Total/NA	Water	SM 4500 NH3 B	
720-78006-6	MW-6R	Total/NA	Water	SM 4500 NH3 B	
MB 500-374640/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 500-374640/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 374652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-1	MW-15	Total/NA	Water	SM 4500 NH3 G	374640

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

General Chemistry (Continued)

Analysis Batch: 374652 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78006-2	MW-16	Total/NA	Water	SM 4500 NH3 G	374640
720-78006-3	MW-10	Total/NA	Water	SM 4500 NH3 G	374640
720-78006-4	MW-13	Total/NA	Water	SM 4500 NH3 G	374640
720-78006-5	MW-14	Total/NA	Water	SM 4500 NH3 G	374640
720-78006-6	MW-6R	Total/NA	Water	SM 4500 NH3 G	374640
MB 500-374640/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	374640
LCS 500-374640/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	374640

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-15

Date Collected: 03/02/17 10:35

Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	413303	03/09/17 15:02	NC	TAL NSH
Total/NA	Analysis	8260B		1	413304	03/09/17 15:02	NC	TAL NSH
Total/NA	Analysis	300.0		1	218675	03/03/17 01:44	MRS	TAL PLS
Total/NA	Analysis	300.0		10	218674	03/03/17 02:01	MRS	TAL PLS
Total/NA	Prep	200.7			218938	03/08/17 11:35	BRB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	219022	03/09/17 11:00	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	218821	03/06/17 15:15	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			374640	03/06/17 18:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	374652	03/06/17 21:50	HMW	TAL CHI
Dissolved	Analysis	SM 4500 P E		1	218731	03/03/17 12:03	ECB	TAL PLS
Dissolved	Filtration	FILTRATION			218876	03/03/17 14:41	ECB	TAL PLS

Client Sample ID: MW-16

Date Collected: 03/02/17 12:00

Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	413303	03/09/17 15:31	NC	TAL NSH
Total/NA	Analysis	8260B		1	413304	03/09/17 15:31	NC	TAL NSH
Total/NA	Analysis	300.0		1	218674	03/03/17 02:18	MRS	TAL PLS
Total/NA	Analysis	300.0		10	218675	03/03/17 03:10	MRS	TAL PLS
Total/NA	Prep	200.7			218938	03/08/17 11:35	BRB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	219022	03/09/17 11:05	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	218821	03/06/17 15:15	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			374640	03/06/17 18:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	374652	03/06/17 21:53	HMW	TAL CHI
Dissolved	Analysis	SM 4500 P E		1	218731	03/03/17 12:03	ECB	TAL PLS
Dissolved	Filtration	FILTRATION			218876	03/03/17 14:41	ECB	TAL PLS

Client Sample ID: MW-10

Date Collected: 03/02/17 13:10

Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	413303	03/09/17 14:34	NC	TAL NSH
Total/NA	Analysis	8260B		1	413304	03/09/17 14:34	NC	TAL NSH
Total/NA	Analysis	300.0		1	218674	03/03/17 04:01	MRS	TAL PLS
Total/NA	Analysis	300.0		1	218675	03/03/17 04:01	MRS	TAL PLS
Total/NA	Prep	200.7			218938	03/08/17 11:35	BRB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	219022	03/09/17 11:11	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	218821	03/06/17 15:15	ECB	TAL PLS

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-10

Date Collected: 03/02/17 13:10

Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 NH3 B			374640	03/06/17 18:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	374652	03/06/17 22:01	HMW	TAL CHI
Dissolved	Analysis	SM 4500 P E		1	218731	03/03/17 12:03	ECB	TAL PLS
Dissolved	Filtration	FILTRATION			218876	03/03/17 14:41	ECB	TAL PLS

Client Sample ID: MW-13

Date Collected: 03/02/17 14:45

Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	413303	03/09/17 15:59	NC	TAL NSH
Total/NA	Analysis	8260B		1	413304	03/09/17 15:59	NC	TAL NSH
Total/NA	Analysis	300.0		10	218674	03/03/17 05:27	MRS	TAL PLS
Total/NA	Analysis	300.0		10	218675	03/03/17 05:27	MRS	TAL PLS
Total/NA	Prep	200.7			218938	03/08/17 11:35	BRB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	219022	03/09/17 11:26	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	218821	03/06/17 15:15	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			374640	03/06/17 18:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	374652	03/06/17 22:04	HMW	TAL CHI
Dissolved	Analysis	SM 4500 P E		1	218731	03/03/17 12:03	ECB	TAL PLS
Dissolved	Filtration	FILTRATION			218876	03/03/17 14:41	ECB	TAL PLS

Client Sample ID: MW-14

Date Collected: 03/02/17 14:12

Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	413304	03/09/17 16:27	NC	TAL NSH
Total/NA	Analysis	8260B		10	413568	03/10/17 18:03	MJH	TAL NSH
Total/NA	Analysis	8260B		10	413569	03/10/17 18:03	AK1	TAL NSH
Total/NA	Analysis	300.0		1	218674	03/03/17 05:44	MRS	TAL PLS
Total/NA	Analysis	300.0		1	218675	03/03/17 05:44	MRS	TAL PLS
Total/NA	Prep	200.7			218938	03/08/17 11:35	BRB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	219022	03/09/17 11:31	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	218821	03/06/17 15:15	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			374640	03/06/17 18:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	374652	03/06/17 22:07	HMW	TAL CHI
Dissolved	Analysis	SM 4500 P E		1	218731	03/03/17 12:03	ECB	TAL PLS
Dissolved	Filtration	FILTRATION			218876	03/03/17 14:41	ECB	TAL PLS

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Client Sample ID: MW-6R

Date Collected: 03/02/17 16:00

Date Received: 03/02/17 17:35

Lab Sample ID: 720-78006-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	413981	03/13/17 16:44	JRV	TAL NSH
Total/NA	Analysis	8260B		1	413982	03/13/17 16:44	JRV	TAL NSH
Total/NA	Analysis	300.0		10	218674	03/03/17 06:35	MRS	TAL PLS
Total/NA	Analysis	300.0		10	218675	03/03/17 06:35	MRS	TAL PLS
Total/NA	Prep	200.7			218938	03/08/17 11:35	BRB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	219022	03/09/17 11:47	BKR	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	218821	03/06/17 15:15	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			374640	03/06/17 18:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		2	374652	03/06/17 22:10	HMW	TAL CHI
Dissolved	Analysis	SM 4500 P E		10	218731	03/03/17 12:03	ECB	TAL PLS
Dissolved	Filtration	FILTRATION			218876	03/03/17 14:41	ECB	TAL PLS

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Laboratory: TestAmerica Pleasanton

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-18

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2903	04-30-18
Georgia	State Program	4	N/A	04-30-17 *
Georgia	State Program	4	939	04-30-17 *
Hawaii	State Program	9	N/A	04-30-17 *
Illinois	NELAP	5	100201	04-30-17 *
Indiana	State Program	5	C-IL-02	04-30-17 *
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	10-31-17
Kentucky (UST)	State Program	4	66	04-30-17 *
Mississippi	State Program	4	N/A	04-30-17 *
New York	NELAP	2	12019	04-01-17 *
North Carolina (WW/SW)	State Program	4	291	12-31-17
North Dakota	State Program	8	R-194	04-30-17 *
Oklahoma	State Program	6	8908	08-31-17
South Carolina	State Program	4	77001	06-30-17
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-17
Wyoming	State Program	8	8TMS-Q	04-30-17 *

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	07-24-17
Arizona	State Program	9	AZ0473	05-05-17
Arkansas DEQ	State Program	6	88-0737	04-25-17
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-17
Georgia	State Program	4	N/A	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-17
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-17
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-17
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-17
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Pleasanton

Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Laboratory: TestAmerica Nashville (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-17
New York	NELAP	2	11342	03-31-17
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-17
Ohio VAP	State Program	5	CL0033	07-10-17
Oklahoma	State Program	6	9412	08-31-17
Oregon	NELAP	10	TN200001	04-27-17
Pennsylvania	NELAP	3	68-00585	06-30-17
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-18-17 *
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-17 *
Texas	NELAP	6	T104704077	08-31-17
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17
Virginia	NELAP	3	460152	06-14-17
Washington	State Program	10	C789	07-19-17
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-17
Wyoming (UST)	A2LA	8	453.07	12-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Pleasanton

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL PLS
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PLS
SM 3500 Fe B	Iron, Ferrous	SM	TAL PLS
SM 4500 NH3 G	Ammonia	SM	TAL CHI
SM 4500 P E	Orthophosphate	SM	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78006-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-78006-1	MW-15	Water	03/02/17 10:35	03/02/17 17:35
720-78006-2	MW-16	Water	03/02/17 12:00	03/02/17 17:35
720-78006-3	MW-10	Water	03/02/17 13:10	03/02/17 17:35
720-78006-4	MW-13	Water	03/02/17 14:45	03/02/17 17:35
720-78006-5	MW-14	Water	03/02/17 14:12	03/02/17 17:35
720-78006-6	MW-6R	Water	03/02/17 16:00	03/02/17 17:35

- 1
- 2
- 3
- 4
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- 8
- 9
- 10
- 11
- 12
- 13
- 14

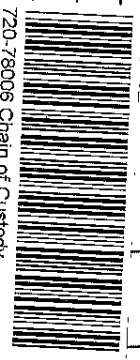
Pleasanton, CA 94566-4756
 phone 925.484.1919 fax 925.600.3002
 Regulatory Program: DW NPDES RCRA Other:

Client Contact: Nilayo & Moore
 1956 Webster Street, #400
 Oakland/CA/94612
 Phone: 510-343-3000
 Project Name: Nilayo and Moore, Co. W
 Project Name: 12th & 2nd Street Stockpiles Churn
 Site: P O # 46224644 401 891e 004

Project Manager: Kristen Peterson
 Tel/fax: 510.343.3000
 Analysis Turnaround Time: 7 WORKING DAYS
 TAT if different from Below: 9 days

Lab Contact: Paloma Duong
 Date: 3/21/17
 Carrier: 0
 Filtered Sample (Y/N)
 Perform MS / MSD (Y/N)
 Lead; EPA Method 6010C
 CAM 17 Metals; EPA Method 6010C
 TPHg; EPA Method 8021
 TPH d,mo; EPA Method 8015M
 TPHg + VOCs; EPA 8260
 Nitrogen, Ammonia; SM
 4500-NH3B
 Nitrate + Nitrite; EPA 3500-NO3
 Ferrous Iron; SM 3500-Fe
 Iron; EPA 200.7
 4500 PE Orthophosphate as P;
 300 ORG.PMS; MOD

Sample Identification	Sample Date	Sample Time	Sample Type (G-Comp, G-Grab)	Matrix	# of Cont.
MW-15	3.2.17	1035		W	
MW-12	3.2.17	1200		W	
MW-10	3.2.17	1310		W	
MW-13	3.2.17	1445		W	
MW-14	3.2.17	1412		W	
MW-12	3.2.17	1500		W	



Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments: Please composite samples COMP 1A, COMP 1B, COMP 1C and COMP 1D into one composite sample, COMP 1.

Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal by Lab Archive for Months

Custody Seal Intact: Yes No

Relinquished by: Asha T Company: N&M Date/Time: 3.2.17 1605 Received by: Asha T Company: N&M Date/Time: 3.2.17 1605

Relinquished by: Sherry C Company: N&M Date/Time: 3.2.17 1735 Received in Laboratory by: Corin Mueller Company: TestA Date/Time: 3-2-17 1735

Cooler Temp. (°C) Obs'd: 2.6°C Card: 119 Therm ID No.: 1606



720-78006 Chain of Custody

Cooler Received/Opened On 3/8/2017 @ 0935

Time Samples Removed From Cooler 1553 Time Samples Placed In Storage 1737 (2 Hour Window)

1. Tracking # 8828 (last 4 digits, FedEx) Courier: FedEx
IR Gun ID 160406069 pH Strip Lot NA Chlorine Strip Lot NA

2. Temperature of rep. sample or temp blank when opened: 5.9 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES NO...NA

6. Were custody papers inside cooler? YES NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [Signature]

7. Were custody seals on containers: YES NO and Intact YES NO...NA

Were these signed and dated correctly? YES NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO...NA

12. Did all container labels and tags agree with custody papers? YES NO...NA

13a. Were VOA vials received? YES NO...NA

b. Was there any observable headspace present in any VOA vial? YES NO...NA

14. Was there a Trip Blank in this cooler? YES NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO...NA

16. Was residual chlorine present? YES NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES NO...NA

18. Did you sign the custody papers in the appropriate place? YES NO...NA

19. Were correct containers used for the analysis requested? YES NO...NA

20. Was sufficient amount of sample sent in each container? YES NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO...# _____

TestAmerica Pleasanton

1220 Quarry Lane
 Pleasanton, CA 94566
 Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

720-78006

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)

Company: TestAmerica Laboratories, Inc
 Address: 2960 Foster Creighton Drive,
 City: Nashville
 State, Zip: TN, 37204
 Phone: 615-726-0177(Tel) 615-726-3404(Fax)
 Email:

Sampler: Duong, Paloma R
 Phone: paloma.duong@testamericainc.com
 E-Mail: paloma.duong@testamericainc.com
 State Program - California

Accreditations Required (See note):
 State Program - California

Job #: 720-78006-1

COC No: 720-32921.1
 Page: Page 1 of 1

Due Date Requested: 3/8/2017
 TAT Requested (days):

Analysis Requested

Project Name: Chun
 Project #: 72010606
 SSSOW#:

Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
8260B/5030B Gasoline Range Organics (GRO)	
8260B_LL/5030B Standard 8260 List	

- Preservation Codes:
- A - HCL
 - B - NaOH
 - C - Zn Acetate
 - D - Nitric Acid
 - E - NaHSO4
 - F - MeOH
 - G - Amchlor
 - H - Ascorbic Acid
 - I - Ice
 - J - DI Water
 - K - EDTA
 - L - EDA
 - M - Hexane
 - N - None
 - O - AsNaO2
 - P - Na2OAS
 - Q - Na2SO3
 - R - Na2S2O3
 - S - H2SO4
 - T - TSP Dodecanylrate
 - U - Acetone
 - V - MCAA
 - W - pH 4-5
 - Z - other (Specify)

Sample Identification - Client ID (Lab ID)

Sample ID	Sample Date	Sample Time	Sample Type (G=comp, W=Water, etc)	Matrix (Mineral, Organic, etc)	Preservation Code	Total Number of containers	Special Instructions/Note
MMW-15 (720-78006-1)	3/2/17	10:35	Pacific	Water		3	
MMW-16 (720-78006-2)	3/2/17	12:00	Pacific	Water		3	
MMW-10 (720-78006-3)	3/2/17	13:10	Pacific	Water		3	
MMW-13 (720-78006-4)	3/2/17	14:45	Pacific	Water		3	
MMW-14 (720-78006-5)	3/2/17	14:12	Pacific	Water		3	
MMW-6R (720-78006-6)	3/2/17	16:00	Pacific	Water		3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/method being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification

Uncertified
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Special Instructions/QC Requirements:

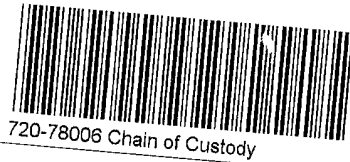
Empty Kit Relinquished by: Date: Method of Shipment: Archive For: Months

Relinquished by: Date/Time: Received by: Date/Time: Company: Method of Shipment: Archive For: Months

Relinquished by: Date/Time: Received by: Date/Time: Company: Method of Shipment: Archive For: Months

Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks: 5.9

COOLER RECEIPT FORM



Cooler Received/Opened On 3/11/2017 @0945

Time Samples Removed From Cooler 1245 Time Samples Placed In Storage 1303 (2 Hour Window)

1. Tracking # 9240 (last 4 digits, FedEx) Courier: FEDEX

IR Gun ID 97310166 pH Strip Lot NA Chlorine Strip Lot NA

2. Temperature of rep. sample or temp blank when opened: 2.4 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA
If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [Signature]

7. Were custody seals on containers: YES NO and Intact YES...NO...NA
Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES NO...NA

14. Was there a Trip Blank in this cooler? NO...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO #

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Chain of Custody Record

720-78006

TestAmerica

11111 FARMER BLVD. FARMINGTON, CT 06030

3/14/2017

Lab Contract Lab: **Lab Contract Lab** Phone: **3602** Lat: **W** Long: **Paloma R** State of Origin: **California**

Sampler: **Paloma Duong** E-Mail: **paloma.duong@testamericainc.com** Accreditations Required (See notes): **State Program - California**

Job #: **720-32921.1** Page: **1 of 1**

Job #: **720-78006-1** Page: **1 of 1**

Due Date Requested: **3/8/2017** TAT Requested (days): **7**

Analysis Requested: **8260B/5030B Gasoline Range Organics (GRO)**
8260B_LL/5030B Standard 8260 List

City: **Nashville** State Zip: **TN, 37204** PO #: **615-726-0177(Tel) 615-726-3404(Fax)**

Phone: **615-726-0177(Tel) 615-726-3404(Fax)** W/O #: **72010606**

Project Name: **Chun** Project #: **72010606** SSO/W#: **SSOW#:**

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (G=Comp, B=Trace, AA=)	Matrix (Inorganic, Sulfide, Oxidation, BT=Trace, AA=)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
MMW-15 (720-78006-1)	3/2/17	10:35	Pacific	Water	X	X	3	
MMW-16 (720-78006-2)	3/2/17	12:00	Pacific	Water	X	X	3	
MMW-10 (720-78006-3)	3/2/17	13:10	Pacific	Water	X	X	3	
MMW-13 (720-78006-4)	3/2/17	14:45	Pacific	Water	X	X	3	
MMW-14 (720-78006-5)	3/2/17	14:12	Pacific	Water	X	X	3	
MMW-6R (720-78006-6)	3/2/17	16:00	Pacific	Water	X	X	3	

Notes: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: **Unconfirmed**

Deliverable Requested: I, II, III, IV, Other (specify) **Primary Deliverable: Bulk: 2**

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client Disposal By Lab Archive For **Months**

Relinquished by: **[Signature]** Date/Time: **3/17/17 15:00** Company: **[Signature]**

Relinquished by: **[Signature]** Date/Time: **3/17/17 15:00** Company: **[Signature]**

Relinquished by: **[Signature]** Date/Time: **3/17/17 15:00** Company: **[Signature]**

Relinquished by: **[Signature]** Date/Time: **3/17/17 15:00** Company: **[Signature]**

Custody Seals Intact: **A Yes A No** Custody Seal No.: **2.14**

Coder Temperature(s) °C and Other Remarks: **2.14**

TestAmerica Pleasanton

1220 Quarry Lane
 Pleasanton, CA 94566
 Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Duong, Paloma R		Carrier Tracking No(s):		COC No: 720-32847.1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: paloma.duong@testamericainc.com		State of Origin: California		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Address: 2417 Bond Street, City: University Park State, Zip: IL, 60484		Accreditations Required (See note): State Program - California		Job #: 720-78006-1		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Project Name: Chun		Project #: 72010606		SSOW#:		Analysis Requested		Other:	
Due Date Requested: 3/8/2017		TAT Requested (days):		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	
PO #:		WO #:		SM4500NH3_G/SM4500NH3_B Ammonia					
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
								Preservation Code	
MW-15 (720-78006-1)		3/2/17		10:35 Pacific		Water		X	
MW-16 (720-78006-2)		3/2/17		12:00 Pacific		Water		X	
MW-10 (720-78006-3)		3/2/17		13:10 Pacific		Water		X	
MW-13 (720-78006-4)		3/2/17		14:45 Pacific		Water		X	
MW-14 (720-78006-5)		3/2/17		14:12 Pacific		Water		X	
MW-6R (720-78006-6)		3/2/17		16:00 Pacific		Water		X	
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 2		Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 3/3/17 1410		Company: A		Received by: <i>[Signature]</i>		Date/Time: 3/4/17 1030	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact:		Custody Seal No.:		Page 56 of 59		Cooler Temperature(s) °C and Other Remarks: 0.9		3/14/2017	
Δ Yes Δ No									

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-78006-1

Login Number: 78006
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-78006-1

Login Number: 78006
List Number: 2
Creator: Scott, Sherri L

List Source: TestAmerica Chicago
List Creation: 03/04/17 12:10 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-78006-1

Login Number: 78006
List Number: 3
Creator: Vest, Laura E

List Source: TestAmerica Nashville
List Creation: 03/08/17 04:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-78041-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
3/13/2017 2:30:15 PM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	12
QC Association Summary	19
Lab Chronicle	20
Certification Summary	21
Method Summary	22
Sample Summary	23
Chain of Custody	24
Receipt Checklists	27

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Job ID: 720-78041-1

Laboratory: TestAmerica Pleasanton

Narrative

**Job Narrative
720-78041-1**

Comments

No additional comments.

Receipt

The samples were received on 3/3/2017 2:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Client Sample ID: EFF

Lab Sample ID: 720-78041-1

No Detections.

Client Sample ID: GAC

Lab Sample ID: 720-78041-2

No Detections.

Client Sample ID: INF

Lab Sample ID: 720-78041-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	220		50		ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	1.3		0.50		ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	3.1		0.50		ug/L	1		8260B	Total/NA
Benzene	7.0		0.50		ug/L	1		8260B	Total/NA
Toluene	2.9		0.50		ug/L	1		8260B	Total/NA
Xylenes, Total	28		1.0		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Client Sample ID: EFF
Date Collected: 03/03/17 13:10
Date Received: 03/03/17 14:55

Lab Sample ID: 720-78041-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 02:21	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/10/17 02:21	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 02:21	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/10/17 02:21	1
1,1-Dichloroethane	ND		0.50		ug/L			03/10/17 02:21	1
GRO (C4-C12)	ND		50		ug/L			03/10/17 02:21	1
1,1-Dichloroethene	ND		0.50		ug/L			03/10/17 02:21	1
1,1-Dichloropropene	ND		0.50		ug/L			03/10/17 02:21	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/10/17 02:21	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/10/17 02:21	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/10/17 02:21	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/10/17 02:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/10/17 02:21	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/10/17 02:21	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/10/17 02:21	1
1,2-Dichloroethane	ND		0.50		ug/L			03/10/17 02:21	1
1,2-Dichloropropane	ND		0.50		ug/L			03/10/17 02:21	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/10/17 02:21	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/10/17 02:21	1
1,3-Dichloropropane	ND		0.50		ug/L			03/10/17 02:21	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/10/17 02:21	1
2,2-Dichloropropane	ND		0.50		ug/L			03/10/17 02:21	1
2-Butanone (MEK)	ND		50		ug/L			03/10/17 02:21	1
2-Chlorotoluene	ND		0.50		ug/L			03/10/17 02:21	1
2-Hexanone	ND		5.0		ug/L			03/10/17 02:21	1
4-Chlorotoluene	ND		0.50		ug/L			03/10/17 02:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/10/17 02:21	1
Acetone	ND		5.0		ug/L			03/10/17 02:21	1
Benzene	ND		0.50		ug/L			03/10/17 02:21	1
Bromobenzene	ND		0.50		ug/L			03/10/17 02:21	1
Chlorobromomethane	ND		0.50		ug/L			03/10/17 02:21	1
Dichlorobromomethane	ND		0.50		ug/L			03/10/17 02:21	1
Bromoform	ND		0.50		ug/L			03/10/17 02:21	1
Bromomethane	ND		0.50		ug/L			03/10/17 02:21	1
Carbon disulfide	ND		0.50		ug/L			03/10/17 02:21	1
Carbon tetrachloride	ND		0.50		ug/L			03/10/17 02:21	1
Chlorobenzene	ND		0.50		ug/L			03/10/17 02:21	1
Chlorodibromomethane	ND		0.50		ug/L			03/10/17 02:21	1
Chloroethane	ND		0.50		ug/L			03/10/17 02:21	1
Chloroform	ND		0.50		ug/L			03/10/17 02:21	1
Chloromethane	ND		0.50		ug/L			03/10/17 02:21	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 02:21	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			03/10/17 02:21	1
Dibromomethane	ND		0.50		ug/L			03/10/17 02:21	1
Dichlorodifluoromethane	ND	F1	0.50		ug/L			03/10/17 02:21	1
Ethylbenzene	ND		0.50		ug/L			03/10/17 02:21	1
Hexachlorobutadiene	ND		1.0		ug/L			03/10/17 02:21	1
Isopropylbenzene	ND		1.0		ug/L			03/10/17 02:21	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/10/17 02:21	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Client Sample ID: EFF
Date Collected: 03/03/17 13:10
Date Received: 03/03/17 14:55

Lab Sample ID: 720-78041-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			03/10/17 02:21	1
Naphthalene	ND		5.0		ug/L			03/10/17 02:21	1
n-Butylbenzene	ND		0.50		ug/L			03/10/17 02:21	1
N-Propylbenzene	ND		0.50		ug/L			03/10/17 02:21	1
4-Isopropyltoluene	ND		0.50		ug/L			03/10/17 02:21	1
sec-Butylbenzene	ND		0.50		ug/L			03/10/17 02:21	1
Styrene	ND		0.50		ug/L			03/10/17 02:21	1
tert-Butylbenzene	ND		0.50		ug/L			03/10/17 02:21	1
Tetrachloroethene	ND		0.50		ug/L			03/10/17 02:21	1
Toluene	ND		0.50		ug/L			03/10/17 02:21	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 02:21	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/10/17 02:21	1
Trichloroethene	ND		0.50		ug/L			03/10/17 02:21	1
Trichlorofluoromethane	ND		0.50		ug/L			03/10/17 02:21	1
Vinyl chloride	ND		0.50		ug/L			03/10/17 02:21	1
Xylenes, Total	ND		1.0		ug/L			03/10/17 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		03/10/17 02:21	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/10/17 02:21	1
Dibromofluoromethane (Surr)	99		70 - 130		03/10/17 02:21	1
Toluene-d8 (Surr)	101		70 - 130		03/10/17 02:21	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		03/10/17 02:21	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/10/17 02:21	1
Dibromofluoromethane (Surr)	99		70 - 130		03/10/17 02:21	1
Toluene-d8 (Surr)	101		70 - 130		03/10/17 02:21	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Client Sample ID: GAC

Date Collected: 03/03/17 13:12

Date Received: 03/03/17 14:55

Lab Sample ID: 720-78041-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 03:18	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/10/17 03:18	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 03:18	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/10/17 03:18	1
1,1-Dichloroethane	ND		0.50		ug/L			03/10/17 03:18	1
GRO (C4-C12)	ND		50		ug/L			03/10/17 03:18	1
1,1-Dichloroethene	ND		0.50		ug/L			03/10/17 03:18	1
1,1-Dichloropropene	ND		0.50		ug/L			03/10/17 03:18	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/10/17 03:18	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/10/17 03:18	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/10/17 03:18	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/10/17 03:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/10/17 03:18	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/10/17 03:18	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/10/17 03:18	1
1,2-Dichloroethane	ND		0.50		ug/L			03/10/17 03:18	1
1,2-Dichloropropane	ND		0.50		ug/L			03/10/17 03:18	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/10/17 03:18	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/10/17 03:18	1
1,3-Dichloropropane	ND		0.50		ug/L			03/10/17 03:18	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/10/17 03:18	1
2,2-Dichloropropane	ND		0.50		ug/L			03/10/17 03:18	1
2-Butanone (MEK)	ND		50		ug/L			03/10/17 03:18	1
2-Chlorotoluene	ND		0.50		ug/L			03/10/17 03:18	1
2-Hexanone	ND		5.0		ug/L			03/10/17 03:18	1
4-Chlorotoluene	ND		0.50		ug/L			03/10/17 03:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/10/17 03:18	1
Acetone	ND		5.0		ug/L			03/10/17 03:18	1
Benzene	ND		0.50		ug/L			03/10/17 03:18	1
Bromobenzene	ND		0.50		ug/L			03/10/17 03:18	1
Chlorobromomethane	ND		0.50		ug/L			03/10/17 03:18	1
Dichlorobromomethane	ND		0.50		ug/L			03/10/17 03:18	1
Bromoform	ND		0.50		ug/L			03/10/17 03:18	1
Bromomethane	ND		0.50		ug/L			03/10/17 03:18	1
Carbon disulfide	ND		0.50		ug/L			03/10/17 03:18	1
Carbon tetrachloride	ND		0.50		ug/L			03/10/17 03:18	1
Chlorobenzene	ND		0.50		ug/L			03/10/17 03:18	1
Chlorodibromomethane	ND		0.50		ug/L			03/10/17 03:18	1
Chloroethane	ND		0.50		ug/L			03/10/17 03:18	1
Chloroform	ND		0.50		ug/L			03/10/17 03:18	1
Chloromethane	ND		0.50		ug/L			03/10/17 03:18	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 03:18	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			03/10/17 03:18	1
Dibromomethane	ND		0.50		ug/L			03/10/17 03:18	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/10/17 03:18	1
Ethylbenzene	ND		0.50		ug/L			03/10/17 03:18	1
Hexachlorobutadiene	ND		1.0		ug/L			03/10/17 03:18	1
Isopropylbenzene	ND		1.0		ug/L			03/10/17 03:18	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/10/17 03:18	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Client Sample ID: GAC

Lab Sample ID: 720-78041-2

Date Collected: 03/03/17 13:12

Matrix: Water

Date Received: 03/03/17 14:55

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			03/10/17 03:18	1
Naphthalene	ND		5.0		ug/L			03/10/17 03:18	1
n-Butylbenzene	ND		0.50		ug/L			03/10/17 03:18	1
N-Propylbenzene	ND		0.50		ug/L			03/10/17 03:18	1
4-Isopropyltoluene	ND		0.50		ug/L			03/10/17 03:18	1
sec-Butylbenzene	ND		0.50		ug/L			03/10/17 03:18	1
Styrene	ND		0.50		ug/L			03/10/17 03:18	1
tert-Butylbenzene	ND		0.50		ug/L			03/10/17 03:18	1
Tetrachloroethene	ND		0.50		ug/L			03/10/17 03:18	1
Toluene	ND		0.50		ug/L			03/10/17 03:18	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 03:18	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/10/17 03:18	1
Trichloroethene	ND		0.50		ug/L			03/10/17 03:18	1
Trichlorofluoromethane	ND		0.50		ug/L			03/10/17 03:18	1
Vinyl chloride	ND		0.50		ug/L			03/10/17 03:18	1
Xylenes, Total	ND		1.0		ug/L			03/10/17 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		03/10/17 03:18	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/10/17 03:18	1
Dibromofluoromethane (Surr)	102		70 - 130		03/10/17 03:18	1
Toluene-d8 (Surr)	100		70 - 130		03/10/17 03:18	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		03/10/17 03:18	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/10/17 03:18	1
Dibromofluoromethane (Surr)	102		70 - 130		03/10/17 03:18	1
Toluene-d8 (Surr)	100		70 - 130		03/10/17 03:18	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Client Sample ID: INF

Date Collected: 03/03/17 13:15

Date Received: 03/03/17 14:55

Lab Sample ID: 720-78041-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 02:50	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/10/17 02:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 02:50	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/10/17 02:50	1
1,1-Dichloroethane	ND		0.50		ug/L			03/10/17 02:50	1
GRO (C4-C12)	220		50		ug/L			03/10/17 02:50	1
1,1-Dichloroethene	ND		0.50		ug/L			03/10/17 02:50	1
1,1-Dichloropropene	ND		0.50		ug/L			03/10/17 02:50	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/10/17 02:50	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/10/17 02:50	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/10/17 02:50	1
1,2,4-Trimethylbenzene	1.3		0.50		ug/L			03/10/17 02:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/10/17 02:50	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/10/17 02:50	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/10/17 02:50	1
1,2-Dichloroethane	ND		0.50		ug/L			03/10/17 02:50	1
1,2-Dichloropropane	ND		0.50		ug/L			03/10/17 02:50	1
1,3,5-Trimethylbenzene	3.1		0.50		ug/L			03/10/17 02:50	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/10/17 02:50	1
1,3-Dichloropropane	ND		0.50		ug/L			03/10/17 02:50	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/10/17 02:50	1
2,2-Dichloropropane	ND		0.50		ug/L			03/10/17 02:50	1
2-Butanone (MEK)	ND		50		ug/L			03/10/17 02:50	1
2-Chlorotoluene	ND		0.50		ug/L			03/10/17 02:50	1
2-Hexanone	ND		5.0		ug/L			03/10/17 02:50	1
4-Chlorotoluene	ND		0.50		ug/L			03/10/17 02:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/10/17 02:50	1
Acetone	ND		5.0		ug/L			03/10/17 02:50	1
Benzene	7.0		0.50		ug/L			03/10/17 02:50	1
Bromobenzene	ND		0.50		ug/L			03/10/17 02:50	1
Chlorobromomethane	ND		0.50		ug/L			03/10/17 02:50	1
Dichlorobromomethane	ND		0.50		ug/L			03/10/17 02:50	1
Bromoform	ND		0.50		ug/L			03/10/17 02:50	1
Bromomethane	ND		0.50		ug/L			03/10/17 02:50	1
Carbon disulfide	ND		0.50		ug/L			03/10/17 02:50	1
Carbon tetrachloride	ND		0.50		ug/L			03/10/17 02:50	1
Chlorobenzene	ND		0.50		ug/L			03/10/17 02:50	1
Chlorodibromomethane	ND		0.50		ug/L			03/10/17 02:50	1
Chloroethane	ND		0.50		ug/L			03/10/17 02:50	1
Chloroform	ND		0.50		ug/L			03/10/17 02:50	1
Chloromethane	ND		0.50		ug/L			03/10/17 02:50	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 02:50	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			03/10/17 02:50	1
Dibromomethane	ND		0.50		ug/L			03/10/17 02:50	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/10/17 02:50	1
Ethylbenzene	ND		0.50		ug/L			03/10/17 02:50	1
Hexachlorobutadiene	ND		1.0		ug/L			03/10/17 02:50	1
Isopropylbenzene	ND		1.0		ug/L			03/10/17 02:50	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/10/17 02:50	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Client Sample ID: INF

Lab Sample ID: 720-78041-3

Date Collected: 03/03/17 13:15

Matrix: Water

Date Received: 03/03/17 14:55

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			03/10/17 02:50	1
Naphthalene	ND		5.0		ug/L			03/10/17 02:50	1
n-Butylbenzene	ND		0.50		ug/L			03/10/17 02:50	1
N-Propylbenzene	ND		0.50		ug/L			03/10/17 02:50	1
4-Isopropyltoluene	ND		0.50		ug/L			03/10/17 02:50	1
sec-Butylbenzene	ND		0.50		ug/L			03/10/17 02:50	1
Styrene	ND		0.50		ug/L			03/10/17 02:50	1
tert-Butylbenzene	ND		0.50		ug/L			03/10/17 02:50	1
Tetrachloroethene	ND		0.50		ug/L			03/10/17 02:50	1
Toluene	2.9		0.50		ug/L			03/10/17 02:50	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 02:50	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/10/17 02:50	1
Trichloroethene	ND		0.50		ug/L			03/10/17 02:50	1
Trichlorofluoromethane	ND		0.50		ug/L			03/10/17 02:50	1
Vinyl chloride	ND		0.50		ug/L			03/10/17 02:50	1
Xylenes, Total	28		1.0		ug/L			03/10/17 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		03/10/17 02:50	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/10/17 02:50	1
Dibromofluoromethane (Surr)	102		70 - 130		03/10/17 02:50	1
Toluene-d8 (Surr)	101		70 - 130		03/10/17 02:50	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		03/10/17 02:50	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/10/17 02:50	1
Dibromofluoromethane (Surr)	102		70 - 130		03/10/17 02:50	1
Toluene-d8 (Surr)	101		70 - 130		03/10/17 02:50	1

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-413422/9

Matrix: Water

Analysis Batch: 413422

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			03/10/17 01:25	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		03/10/17 01:25	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/10/17 01:25	1
Dibromofluoromethane (Surr)	101		70 - 130		03/10/17 01:25	1
Toluene-d8 (Surr)	101		70 - 130		03/10/17 01:25	1

Lab Sample ID: LCS 490-413422/7

Matrix: Water

Analysis Batch: 413422

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	925		ug/L		93	66 - 134

Surrogate	%Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: MB 490-413423/9

Matrix: Water

Analysis Batch: 413423

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 01:25	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/10/17 01:25	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 01:25	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/10/17 01:25	1
1,1-Dichloroethane	ND		0.50		ug/L			03/10/17 01:25	1
1,1-Dichloroethene	ND		0.50		ug/L			03/10/17 01:25	1
1,1-Dichloropropene	ND		0.50		ug/L			03/10/17 01:25	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/10/17 01:25	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/10/17 01:25	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/10/17 01:25	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/10/17 01:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/10/17 01:25	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/10/17 01:25	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/10/17 01:25	1
1,2-Dichloroethane	ND		0.50		ug/L			03/10/17 01:25	1
1,2-Dichloropropane	ND		0.50		ug/L			03/10/17 01:25	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/10/17 01:25	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/10/17 01:25	1
1,3-Dichloropropane	ND		0.50		ug/L			03/10/17 01:25	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/10/17 01:25	1
2,2-Dichloropropane	ND		0.50		ug/L			03/10/17 01:25	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-413423/9
Matrix: Water
Analysis Batch: 413423

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		50		ug/L			03/10/17 01:25	1
2-Chlorotoluene	ND		0.50		ug/L			03/10/17 01:25	1
2-Hexanone	ND		5.0		ug/L			03/10/17 01:25	1
4-Chlorotoluene	ND		0.50		ug/L			03/10/17 01:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/10/17 01:25	1
Acetone	ND		5.0		ug/L			03/10/17 01:25	1
Benzene	ND		0.50		ug/L			03/10/17 01:25	1
Bromobenzene	ND		0.50		ug/L			03/10/17 01:25	1
Chlorobromomethane	ND		0.50		ug/L			03/10/17 01:25	1
Dichlorobromomethane	ND		0.50		ug/L			03/10/17 01:25	1
Bromoform	ND		0.50		ug/L			03/10/17 01:25	1
Bromomethane	ND		0.50		ug/L			03/10/17 01:25	1
Carbon disulfide	ND		0.50		ug/L			03/10/17 01:25	1
Carbon tetrachloride	ND		0.50		ug/L			03/10/17 01:25	1
Chlorobenzene	ND		0.50		ug/L			03/10/17 01:25	1
Chlorodibromomethane	ND		0.50		ug/L			03/10/17 01:25	1
Chloroethane	ND		0.50		ug/L			03/10/17 01:25	1
Chloroform	ND		0.50		ug/L			03/10/17 01:25	1
Chloromethane	ND		0.50		ug/L			03/10/17 01:25	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 01:25	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/10/17 01:25	1
Dibromomethane	ND		0.50		ug/L			03/10/17 01:25	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/10/17 01:25	1
Ethylbenzene	ND		0.50		ug/L			03/10/17 01:25	1
Hexachlorobutadiene	ND		1.0		ug/L			03/10/17 01:25	1
Isopropylbenzene	ND		1.0		ug/L			03/10/17 01:25	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/10/17 01:25	1
Methylene Chloride	ND		5.0		ug/L			03/10/17 01:25	1
Naphthalene	ND		5.0		ug/L			03/10/17 01:25	1
n-Butylbenzene	ND		0.50		ug/L			03/10/17 01:25	1
N-Propylbenzene	ND		0.50		ug/L			03/10/17 01:25	1
4-Isopropyltoluene	ND		0.50		ug/L			03/10/17 01:25	1
sec-Butylbenzene	ND		0.50		ug/L			03/10/17 01:25	1
Styrene	ND		0.50		ug/L			03/10/17 01:25	1
tert-Butylbenzene	ND		0.50		ug/L			03/10/17 01:25	1
Tetrachloroethene	ND		0.50		ug/L			03/10/17 01:25	1
Toluene	ND		0.50		ug/L			03/10/17 01:25	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 01:25	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/10/17 01:25	1
Trichloroethene	ND		0.50		ug/L			03/10/17 01:25	1
Trichlorofluoromethane	ND		0.50		ug/L			03/10/17 01:25	1
Vinyl chloride	ND		0.50		ug/L			03/10/17 01:25	1
Xylenes, Total	ND		1.0		ug/L			03/10/17 01:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		03/10/17 01:25	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/10/17 01:25	1
Dibromofluoromethane (Surr)	101		70 - 130		03/10/17 01:25	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-413423/9
Matrix: Water
Analysis Batch: 413423

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	%Recovery Qualifier	70 - 130		03/10/17 01:25	1

Lab Sample ID: LCS 490-413423/4
Matrix: Water
Analysis Batch: 413423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.2		ug/L		96	70 - 130
1,1,1-Trichloroethane	20.0	17.9		ug/L		90	70 - 135
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	69 - 131
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	70 - 130
1,1-Dichloroethane	20.0	19.9		ug/L		100	70 - 130
1,1-Dichloroethene	20.0	20.6		ug/L		103	70 - 132
1,1-Dichloropropene	20.0	19.8		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	20.0	19.2		ug/L		96	46 - 150
1,2,3-Trichloropropane	20.0	18.4		ug/L		92	70 - 131
1,2,4-Trichlorobenzene	20.0	19.0		ug/L		95	58 - 147
1,2,4-Trimethylbenzene	20.0	20.1		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	18.6		ug/L		93	45 - 138
1,2-Dibromoethane (EDB)	20.0	19.1		ug/L		95	70 - 130
1,2-Dichlorobenzene	20.0	19.7		ug/L		98	70 - 130
1,2-Dichloroethane	20.0	17.8		ug/L		89	70 - 130
1,2-Dichloropropane	20.0	20.6		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	20.0	20.3		ug/L		102	70 - 130
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	70 - 130
1,3-Dichloropropane	20.0	20.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	20.0	19.1		ug/L		96	70 - 130
2,2-Dichloropropane	20.0	17.1		ug/L		86	60 - 143
2-Butanone (MEK)	100	96.0		ug/L		96	55 - 143
2-Chlorotoluene	20.0	20.3		ug/L		101	70 - 130
2-Hexanone	100	102		ug/L		102	54 - 142
4-Chlorotoluene	20.0	20.2		ug/L		101	70 - 130
4-Methyl-2-pentanone (MIBK)	100	100		ug/L		100	60 - 137
Acetone	100	105		ug/L		105	39 - 150
Benzene	20.0	20.9		ug/L		105	70 - 130
Bromobenzene	20.0	20.5		ug/L		102	70 - 130
Chlorobromomethane	20.0	18.0		ug/L		90	70 - 130
Dichlorobromomethane	20.0	19.2		ug/L		96	70 - 130
Bromoform	20.0	19.7		ug/L		99	70 - 137
Bromomethane	20.0	20.4		ug/L		102	53 - 150
Carbon disulfide	20.0	20.5		ug/L		102	64 - 135
Carbon tetrachloride	20.0	18.9		ug/L		94	70 - 147
Chlorobenzene	20.0	19.8		ug/L		99	70 - 130
Chlorodibromomethane	20.0	20.4		ug/L		102	70 - 133
Chloroethane	20.0	22.9		ug/L		114	60 - 138
Chloroform	20.0	19.1		ug/L		96	70 - 130
Chloromethane	20.0	23.4		ug/L		117	33 - 150
cis-1,2-Dichloroethene	20.0	20.1		ug/L		101	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-413423/4
Matrix: Water
Analysis Batch: 413423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	70 - 133
Dibromomethane	20.0	18.7		ug/L		93	70 - 130
Dichlorodifluoromethane	20.0	22.7		ug/L		113	48 - 150
Ethylbenzene	20.0	19.9		ug/L		100	70 - 130
Hexachlorobutadiene	20.0	19.4		ug/L		97	70 - 138
Isopropylbenzene	20.0	20.1		ug/L		101	70 - 131
Methyl tert-butyl ether	20.0	18.5		ug/L		92	70 - 130
Methylene Chloride	20.0	20.3		ug/L		102	70 - 130
Naphthalene	20.0	19.4		ug/L		97	54 - 150
n-Butylbenzene	20.0	19.6		ug/L		98	68 - 137
N-Propylbenzene	20.0	20.9		ug/L		105	70 - 134
4-Isopropyltoluene	20.0	19.9		ug/L		100	66 - 130
sec-Butylbenzene	20.0	20.3		ug/L		102	70 - 135
Styrene	20.0	19.5		ug/L		98	70 - 130
tert-Butylbenzene	20.0	20.1		ug/L		100	70 - 130
Tetrachloroethene	20.0	19.6		ug/L		98	70 - 130
Toluene	20.0	20.5		ug/L		103	70 - 130
trans-1,2-Dichloroethene	20.0	20.5		ug/L		102	70 - 130
trans-1,3-Dichloropropene	20.0	18.5		ug/L		93	63 - 142
Trichloroethene	20.0	20.0		ug/L		100	70 - 130
Trichlorofluoromethane	20.0	18.5		ug/L		93	59 - 150
Vinyl chloride	20.0	23.5		ug/L		118	57 - 137
Xylenes, Total	40.0	39.4		ug/L		99	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: 720-78041-1 MS
Matrix: Water
Analysis Batch: 413423

Client Sample ID: EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		20.0	20.8		ug/L		104	70 - 131
1,1,1-Trichloroethane	ND		20.0	20.7		ug/L		103	68 - 144
1,1,2,2-Tetrachloroethane	ND		20.0	22.4		ug/L		112	56 - 145
1,1,2-Trichloroethane	ND		20.0	22.0		ug/L		110	70 - 130
1,1-Dichloroethane	ND		20.0	22.3		ug/L		111	61 - 139
1,1-Dichloroethene	ND		20.0	23.1		ug/L		115	54 - 150
1,1-Dichloropropene	ND		20.0	23.0		ug/L		115	54 - 150
1,2,3-Trichlorobenzene	ND		20.0	20.0		ug/L		100	36 - 150
1,2,3-Trichloropropane	ND		20.0	19.3		ug/L		96	65 - 131
1,2,4-Trichlorobenzene	ND		20.0	20.4		ug/L		102	47 - 147
1,2,4-Trimethylbenzene	ND		20.0	22.1		ug/L		110	64 - 136
1,2-Dibromo-3-Chloropropane	ND		20.0	19.5		ug/L		97	38 - 138
1,2-Dibromoethane (EDB)	ND		20.0	20.5		ug/L		103	65 - 137

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-78041-1 MS

Matrix: Water

Analysis Batch: 413423

Client Sample ID: EFF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		20.0	21.0		ug/L		105	70 - 130
1,2-Dichloroethane	ND		20.0	19.3		ug/L		97	64 - 136
1,2-Dichloropropane	ND		20.0	22.7		ug/L		114	67 - 130
1,3,5-Trimethylbenzene	ND		20.0	22.2		ug/L		111	69 - 139
1,3-Dichlorobenzene	ND		20.0	21.2		ug/L		106	68 - 131
1,3-Dichloropropane	ND		20.0	21.3		ug/L		106	70 - 130
1,4-Dichlorobenzene	ND		20.0	20.7		ug/L		104	70 - 130
2,2-Dichloropropane	ND		20.0	18.0		ug/L		90	50 - 146
2-Butanone (MEK)	ND		100	97.4		ug/L		97	50 - 143
2-Chlorotoluene	ND		20.0	22.2		ug/L		111	67 - 138
2-Hexanone	ND		100	101		ug/L		101	44 - 150
4-Chlorotoluene	ND		20.0	21.8		ug/L		109	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		100	104		ug/L		104	50 - 140
Acetone	ND		100	99.1		ug/L		99	39 - 150
Benzene	ND		20.0	23.3		ug/L		117	55 - 147
Bromobenzene	ND		20.0	22.5		ug/L		113	60 - 133
Chlorobromomethane	ND		20.0	19.9		ug/L		99	59 - 132
Dichlorobromomethane	ND		20.0	21.4		ug/L		107	70 - 140
Bromoform	ND		20.0	21.3		ug/L		106	53 - 150
Bromomethane	ND		20.0	22.6		ug/L		113	30 - 150
Carbon disulfide	ND		20.0	23.4		ug/L		117	35 - 150
Carbon tetrachloride	ND		20.0	21.9		ug/L		110	56 - 150
Chlorobenzene	ND		20.0	21.7		ug/L		109	70 - 130
Chlorodibromomethane	ND		20.0	22.3		ug/L		111	66 - 140
Chloroethane	ND		20.0	26.6		ug/L		133	58 - 141
Chloroform	ND		20.0	21.2		ug/L		106	66 - 138
Chloromethane	ND		20.0	28.5		ug/L		142	10 - 150
cis-1,2-Dichloroethene	ND		20.0	22.1		ug/L		111	68 - 131
cis-1,3-Dichloropropene	ND		20.0	21.1		ug/L		106	70 - 133
Dibromomethane	ND		20.0	20.8		ug/L		104	70 - 130
Dichlorodifluoromethane	ND	F1	20.0	31.2	F1	ug/L		156	10 - 150
Ethylbenzene	ND		20.0	21.9		ug/L		110	65 - 139
Hexachlorobutadiene	ND		20.0	21.1		ug/L		105	61 - 141
Isopropylbenzene	ND		20.0	21.8		ug/L		109	70 - 137
Methyl tert-butyl ether	ND		20.0	19.9		ug/L		100	55 - 141
Methylene Chloride	ND		20.0	22.2		ug/L		111	64 - 130
Naphthalene	ND		20.0	20.1		ug/L		101	32 - 150
n-Butylbenzene	ND		20.0	21.3		ug/L		107	61 - 141
N-Propylbenzene	ND		20.0	22.9		ug/L		115	53 - 150
4-Isopropyltoluene	ND		20.0	21.8		ug/L		109	66 - 137
sec-Butylbenzene	ND		20.0	22.6		ug/L		113	55 - 136
Styrene	ND		20.0	20.7		ug/L		104	70 - 130
tert-Butylbenzene	ND		20.0	22.1		ug/L		111	70 - 138
Tetrachloroethene	ND		20.0	21.7		ug/L		108	57 - 138
Toluene	ND		20.0	22.5		ug/L		113	64 - 136
trans-1,2-Dichloroethene	ND		20.0	22.8		ug/L		114	59 - 143
trans-1,3-Dichloropropene	ND		20.0	19.9		ug/L		99	63 - 142
Trichloroethene	ND		20.0	22.7		ug/L		114	63 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-78041-1 MS

Matrix: Water

Analysis Batch: 413423

Client Sample ID: EFF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	ND		20.0	22.6		ug/L		113	44 - 150
Vinyl chloride	ND		20.0	28.4		ug/L		142	57 - 150
Xylenes, Total	ND		40.0	42.7		ug/L		107	69 - 132

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: 720-78041-1 MSD

Matrix: Water

Analysis Batch: 413423

Client Sample ID: EFF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.0	20.4		ug/L		102	70 - 131	2	16
1,1,1-Trichloroethane	ND		20.0	20.6		ug/L		103	68 - 144	0	17
1,1,2,2-Tetrachloroethane	ND		20.0	22.2		ug/L		111	56 - 145	1	19
1,1,2-Trichloroethane	ND		20.0	21.4		ug/L		107	70 - 130	3	18
1,1-Dichloroethane	ND		20.0	21.9		ug/L		110	61 - 139	2	23
1,1-Dichloroethene	ND		20.0	23.4		ug/L		117	54 - 150	1	24
1,1-Dichloropropene	ND		20.0	22.5		ug/L		112	54 - 150	2	24
1,2,3-Trichlorobenzene	ND		20.0	20.0		ug/L		100	36 - 150	0	43
1,2,3-Trichloropropane	ND		20.0	18.9		ug/L		95	65 - 131	2	19
1,2,4-Trichlorobenzene	ND		20.0	20.1		ug/L		100	47 - 147	2	24
1,2,4-Trimethylbenzene	ND		20.0	21.6		ug/L		108	64 - 136	2	18
1,2-Dibromo-3-Chloropropane	ND		20.0	19.7		ug/L		99	38 - 138	1	26
1,2-Dibromoethane (EDB)	ND		20.0	20.1		ug/L		100	65 - 137	2	21
1,2-Dichlorobenzene	ND		20.0	21.1		ug/L		105	70 - 130	0	15
1,2-Dichloroethane	ND		20.0	19.0		ug/L		95	64 - 136	2	22
1,2-Dichloropropane	ND		20.0	22.3		ug/L		112	67 - 130	2	19
1,3,5-Trimethylbenzene	ND		20.0	22.1		ug/L		111	69 - 139	0	17
1,3-Dichlorobenzene	ND		20.0	20.9		ug/L		105	68 - 131	1	14
1,3-Dichloropropane	ND		20.0	21.1		ug/L		106	70 - 130	1	17
1,4-Dichlorobenzene	ND		20.0	20.9		ug/L		104	70 - 130	1	14
2,2-Dichloropropane	ND		20.0	17.5		ug/L		87	50 - 146	3	20
2-Butanone (MEK)	ND		100	93.0		ug/L		93	50 - 143	5	28
2-Chlorotoluene	ND		20.0	22.0		ug/L		110	67 - 138	1	17
2-Hexanone	ND		100	98.8		ug/L		99	44 - 150	2	21
4-Chlorotoluene	ND		20.0	21.7		ug/L		109	69 - 138	0	15
4-Methyl-2-pentanone (MIBK)	ND		100	102		ug/L		102	50 - 140	2	24
Acetone	ND		100	100		ug/L		100	39 - 150	1	28
Benzene	ND		20.0	22.9		ug/L		115	55 - 147	2	22
Bromobenzene	ND		20.0	22.1		ug/L		111	60 - 133	2	18
Chlorobromomethane	ND		20.0	19.7		ug/L		99	59 - 132	1	21
Dichlorobromomethane	ND		20.0	21.1		ug/L		106	70 - 140	1	196
Bromoform	ND		20.0	20.9		ug/L		105	53 - 150	2	20
Bromomethane	ND		20.0	22.5		ug/L		112	30 - 150	1	44

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-78041-1 MSD

Matrix: Water

Analysis Batch: 413423

Client Sample ID: EFF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	ND		20.0	23.1		ug/L		116	35 - 150	1	34
Carbon tetrachloride	ND		20.0	21.6		ug/L		108	56 - 150	1	18
Chlorobenzene	ND		20.0	21.4		ug/L		107	70 - 130	2	15
Chlorodibromomethane	ND		20.0	22.2		ug/L		111	66 - 140	0	19
Chloroethane	ND		20.0	26.4		ug/L		132	58 - 141	1	31
Chloroform	ND		20.0	20.8		ug/L		104	66 - 138	2	21
Chloromethane	ND		20.0	28.1		ug/L		140	10 - 150	2	43
cis-1,2-Dichloroethene	ND		20.0	21.6		ug/L		108	68 - 131	2	21
cis-1,3-Dichloropropene	ND		20.0	20.7		ug/L		104	70 - 133	2	19
Dibromomethane	ND		20.0	20.3		ug/L		101	70 - 130	2	19
Dichlorodifluoromethane	ND	F1	20.0	30.0		ug/L		150	10 - 150	4	50
Ethylbenzene	ND		20.0	21.4		ug/L		107	65 - 139	2	18
Hexachlorobutadiene	ND		20.0	21.2		ug/L		106	61 - 141	1	26
Isopropylbenzene	ND		20.0	21.4		ug/L		107	70 - 137	2	17
Methyl tert-butyl ether	ND		20.0	19.8		ug/L		99	55 - 141	1	24
Methylene Chloride	ND		20.0	21.6		ug/L		108	64 - 130	3	22
Naphthalene	ND		20.0	20.3		ug/L		102	32 - 150	1	40
n-Butylbenzene	ND		20.0	21.1		ug/L		106	61 - 141	1	17
N-Propylbenzene	ND		20.0	22.7		ug/L		114	53 - 150	1	18
4-Isopropyltoluene	ND		20.0	21.5		ug/L		107	66 - 137	2	16
sec-Butylbenzene	ND		20.0	22.2		ug/L		111	55 - 136	2	50
Styrene	ND		20.0	20.4		ug/L		102	70 - 130	2	16
tert-Butylbenzene	ND		20.0	21.8		ug/L		109	70 - 138	2	17
Tetrachloroethene	ND		20.0	21.4		ug/L		107	57 - 138	1	17
Toluene	ND		20.0	22.3		ug/L		112	64 - 136	1	18
trans-1,2-Dichloroethene	ND		20.0	22.6		ug/L		113	59 - 143	1	25
trans-1,3-Dichloropropene	ND		20.0	19.4		ug/L		97	63 - 142	2	18
Trichloroethene	ND		20.0	22.4		ug/L		112	63 - 135	2	17
Trichlorofluoromethane	ND		20.0	21.9		ug/L		109	44 - 150	3	32
Vinyl chloride	ND		20.0	28.2		ug/L		141	57 - 150	1	37
Xylenes, Total	ND		40.0	42.4		ug/L		106	69 - 132	1	17

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

GC/MS VOA

Analysis Batch: 413422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78041-1	EFF	Total/NA	Water	8260B	
720-78041-2	GAC	Total/NA	Water	8260B	
720-78041-3	INF	Total/NA	Water	8260B	
MB 490-413422/9	Method Blank	Total/NA	Water	8260B	
LCS 490-413422/7	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 413423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78041-1	EFF	Total/NA	Water	8260B	
720-78041-2	GAC	Total/NA	Water	8260B	
720-78041-3	INF	Total/NA	Water	8260B	
MB 490-413423/9	Method Blank	Total/NA	Water	8260B	
LCS 490-413423/4	Lab Control Sample	Total/NA	Water	8260B	
720-78041-1 MS	EFF	Total/NA	Water	8260B	
720-78041-1 MSD	EFF	Total/NA	Water	8260B	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Client Sample ID: EFF
Date Collected: 03/03/17 13:10
Date Received: 03/03/17 14:55

Lab Sample ID: 720-78041-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	413422	03/10/17 02:21	AK1	TAL NSH
Total/NA	Analysis	8260B		1	413423	03/10/17 02:21	AK1	TAL NSH

Client Sample ID: GAC
Date Collected: 03/03/17 13:12
Date Received: 03/03/17 14:55

Lab Sample ID: 720-78041-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	413422	03/10/17 03:18	AK1	TAL NSH
Total/NA	Analysis	8260B		1	413423	03/10/17 03:18	AK1	TAL NSH

Client Sample ID: INF
Date Collected: 03/03/17 13:15
Date Received: 03/03/17 14:55

Lab Sample ID: 720-78041-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	413422	03/10/17 02:50	AK1	TAL NSH
Total/NA	Analysis	8260B		1	413423	03/10/17 02:50	AK1	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Laboratory: TestAmerica Pleasanton

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-18

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	07-24-17
Arizona	State Program	9	AZ0473	05-05-17
Arkansas DEQ	State Program	6	88-0737	04-25-17
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-17
Georgia	State Program	4	N/A	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-17
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-17
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-17
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-17
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-17
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-17
New York	NELAP	2	11342	03-31-17
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-17
Ohio VAP	State Program	5	CL0033	07-10-17
Oklahoma	State Program	6	9412	08-31-17
Oregon	NELAP	10	TN200001	04-27-17
Pennsylvania	NELAP	3	68-00585	06-30-17
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-18-17 *
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-17 *
Texas	NELAP	6	T104704077	08-31-17
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17
Virginia	NELAP	3	460152	06-14-17
Washington	State Program	10	C789	07-19-17
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-17
Wyoming (UST)	A2LA	8	453.07	12-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Pleasanton

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78041-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-78041-1	EFF	Water	03/03/17 13:10	03/03/17 14:55
720-78041-2	GAC	Water	03/03/17 13:12	03/03/17 14:55
720-78041-3	INF	Water	03/03/17 13:15	03/03/17 14:55

- 1
- 2
- 3
- 4
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- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
 1220 Quarry Lane • Pleasanton CA 94566-4756
 Phone: (925) 484-1919 • Fax: (925) 600-3002

720-78041

Analysis Request

Date 3.3.17 Page 1 of 1

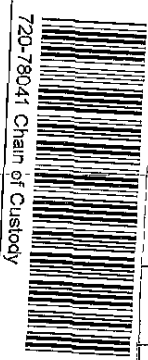
3/2017

Report To

Client: Peter Sims
 Company: Ningo & Moore
 Address: 1956 Webster St. #400
 Email: psims@ningoandmoore.com
 Bill To: 401096004 Sampled By: ALT
 Phone: 510.343.3000

Sample ID	Date	Time	Mat	Preserv
EFF	3.3.17	1330	N	Hcl
GAC	3.3.17	1312	W	Hcl
INF	3.3.17	1315	N	Hcl

- Volatile Organics GC/MS (VOCs)
- EPA 8260B
- HVOCs by EPA 8260B
- EPA 8260B: Gas BTEX
- 5 Oxygenates DCA, EDB Ethanol
- TEPH EPA 8015B Silca Gel
- Diesel Motor Oil Other
- SemiVolatile Organics GC/MS
- EPA 8270C
- PNA/PAH's by 8270C
- 8270C SIM
- Oil and Grease Petroleum
- (EPA 1664/9071) Total
- Pesticides EPA 8081
- PCBs EPA 8082
- CAM17 Metals (EPA 6010/7470/7471)
- Metals: 6010B 200.7
- Lead LUFT RCRA Other:
- Metals: 6020 200.8 (ICP-MS):
- W.E.T (STLC)
- W.E.T (DI) TCLP
- Hex Chrom by EPA 7196
- or EPA 7199
- pH 9040
- SM4500
- Spec. Cond. Alkalinity
- TSS SS TDS
- Anions: Cl SO₄ NO₃ F
- Br NO₂ PO₄
- Perchlorate by EPA 314.0
- COD EPA 410.4 SM5220D
- Turbidity



Project Info

Project Name: # Chun
 # of Containers: 1
 Head Space: 1
 Temp: 1

Credit Card V/N:
 If yes, please call with payment information ASAP

T	A	10	5	4	3	2	1	Other
Day	Day	Day	Day	Day	Day	Day	Day	

Report: Routine Level 3 Level 4 EDD EDF
 Special Instructions / Comments: Global ID

See Terms and Conditions on reverse

Sample Receipt

1) Relinquished by: Asma Tuman
 Signature: [Signature]
 Printed Name: Asma Tuman
 Date: 3.3.17
 Company: Ningo & Moore

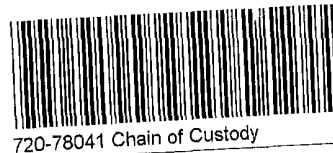
2) Relinquished by: Robert
 Signature: [Signature]
 Printed Name: Robert
 Date: 3/3/17
 Company: TA

3) Relinquished by:
 Signature:
 Printed Name:
 Date:
 Company:

1) Received by: Robert
 Signature: [Signature]
 Printed Name: Robert
 Date: 3/3/17
 Company: TA

2) Received by: Deanna
 Signature: [Signature]
 Printed Name: Deanna
 Date: 3/3/17
 Company: TA

3) Received by:
 Signature:
 Printed Name:
 Date:
 Company:



Cooler Received/Opened On 3/8/2017 @ 0935

Time Samples Removed From Cooler 1553 Time Samples Placed In Storage 1737 (2 Hour Window)

1. Tracking # 8828 (last 4 digits, FedEx) Courier: FedEx
IR Gun ID 160406069 pH Strip Lot NA Chlorine Strip Lot NA

2. Temperature of rep. sample or temp blank when opened: 5.9 Degrees Celsius

3. If Item #2 temperatures is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES NO...NO...NA

6. Were custody papers inside cooler? YES NO...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [Signature]

7. Were custody seals on containers: YES NO and Intact YES NO...NA

Were these signed and dated correctly? YES NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO...NO...NA

12. Did all container labels and tags agree with custody papers? YES NO...NO...NA

13a. Were VOA vials received? YES NO...NA

b. Was there any observable headspace present in any VOA vial? YES NO...NA

14. Was there a Trip Blank in this cooler? YES NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO...NA

16. Was residual chlorine present? YES NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES NO...NA

18. Did you sign the custody papers in the appropriate place? YES NO...NA

19. Were correct containers used for the analysis requested? YES NO...NA

20. Was sufficient amount of sample sent in each container? YES NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

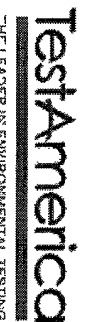
21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO...#

TestAmerica Pleasanton

1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

720-78041



COC No: 720-32922-1

Page: Page 1 of 1

Job #: 720-78041-1

State of Origin: California

Lab P/N: Duong, Paloma F
E-Mail: paloma.duong@testamericainc.com
Accreditations Required (See note): State Program - California

Client Contact: Shipping/Receiving
Company: TestAmerica Laboratories, Inc
Address: 2960 Foster Creighton Drive,
City: Nashville
State Zip: TN, 37204
Phone: 615-726-0177(Tel) 615-726-3404(Fax)
Email: PO #:
WO #:
Project Name: Chun
Project #: 72010606
SSOW#:

Due Date Requested: 3/9/2017
TAT Requested (days):

Analysis Requested

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix (Metal, Semimetal, Organic, Aqueous)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B Gasoline Range Organics (GRO)	8260B_LL/5030B Standard 8260 List	Total Number of containers	Special Instructions/Note:
EFF (720-78041-1)	3/3/17	13:10 Pacific		Water		X	X	X	X	3	
GAC (720-78041-2)	3/3/17	13:12 Pacific		Water		X	X	X	X	3	
INF (720-78041-3)	3/3/17	13:15 Pacific		Water		X	X	X	X	3	

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
<i>[Signature]</i>	3/7/17 15:00	Company	<i>[Signature]</i>	3/8/17 14:00:35	Company
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unclassified
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: 5.9

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-78041-1

Login Number: 78041
List Number: 1
Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-78041-1

Login Number: 78041
List Number: 2
Creator: Vest, Laura E

List Source: TestAmerica Nashville
List Creation: 03/08/17 04:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-78051-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
3/13/2017 5:23:22 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	8
QC Sample Results	22
QC Association Summary	43
Lab Chronicle	47
Certification Summary	50
Method Summary	52
Sample Summary	53
Chain of Custody	54
Receipt Checklists	58

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Job ID: 720-78051-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-78051-1

Comments

No additional comments.

Receipt

The samples were received on 3/3/2017 2:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Far right analyses column lists 300 0 OFMS; MOD, but no analyte was listed. Based on previous jobs, this was logged in for Sulfate by method 300. The Orthophosphate samples were not field filtered.

GC/MS VOA

Method 8260B: The following sample was diluted due to the nature of the sample matrix: MW-12 (720-78051-2). Elevated reporting limits (RLs) are provided. High concentration of target analytes detected.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-413303.

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-413569 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The following sample was diluted due to the nature of the sample matrix: MW-11R (720-78051-4), MW-5R (720-78051-6) and MW-7R (720-78051-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 300.0: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 720-218750 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of chloride in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 300.0: The continuing calibration verification (CCV) associated with batch 720-218751 recovered above the upper control limit for nitrite. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-12 (720-78051-2), MW-8 (720-78051-3), MW-11R (720-78051-4), MW-4R (720-78051-5), MW-5R (720-78051-6) and MW-7R (720-78051-7).

Method 300.0: Reanalysis of the following sample was performed outside of the analytical holding time due to QC failure of nitrite : MW-9 (720-78051-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-9

Lab Sample ID: 720-78051-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrite as NO2	1.6	H	1.0		mg/L	1		300.0	Total/NA
Sulfate	40		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	71		10		mg/L	10		300.0	Total/NA
Iron	2.6		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Orthophosphate as P	0.033		0.020		mg/L	1		SM 4500 P E	Dissolved

Client Sample ID: MW-12

Lab Sample ID: 720-78051-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	1300		500		ug/L	10		8260B	Total/NA
Benzene	1100		5.0		ug/L	10		8260B	Total/NA
Ethylbenzene	5.4		5.0		ug/L	10		8260B	Total/NA
Sulfate	2.4		1.0		mg/L	1		300.0	Total/NA
Iron	2.1		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferrous Iron	2.1	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 720-78051-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	750		50		ug/L	1		8260B	Total/NA
Acetone	7.6		5.0		ug/L	1		8260B	Total/NA
Benzene	2.1		0.50		ug/L	1		8260B	Total/NA
Ethylbenzene	1.7		0.50		ug/L	1		8260B	Total/NA
Isopropylbenzene	7.2		1.0		ug/L	1		8260B	Total/NA
Naphthalene	26		5.0		ug/L	1		8260B	Total/NA
N-Propylbenzene	7.7		0.50		ug/L	1		8260B	Total/NA
sec-Butylbenzene	0.75		0.50		ug/L	1		8260B	Total/NA
Toluene	4.6		0.50		ug/L	1		8260B	Total/NA
Xylenes, Total	9.5		1.0		ug/L	1		8260B	Total/NA
Sulfate	20		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	2.6		1.0		mg/L	1		300.0	Total/NA
Iron	15		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferrous Iron	1.0	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Orthophosphate as P	0.032		0.020		mg/L	1		SM 4500 P E	Dissolved

Client Sample ID: MW-11R

Lab Sample ID: 720-78051-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	4500		250		ug/L	5		8260B	Total/NA
1,2,4-Trimethylbenzene	280		2.5		ug/L	5		8260B	Total/NA
1,3,5-Trimethylbenzene	83		2.5		ug/L	5		8260B	Total/NA
Benzene	750		2.5		ug/L	5		8260B	Total/NA
Ethylbenzene	190		2.5		ug/L	5		8260B	Total/NA
Isopropylbenzene	24		5.0		ug/L	5		8260B	Total/NA
Naphthalene	73		2.5		ug/L	5		8260B	Total/NA
n-Butylbenzene	12		2.5		ug/L	5		8260B	Total/NA
N-Propylbenzene	47		2.5		ug/L	5		8260B	Total/NA
Toluene	160		2.5		ug/L	5		8260B	Total/NA
Xylenes, Total	570		5.0		ug/L	5		8260B	Total/NA
Sulfate	22		10		mg/L	10		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-11R (Continued)

Lab Sample ID: 720-78051-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as NO3	19		1.0		mg/L	1		300.0	Total/NA
Iron	2.5		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferrous Iron	2.2	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-4R

Lab Sample ID: 720-78051-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	660		50		ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	26		0.50		ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	5.0		0.50		ug/L	1		8260B	Total/NA
Benzene	130		0.50		ug/L	1		8260B	Total/NA
Ethylbenzene	42		0.50		ug/L	1		8260B	Total/NA
Isopropylbenzene	3.0		1.0		ug/L	1		8260B	Total/NA
Naphthalene	11		5.0		ug/L	1		8260B	Total/NA
n-Butylbenzene	0.87		0.50		ug/L	1		8260B	Total/NA
N-Propylbenzene	4.6		0.50		ug/L	1		8260B	Total/NA
Toluene	27		0.50		ug/L	1		8260B	Total/NA
Xylenes, Total	130		1.0		ug/L	1		8260B	Total/NA
Sulfate	40		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	75		10		mg/L	10		300.0	Total/NA
Iron	1.1		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ammonia	0.37		0.20		mg/L	1		SM 4500 NH3 G	Total/NA
Orthophosphate as P	0.077		0.020		mg/L	1		SM 4500 P E	Dissolved

Client Sample ID: MW-5R

Lab Sample ID: 720-78051-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	15000		500		ug/L	10		8260B	Total/NA
1,2,4-Trimethylbenzene	570		5.0		ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene	140		5.0		ug/L	10		8260B	Total/NA
Benzene	49		5.0		ug/L	10		8260B	Total/NA
Ethylbenzene	570	F1	5.0		ug/L	10		8260B	Total/NA
Isopropylbenzene	53		10		ug/L	10		8260B	Total/NA
Naphthalene	310		50		ug/L	10		8260B	Total/NA
n-Butylbenzene	17		5.0		ug/L	10		8260B	Total/NA
N-Propylbenzene	73		5.0		ug/L	10		8260B	Total/NA
Toluene	660		5.0		ug/L	10		8260B	Total/NA
Xylenes, Total	3700		10		ug/L	10		8260B	Total/NA
Sulfate	34		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	12		1.0		mg/L	1		300.0	Total/NA
Ferrous Iron	0.23	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Ammonia	4.8		0.20		mg/L	1		SM 4500 NH3 G	Total/NA
Orthophosphate as P	0.37		0.020		mg/L	1		SM 4500 P E	Dissolved

Client Sample ID: MW-7R

Lab Sample ID: 720-78051-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	57000		2500		ug/L	50		8260B	Total/NA
1,2,4-Trimethylbenzene	2300		25		ug/L	50		8260B	Total/NA
1,3,5-Trimethylbenzene	620		25		ug/L	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-7R (Continued)

Lab Sample ID: 720-78051-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	280		250		ug/L	50		8260B	Total/NA
Benzene	820		25		ug/L	50		8260B	Total/NA
Ethylbenzene	870		25		ug/L	50		8260B	Total/NA
Isopropylbenzene	83		50		ug/L	50		8260B	Total/NA
Naphthalene	550		250		ug/L	50		8260B	Total/NA
n-Butylbenzene	40		25		ug/L	50		8260B	Total/NA
N-Propylbenzene	170		25		ug/L	50		8260B	Total/NA
Toluene	5800		25		ug/L	50		8260B	Total/NA
Xylenes, Total	15000		50		ug/L	50		8260B	Total/NA
Nitrite as NO2	5.7		1.0		mg/L	1		300.0	Total/NA
Sulfate	20		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	8.6		1.0		mg/L	1		300.0	Total/NA
Iron	2.8		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferrous Iron	0.27	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Ammonia	2.5		0.20		mg/L	1		SM 4500 NH3 G	Total/NA
Orthophosphate as P	0.58		0.020		mg/L	1		SM 4500 P E	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-9
Date Collected: 03/03/17 08:05
Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 17:52	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/09/17 17:52	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 17:52	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/09/17 17:52	1
1,1-Dichloroethane	ND		0.50		ug/L			03/09/17 17:52	1
GRO (C4-C12)	ND		50		ug/L			03/09/17 17:52	1
1,1-Dichloroethene	ND		0.50		ug/L			03/09/17 17:52	1
1,1-Dichloropropene	ND		0.50		ug/L			03/09/17 17:52	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/09/17 17:52	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/09/17 17:52	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/09/17 17:52	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/09/17 17:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/09/17 17:52	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/09/17 17:52	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/09/17 17:52	1
1,2-Dichloroethane	ND		0.50		ug/L			03/09/17 17:52	1
1,2-Dichloropropane	ND		0.50		ug/L			03/09/17 17:52	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/09/17 17:52	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/09/17 17:52	1
1,3-Dichloropropane	ND		0.50		ug/L			03/09/17 17:52	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/09/17 17:52	1
2,2-Dichloropropane	ND		0.50		ug/L			03/09/17 17:52	1
2-Butanone (MEK)	ND		50		ug/L			03/09/17 17:52	1
2-Chlorotoluene	ND		0.50		ug/L			03/09/17 17:52	1
2-Hexanone	ND		5.0		ug/L			03/09/17 17:52	1
4-Chlorotoluene	ND		0.50		ug/L			03/09/17 17:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/09/17 17:52	1
Acetone	ND		5.0		ug/L			03/09/17 17:52	1
Benzene	ND		0.50		ug/L			03/09/17 17:52	1
Bromobenzene	ND		0.50		ug/L			03/09/17 17:52	1
Chlorobromomethane	ND		0.50		ug/L			03/09/17 17:52	1
Dichlorobromomethane	ND		0.50		ug/L			03/09/17 17:52	1
Bromoform	ND		0.50		ug/L			03/09/17 17:52	1
Bromomethane	ND		0.50		ug/L			03/09/17 17:52	1
Carbon disulfide	ND		0.50		ug/L			03/09/17 17:52	1
Carbon tetrachloride	ND		0.50		ug/L			03/09/17 17:52	1
Chlorobenzene	ND		0.50		ug/L			03/09/17 17:52	1
Chlorodibromomethane	ND		0.50		ug/L			03/09/17 17:52	1
Chloroethane	ND		0.50		ug/L			03/09/17 17:52	1
Chloroform	ND		0.50		ug/L			03/09/17 17:52	1
Chloromethane	ND		0.50		ug/L			03/09/17 17:52	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 17:52	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 17:52	1
Dibromomethane	ND		0.50		ug/L			03/09/17 17:52	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/09/17 17:52	1
Ethylbenzene	ND		0.50		ug/L			03/09/17 17:52	1
Hexachlorobutadiene	ND		1.0		ug/L			03/09/17 17:52	1
Isopropylbenzene	ND		1.0		ug/L			03/09/17 17:52	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/09/17 17:52	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-9
Date Collected: 03/03/17 08:05
Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			03/09/17 17:52	1
Naphthalene	ND		5.0		ug/L			03/09/17 17:52	1
n-Butylbenzene	ND		0.50		ug/L			03/09/17 17:52	1
N-Propylbenzene	ND		0.50		ug/L			03/09/17 17:52	1
4-Isopropyltoluene	ND		0.50		ug/L			03/09/17 17:52	1
sec-Butylbenzene	ND		0.50		ug/L			03/09/17 17:52	1
Styrene	ND		0.50		ug/L			03/09/17 17:52	1
tert-Butylbenzene	ND		0.50		ug/L			03/09/17 17:52	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 17:52	1
Toluene	ND		0.50		ug/L			03/09/17 17:52	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 17:52	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 17:52	1
Trichloroethene	ND		0.50		ug/L			03/09/17 17:52	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 17:52	1
Vinyl chloride	ND		0.50		ug/L			03/09/17 17:52	1
Xylenes, Total	ND		1.0		ug/L			03/09/17 17:52	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130				03/09/17 17:52	1
4-Bromofluorobenzene (Surr)	98		70 - 130				03/09/17 17:52	1
Dibromofluoromethane (Surr)	101		70 - 130				03/09/17 17:52	1
Toluene-d8 (Surr)	101		70 - 130				03/09/17 17:52	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130				03/09/17 17:52	1
4-Bromofluorobenzene (Surr)	98		70 - 130				03/09/17 17:52	1
Dibromofluoromethane (Surr)	101		70 - 130				03/09/17 17:52	1
Toluene-d8 (Surr)	101		70 - 130				03/09/17 17:52	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	1.6	H	1.0		mg/L			03/07/17 01:19	1
Sulfate	40		10		mg/L			03/03/17 19:20	10
Nitrate as NO3	71		10		mg/L			03/03/17 19:20	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.6		1.0		mg/L		03/06/17 11:19	03/09/17 18:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND	HF	0.10		mg/L			03/06/17 15:15	1
Ammonia	ND		0.20		mg/L		03/07/17 18:35	03/07/17 21:53	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	0.033		0.020		mg/L			03/03/17 12:03	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-12
Date Collected: 03/03/17 08:55
Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			03/09/17 18:49	10
1,1,1-Trichloroethane	ND		5.0		ug/L			03/09/17 18:49	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			03/09/17 18:49	10
1,1,2-Trichloroethane	ND		5.0		ug/L			03/09/17 18:49	10
1,1-Dichloroethane	ND		5.0		ug/L			03/09/17 18:49	10
GRO (C4-C12)	1300		500		ug/L			03/09/17 18:49	10
1,1-Dichloroethene	ND		5.0		ug/L			03/09/17 18:49	10
1,1-Dichloropropene	ND		5.0		ug/L			03/09/17 18:49	10
1,2,3-Trichlorobenzene	ND		5.0		ug/L			03/09/17 18:49	10
1,2,3-Trichloropropane	ND		5.0		ug/L			03/09/17 18:49	10
1,2,4-Trichlorobenzene	ND		5.0		ug/L			03/09/17 18:49	10
1,2,4-Trimethylbenzene	ND		5.0		ug/L			03/09/17 18:49	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			03/09/17 18:49	10
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			03/09/17 18:49	10
1,2-Dichlorobenzene	ND		5.0		ug/L			03/09/17 18:49	10
1,2-Dichloroethane	ND		5.0		ug/L			03/09/17 18:49	10
1,2-Dichloropropane	ND		5.0		ug/L			03/09/17 18:49	10
1,3,5-Trimethylbenzene	ND		5.0		ug/L			03/09/17 18:49	10
1,3-Dichlorobenzene	ND		5.0		ug/L			03/09/17 18:49	10
1,3-Dichloropropane	ND		5.0		ug/L			03/09/17 18:49	10
1,4-Dichlorobenzene	ND		5.0		ug/L			03/09/17 18:49	10
2,2-Dichloropropane	ND		5.0		ug/L			03/09/17 18:49	10
2-Butanone (MEK)	ND		500		ug/L			03/09/17 18:49	10
2-Chlorotoluene	ND		5.0		ug/L			03/09/17 18:49	10
2-Hexanone	ND		50		ug/L			03/09/17 18:49	10
4-Chlorotoluene	ND		5.0		ug/L			03/09/17 18:49	10
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			03/09/17 18:49	10
Acetone	ND		50		ug/L			03/09/17 18:49	10
Benzene	1100		5.0		ug/L			03/09/17 18:49	10
Bromobenzene	ND		5.0		ug/L			03/09/17 18:49	10
Chlorobromomethane	ND		5.0		ug/L			03/09/17 18:49	10
Dichlorobromomethane	ND		5.0		ug/L			03/09/17 18:49	10
Bromoform	ND		5.0		ug/L			03/09/17 18:49	10
Bromomethane	ND		5.0		ug/L			03/09/17 18:49	10
Carbon disulfide	ND		5.0		ug/L			03/09/17 18:49	10
Carbon tetrachloride	ND		5.0		ug/L			03/09/17 18:49	10
Chlorobenzene	ND		5.0		ug/L			03/09/17 18:49	10
Chlorodibromomethane	ND		5.0		ug/L			03/09/17 18:49	10
Chloroethane	ND		5.0		ug/L			03/09/17 18:49	10
Chloroform	ND		5.0		ug/L			03/09/17 18:49	10
Chloromethane	ND		5.0		ug/L			03/09/17 18:49	10
cis-1,2-Dichloroethene	ND		5.0		ug/L			03/09/17 18:49	10
cis-1,3-Dichloropropene	ND		5.0		ug/L			03/09/17 18:49	10
Dibromomethane	ND		5.0		ug/L			03/09/17 18:49	10
Dichlorodifluoromethane	ND		5.0		ug/L			03/09/17 18:49	10
Ethylbenzene	5.4		5.0		ug/L			03/09/17 18:49	10
Hexachlorobutadiene	ND		10		ug/L			03/09/17 18:49	10
Isopropylbenzene	ND		10		ug/L			03/09/17 18:49	10
Methyl tert-butyl ether	ND		5.0		ug/L			03/09/17 18:49	10

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-12

Lab Sample ID: 720-78051-2

Date Collected: 03/03/17 08:55

Matrix: Water

Date Received: 03/03/17 14:55

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		50		ug/L			03/09/17 18:49	10
Naphthalene	ND		50		ug/L			03/09/17 18:49	10
n-Butylbenzene	ND		5.0		ug/L			03/09/17 18:49	10
N-Propylbenzene	ND		5.0		ug/L			03/09/17 18:49	10
4-Isopropyltoluene	ND		5.0		ug/L			03/09/17 18:49	10
sec-Butylbenzene	ND		5.0		ug/L			03/09/17 18:49	10
Styrene	ND		5.0		ug/L			03/09/17 18:49	10
tert-Butylbenzene	ND		5.0		ug/L			03/09/17 18:49	10
Tetrachloroethene	ND		5.0		ug/L			03/09/17 18:49	10
Toluene	ND		5.0		ug/L			03/09/17 18:49	10
trans-1,2-Dichloroethene	ND		5.0		ug/L			03/09/17 18:49	10
trans-1,3-Dichloropropene	ND		5.0		ug/L			03/09/17 18:49	10
Trichloroethene	ND		5.0		ug/L			03/09/17 18:49	10
Trichlorofluoromethane	ND		5.0		ug/L			03/09/17 18:49	10
Vinyl chloride	ND		5.0		ug/L			03/09/17 18:49	10
Xylenes, Total	ND		10		ug/L			03/09/17 18:49	10

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130				03/09/17 18:49	10
4-Bromofluorobenzene (Surr)	98		70 - 130				03/09/17 18:49	10
Dibromofluoromethane (Surr)	99		70 - 130				03/09/17 18:49	10
Toluene-d8 (Surr)	101		70 - 130				03/09/17 18:49	10
1,2-Dichloroethane-d4 (Surr)	94		70 - 130				03/09/17 18:49	10
4-Bromofluorobenzene (Surr)	98		70 - 130				03/09/17 18:49	10
Dibromofluoromethane (Surr)	99		70 - 130				03/09/17 18:49	10
Toluene-d8 (Surr)	101		70 - 130				03/09/17 18:49	10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			03/03/17 19:37	1
Sulfate	2.4		1.0		mg/L			03/03/17 19:37	1
Nitrate as NO3	ND		1.0		mg/L			03/03/17 19:37	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.1		1.0		mg/L		03/06/17 11:19	03/10/17 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	2.1	HF	0.10		mg/L			03/06/17 15:15	1
Ammonia	ND		0.20		mg/L		03/07/17 18:35	03/07/17 21:56	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	ND		0.020		mg/L			03/03/17 12:03	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-8
Date Collected: 03/03/17 09:25
Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 18:21	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/09/17 18:21	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 18:21	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/09/17 18:21	1
1,1-Dichloroethane	ND		0.50		ug/L			03/09/17 18:21	1
GRO (C4-C12)	750		50		ug/L			03/09/17 18:21	1
1,1-Dichloroethene	ND		0.50		ug/L			03/09/17 18:21	1
1,1-Dichloropropene	ND		0.50		ug/L			03/09/17 18:21	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/09/17 18:21	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/09/17 18:21	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/09/17 18:21	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/09/17 18:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/09/17 18:21	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/09/17 18:21	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/09/17 18:21	1
1,2-Dichloroethane	ND		0.50		ug/L			03/09/17 18:21	1
1,2-Dichloropropane	ND		0.50		ug/L			03/09/17 18:21	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/09/17 18:21	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/09/17 18:21	1
1,3-Dichloropropane	ND		0.50		ug/L			03/09/17 18:21	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/09/17 18:21	1
2,2-Dichloropropane	ND		0.50		ug/L			03/09/17 18:21	1
2-Butanone (MEK)	ND		50		ug/L			03/09/17 18:21	1
2-Chlorotoluene	ND		0.50		ug/L			03/09/17 18:21	1
2-Hexanone	ND		5.0		ug/L			03/09/17 18:21	1
4-Chlorotoluene	ND		0.50		ug/L			03/09/17 18:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/09/17 18:21	1
Acetone	7.6		5.0		ug/L			03/09/17 18:21	1
Benzene	2.1		0.50		ug/L			03/09/17 18:21	1
Bromobenzene	ND		0.50		ug/L			03/09/17 18:21	1
Chlorobromomethane	ND		0.50		ug/L			03/09/17 18:21	1
Dichlorobromomethane	ND		0.50		ug/L			03/09/17 18:21	1
Bromoform	ND		0.50		ug/L			03/09/17 18:21	1
Bromomethane	ND		0.50		ug/L			03/09/17 18:21	1
Carbon disulfide	ND		0.50		ug/L			03/09/17 18:21	1
Carbon tetrachloride	ND		0.50		ug/L			03/09/17 18:21	1
Chlorobenzene	ND		0.50		ug/L			03/09/17 18:21	1
Chlorodibromomethane	ND		0.50		ug/L			03/09/17 18:21	1
Chloroethane	ND		0.50		ug/L			03/09/17 18:21	1
Chloroform	ND		0.50		ug/L			03/09/17 18:21	1
Chloromethane	ND		0.50		ug/L			03/09/17 18:21	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 18:21	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			03/09/17 18:21	1
Dibromomethane	ND		0.50		ug/L			03/09/17 18:21	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/09/17 18:21	1
Ethylbenzene	1.7		0.50		ug/L			03/09/17 18:21	1
Hexachlorobutadiene	ND		1.0		ug/L			03/09/17 18:21	1
Isopropylbenzene	7.2		1.0		ug/L			03/09/17 18:21	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/09/17 18:21	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-8
Date Collected: 03/03/17 09:25
Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			03/09/17 18:21	1
Naphthalene	26		5.0		ug/L			03/09/17 18:21	1
n-Butylbenzene	ND		0.50		ug/L			03/09/17 18:21	1
N-Propylbenzene	7.7		0.50		ug/L			03/09/17 18:21	1
4-Isopropyltoluene	ND		0.50		ug/L			03/09/17 18:21	1
sec-Butylbenzene	0.75		0.50		ug/L			03/09/17 18:21	1
Styrene	ND		0.50		ug/L			03/09/17 18:21	1
tert-Butylbenzene	ND		0.50		ug/L			03/09/17 18:21	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 18:21	1
Toluene	4.6		0.50		ug/L			03/09/17 18:21	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 18:21	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 18:21	1
Trichloroethene	ND		0.50		ug/L			03/09/17 18:21	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 18:21	1
Vinyl chloride	ND		0.50		ug/L			03/09/17 18:21	1
Xylenes, Total	9.5		1.0		ug/L			03/09/17 18:21	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 130					03/09/17 18:21	1
4-Bromofluorobenzene (Surr)	97		70 - 130					03/09/17 18:21	1
Dibromofluoromethane (Surr)	97		70 - 130					03/09/17 18:21	1
Toluene-d8 (Surr)	101		70 - 130					03/09/17 18:21	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130					03/09/17 18:21	1
4-Bromofluorobenzene (Surr)	97		70 - 130					03/09/17 18:21	1
Dibromofluoromethane (Surr)	97		70 - 130					03/09/17 18:21	1
Toluene-d8 (Surr)	101		70 - 130					03/09/17 18:21	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			03/03/17 22:02	1
Sulfate	20		10		mg/L			03/03/17 22:19	10
Nitrate as NO3	2.6		1.0		mg/L			03/03/17 22:02	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15		1.0		mg/L		03/06/17 11:19	03/10/17 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	1.0	HF	0.10		mg/L			03/06/17 15:15	1
Ammonia	ND		0.20		mg/L		03/07/17 18:35	03/07/17 21:59	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	0.032		0.020		mg/L			03/03/17 12:03	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-11R

Lab Sample ID: 720-78051-4

Date Collected: 03/03/17 10:10

Matrix: Water

Date Received: 03/03/17 14:55

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.5		ug/L			03/10/17 17:34	5
1,1,1-Trichloroethane	ND		2.5		ug/L			03/10/17 17:34	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			03/10/17 17:34	5
1,1,2-Trichloroethane	ND		2.5		ug/L			03/10/17 17:34	5
1,1-Dichloroethane	ND		2.5		ug/L			03/10/17 17:34	5
GRO (C4-C12)	4500		250		ug/L			03/10/17 17:34	5
1,1-Dichloroethene	ND		2.5		ug/L			03/10/17 17:34	5
1,1-Dichloropropene	ND		2.5		ug/L			03/10/17 17:34	5
1,2,3-Trichlorobenzene	ND		2.5		ug/L			03/10/17 17:34	5
1,2,3-Trichloropropane	ND		2.5		ug/L			03/10/17 17:34	5
1,2,4-Trichlorobenzene	ND		2.5		ug/L			03/10/17 17:34	5
1,2,4-Trimethylbenzene	280		2.5		ug/L			03/10/17 17:34	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			03/10/17 17:34	5
1,2-Dibromoethane (EDB)	ND		2.5		ug/L			03/10/17 17:34	5
1,2-Dichlorobenzene	ND		2.5		ug/L			03/10/17 17:34	5
1,2-Dichloroethane	ND		2.5		ug/L			03/10/17 17:34	5
1,2-Dichloropropane	ND		2.5		ug/L			03/10/17 17:34	5
1,3,5-Trimethylbenzene	83		2.5		ug/L			03/10/17 17:34	5
1,3-Dichlorobenzene	ND		2.5		ug/L			03/10/17 17:34	5
1,3-Dichloropropane	ND		2.5		ug/L			03/10/17 17:34	5
1,4-Dichlorobenzene	ND		2.5		ug/L			03/10/17 17:34	5
2,2-Dichloropropane	ND		2.5		ug/L			03/10/17 17:34	5
2-Butanone (MEK)	ND		250		ug/L			03/10/17 17:34	5
2-Chlorotoluene	ND		2.5		ug/L			03/10/17 17:34	5
2-Hexanone	ND		25		ug/L			03/10/17 17:34	5
4-Chlorotoluene	ND		2.5		ug/L			03/10/17 17:34	5
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			03/10/17 17:34	5
Acetone	ND		25		ug/L			03/10/17 17:34	5
Benzene	750		2.5		ug/L			03/10/17 17:34	5
Bromobenzene	ND		2.5		ug/L			03/10/17 17:34	5
Chlorobromomethane	ND		2.5		ug/L			03/10/17 17:34	5
Dichlorobromomethane	ND		2.5		ug/L			03/10/17 17:34	5
Bromoform	ND		2.5		ug/L			03/10/17 17:34	5
Bromomethane	ND		2.5		ug/L			03/10/17 17:34	5
Carbon disulfide	ND		2.5		ug/L			03/10/17 17:34	5
Carbon tetrachloride	ND		2.5		ug/L			03/10/17 17:34	5
Chlorobenzene	ND		2.5		ug/L			03/10/17 17:34	5
Chlorodibromomethane	ND		2.5		ug/L			03/10/17 17:34	5
Chloroethane	ND		2.5		ug/L			03/10/17 17:34	5
Chloroform	ND		2.5		ug/L			03/10/17 17:34	5
Chloromethane	ND		2.5		ug/L			03/10/17 17:34	5
cis-1,2-Dichloroethene	ND		2.5		ug/L			03/10/17 17:34	5
cis-1,3-Dichloropropene	ND		2.5		ug/L			03/10/17 17:34	5
Dibromomethane	ND		2.5		ug/L			03/10/17 17:34	5
Dichlorodifluoromethane	ND *		2.5		ug/L			03/10/17 17:34	5
Ethylbenzene	190		2.5		ug/L			03/10/17 17:34	5
Hexachlorobutadiene	ND		5.0		ug/L			03/10/17 17:34	5
Isopropylbenzene	24		5.0		ug/L			03/10/17 17:34	5
Methyl tert-butyl ether	ND		2.5		ug/L			03/10/17 17:34	5

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-11R

Lab Sample ID: 720-78051-4

Date Collected: 03/03/17 10:10

Matrix: Water

Date Received: 03/03/17 14:55

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		25		ug/L			03/10/17 17:34	5
Naphthalene	73		25		ug/L			03/10/17 17:34	5
n-Butylbenzene	12		2.5		ug/L			03/10/17 17:34	5
N-Propylbenzene	47		2.5		ug/L			03/10/17 17:34	5
4-Isopropyltoluene	ND		2.5		ug/L			03/10/17 17:34	5
sec-Butylbenzene	ND		2.5		ug/L			03/10/17 17:34	5
Styrene	ND		2.5		ug/L			03/10/17 17:34	5
tert-Butylbenzene	ND		2.5		ug/L			03/10/17 17:34	5
Tetrachloroethene	ND		2.5		ug/L			03/10/17 17:34	5
Toluene	160		2.5		ug/L			03/10/17 17:34	5
trans-1,2-Dichloroethene	ND		2.5		ug/L			03/10/17 17:34	5
trans-1,3-Dichloropropene	ND		2.5		ug/L			03/10/17 17:34	5
Trichloroethene	ND		2.5		ug/L			03/10/17 17:34	5
Trichlorofluoromethane	ND		2.5		ug/L			03/10/17 17:34	5
Vinyl chloride	ND		2.5		ug/L			03/10/17 17:34	5
Xylenes, Total	570		5.0		ug/L			03/10/17 17:34	5

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					03/10/17 17:34	5
4-Bromofluorobenzene (Surr)	100		70 - 130					03/10/17 17:34	5
Dibromofluoromethane (Surr)	100		70 - 130					03/10/17 17:34	5
Toluene-d8 (Surr)	101		70 - 130					03/10/17 17:34	5
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					03/10/17 17:34	5
4-Bromofluorobenzene (Surr)	100		70 - 130					03/10/17 17:34	5
Dibromofluoromethane (Surr)	100		70 - 130					03/10/17 17:34	5
Toluene-d8 (Surr)	101		70 - 130					03/10/17 17:34	5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			03/03/17 22:37	1
Sulfate	22		10		mg/L			03/03/17 22:54	10
Nitrate as NO3	19		1.0		mg/L			03/03/17 22:37	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.5		1.0		mg/L		03/06/17 11:19	03/10/17 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	2.2	HF	0.10		mg/L			03/06/17 15:15	1
Ammonia	ND		0.20		mg/L		03/07/17 18:35	03/07/17 22:02	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	ND		0.020		mg/L			03/03/17 12:03	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-4R
Date Collected: 03/03/17 10:45
Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 17:06	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/10/17 17:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 17:06	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/10/17 17:06	1
1,1-Dichloroethane	ND		0.50		ug/L			03/10/17 17:06	1
GRO (C4-C12)	660		50		ug/L			03/10/17 17:06	1
1,1-Dichloroethene	ND		0.50		ug/L			03/10/17 17:06	1
1,1-Dichloropropene	ND		0.50		ug/L			03/10/17 17:06	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/10/17 17:06	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/10/17 17:06	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/10/17 17:06	1
1,2,4-Trimethylbenzene	26		0.50		ug/L			03/10/17 17:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/10/17 17:06	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/10/17 17:06	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/10/17 17:06	1
1,2-Dichloroethane	ND		0.50		ug/L			03/10/17 17:06	1
1,2-Dichloropropane	ND		0.50		ug/L			03/10/17 17:06	1
1,3,5-Trimethylbenzene	5.0		0.50		ug/L			03/10/17 17:06	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/10/17 17:06	1
1,3-Dichloropropane	ND		0.50		ug/L			03/10/17 17:06	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/10/17 17:06	1
2,2-Dichloropropane	ND		0.50		ug/L			03/10/17 17:06	1
2-Butanone (MEK)	ND		50		ug/L			03/10/17 17:06	1
2-Chlorotoluene	ND		0.50		ug/L			03/10/17 17:06	1
2-Hexanone	ND		5.0		ug/L			03/10/17 17:06	1
4-Chlorotoluene	ND		0.50		ug/L			03/10/17 17:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/10/17 17:06	1
Acetone	ND		5.0		ug/L			03/10/17 17:06	1
Benzene	130		0.50		ug/L			03/10/17 17:06	1
Bromobenzene	ND		0.50		ug/L			03/10/17 17:06	1
Chlorobromomethane	ND		0.50		ug/L			03/10/17 17:06	1
Dichlorobromomethane	ND		0.50		ug/L			03/10/17 17:06	1
Bromoform	ND		0.50		ug/L			03/10/17 17:06	1
Bromomethane	ND		0.50		ug/L			03/10/17 17:06	1
Carbon disulfide	ND		0.50		ug/L			03/10/17 17:06	1
Carbon tetrachloride	ND		0.50		ug/L			03/10/17 17:06	1
Chlorobenzene	ND		0.50		ug/L			03/10/17 17:06	1
Chlorodibromomethane	ND		0.50		ug/L			03/10/17 17:06	1
Chloroethane	ND		0.50		ug/L			03/10/17 17:06	1
Chloroform	ND		0.50		ug/L			03/10/17 17:06	1
Chloromethane	ND		0.50		ug/L			03/10/17 17:06	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 17:06	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/10/17 17:06	1
Dibromomethane	ND		0.50		ug/L			03/10/17 17:06	1
Dichlorodifluoromethane	ND *		0.50		ug/L			03/10/17 17:06	1
Ethylbenzene	42		0.50		ug/L			03/10/17 17:06	1
Hexachlorobutadiene	ND		1.0		ug/L			03/10/17 17:06	1
Isopropylbenzene	3.0		1.0		ug/L			03/10/17 17:06	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/10/17 17:06	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-4R

Lab Sample ID: 720-78051-5

Date Collected: 03/03/17 10:45

Matrix: Water

Date Received: 03/03/17 14:55

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			03/10/17 17:06	1
Naphthalene	11		5.0		ug/L			03/10/17 17:06	1
n-Butylbenzene	0.87		0.50		ug/L			03/10/17 17:06	1
N-Propylbenzene	4.6		0.50		ug/L			03/10/17 17:06	1
4-Isopropyltoluene	ND		0.50		ug/L			03/10/17 17:06	1
sec-Butylbenzene	ND		0.50		ug/L			03/10/17 17:06	1
Styrene	ND		0.50		ug/L			03/10/17 17:06	1
tert-Butylbenzene	ND		0.50		ug/L			03/10/17 17:06	1
Tetrachloroethene	ND		0.50		ug/L			03/10/17 17:06	1
Toluene	27		0.50		ug/L			03/10/17 17:06	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 17:06	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/10/17 17:06	1
Trichloroethene	ND		0.50		ug/L			03/10/17 17:06	1
Trichlorofluoromethane	ND		0.50		ug/L			03/10/17 17:06	1
Vinyl chloride	ND		0.50		ug/L			03/10/17 17:06	1
Xylenes, Total	130		1.0		ug/L			03/10/17 17:06	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130					03/10/17 17:06	1
4-Bromofluorobenzene (Surr)	98		70 - 130					03/10/17 17:06	1
Dibromofluoromethane (Surr)	100		70 - 130					03/10/17 17:06	1
Toluene-d8 (Surr)	101		70 - 130					03/10/17 17:06	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130					03/10/17 17:06	1
4-Bromofluorobenzene (Surr)	98		70 - 130					03/10/17 17:06	1
Dibromofluoromethane (Surr)	100		70 - 130					03/10/17 17:06	1
Toluene-d8 (Surr)	101		70 - 130					03/10/17 17:06	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			03/03/17 23:11	1
Sulfate	40		10		mg/L			03/03/17 23:28	10
Nitrate as NO3	75		10		mg/L			03/03/17 23:28	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.1		1.0		mg/L		03/06/17 11:19	03/10/17 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND	HF	0.10		mg/L			03/06/17 15:15	1
Ammonia	0.37		0.20		mg/L		03/07/17 18:35	03/07/17 22:05	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	0.077		0.020		mg/L			03/03/17 12:03	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-5R

Date Collected: 03/03/17 11:35

Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			03/10/17 18:31	10
1,1,1-Trichloroethane	ND		5.0		ug/L			03/10/17 18:31	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			03/10/17 18:31	10
1,1,2-Trichloroethane	ND		5.0		ug/L			03/10/17 18:31	10
1,1-Dichloroethane	ND		5.0		ug/L			03/10/17 18:31	10
GRO (C4-C12)	15000		500		ug/L			03/10/17 18:31	10
1,1-Dichloroethene	ND		5.0		ug/L			03/10/17 18:31	10
1,1-Dichloropropene	ND		5.0		ug/L			03/10/17 18:31	10
1,2,3-Trichlorobenzene	ND		5.0		ug/L			03/10/17 18:31	10
1,2,3-Trichloropropane	ND		5.0		ug/L			03/10/17 18:31	10
1,2,4-Trichlorobenzene	ND		5.0		ug/L			03/10/17 18:31	10
1,2,4-Trimethylbenzene	570		5.0		ug/L			03/10/17 18:31	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			03/10/17 18:31	10
1,2-Dibromoethane (EDB)	ND		5.0		ug/L			03/10/17 18:31	10
1,2-Dichlorobenzene	ND		5.0		ug/L			03/10/17 18:31	10
1,2-Dichloroethane	ND		5.0		ug/L			03/10/17 18:31	10
1,2-Dichloropropane	ND		5.0		ug/L			03/10/17 18:31	10
1,3,5-Trimethylbenzene	140		5.0		ug/L			03/10/17 18:31	10
1,3-Dichlorobenzene	ND		5.0		ug/L			03/10/17 18:31	10
1,3-Dichloropropane	ND		5.0		ug/L			03/10/17 18:31	10
1,4-Dichlorobenzene	ND		5.0		ug/L			03/10/17 18:31	10
2,2-Dichloropropane	ND		5.0		ug/L			03/10/17 18:31	10
2-Butanone (MEK)	ND		500		ug/L			03/10/17 18:31	10
2-Chlorotoluene	ND		5.0		ug/L			03/10/17 18:31	10
2-Hexanone	ND		50		ug/L			03/10/17 18:31	10
4-Chlorotoluene	ND		5.0		ug/L			03/10/17 18:31	10
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			03/10/17 18:31	10
Acetone	ND		50		ug/L			03/10/17 18:31	10
Benzene	49		5.0		ug/L			03/10/17 18:31	10
Bromobenzene	ND		5.0		ug/L			03/10/17 18:31	10
Chlorobromomethane	ND		5.0		ug/L			03/10/17 18:31	10
Dichlorobromomethane	ND		5.0		ug/L			03/10/17 18:31	10
Bromoform	ND		5.0		ug/L			03/10/17 18:31	10
Bromomethane	ND		5.0		ug/L			03/10/17 18:31	10
Carbon disulfide	ND		5.0		ug/L			03/10/17 18:31	10
Carbon tetrachloride	ND		5.0		ug/L			03/10/17 18:31	10
Chlorobenzene	ND		5.0		ug/L			03/10/17 18:31	10
Chlorodibromomethane	ND		5.0		ug/L			03/10/17 18:31	10
Chloroethane	ND		5.0		ug/L			03/10/17 18:31	10
Chloroform	ND		5.0		ug/L			03/10/17 18:31	10
Chloromethane	ND		5.0		ug/L			03/10/17 18:31	10
cis-1,2-Dichloroethene	ND		5.0		ug/L			03/10/17 18:31	10
cis-1,3-Dichloropropene	ND		5.0		ug/L			03/10/17 18:31	10
Dibromomethane	ND		5.0		ug/L			03/10/17 18:31	10
Dichlorodifluoromethane	ND	*	5.0		ug/L			03/10/17 18:31	10
Ethylbenzene	570	F1	5.0		ug/L			03/10/17 18:31	10
Hexachlorobutadiene	ND		10		ug/L			03/10/17 18:31	10
Isopropylbenzene	53		10		ug/L			03/10/17 18:31	10
Methyl tert-butyl ether	ND		5.0		ug/L			03/10/17 18:31	10

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-5R

Lab Sample ID: 720-78051-6

Date Collected: 03/03/17 11:35

Matrix: Water

Date Received: 03/03/17 14:55

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		50		ug/L			03/10/17 18:31	10
Naphthalene	310		50		ug/L			03/10/17 18:31	10
n-Butylbenzene	17		5.0		ug/L			03/10/17 18:31	10
N-Propylbenzene	73		5.0		ug/L			03/10/17 18:31	10
4-Isopropyltoluene	ND		5.0		ug/L			03/10/17 18:31	10
sec-Butylbenzene	ND		5.0		ug/L			03/10/17 18:31	10
Styrene	ND		5.0		ug/L			03/10/17 18:31	10
tert-Butylbenzene	ND		5.0		ug/L			03/10/17 18:31	10
Tetrachloroethene	ND		5.0		ug/L			03/10/17 18:31	10
Toluene	660		5.0		ug/L			03/10/17 18:31	10
trans-1,2-Dichloroethene	ND		5.0		ug/L			03/10/17 18:31	10
trans-1,3-Dichloropropene	ND		5.0		ug/L			03/10/17 18:31	10
Trichloroethene	ND		5.0		ug/L			03/10/17 18:31	10
Trichlorofluoromethane	ND		5.0		ug/L			03/10/17 18:31	10
Vinyl chloride	ND		5.0		ug/L			03/10/17 18:31	10
Xylenes, Total	3700		10		ug/L			03/10/17 18:31	10

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130					03/10/17 18:31	10
4-Bromofluorobenzene (Surr)	99		70 - 130					03/10/17 18:31	10
Dibromofluoromethane (Surr)	100		70 - 130					03/10/17 18:31	10
Toluene-d8 (Surr)	101		70 - 130					03/10/17 18:31	10
1,2-Dichloroethane-d4 (Surr)	96		70 - 130					03/10/17 18:31	10
4-Bromofluorobenzene (Surr)	99		70 - 130					03/10/17 18:31	10
Dibromofluoromethane (Surr)	100		70 - 130					03/10/17 18:31	10
Toluene-d8 (Surr)	101		70 - 130					03/10/17 18:31	10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			03/03/17 23:45	1
Sulfate	34		10		mg/L			03/04/17 00:02	10
Nitrate as NO3	12		1.0		mg/L			03/03/17 23:45	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		03/06/17 11:19	03/10/17 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.23	HF	0.10		mg/L			03/06/17 15:15	1
Ammonia	4.8		0.20		mg/L		03/07/17 18:35	03/07/17 22:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	0.37		0.020		mg/L			03/03/17 12:03	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-7R

Date Collected: 03/03/17 12:15

Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		25		ug/L			03/10/17 06:36	50
1,1,1-Trichloroethane	ND		25		ug/L			03/10/17 06:36	50
1,1,2,2-Tetrachloroethane	ND		25		ug/L			03/10/17 06:36	50
1,1,2-Trichloroethane	ND		25		ug/L			03/10/17 06:36	50
1,1-Dichloroethane	ND		25		ug/L			03/10/17 06:36	50
GRO (C4-C12)	57000		2500		ug/L			03/10/17 06:36	50
1,1-Dichloroethene	ND		25		ug/L			03/10/17 06:36	50
1,1-Dichloropropene	ND		25		ug/L			03/10/17 06:36	50
1,2,3-Trichlorobenzene	ND		25		ug/L			03/10/17 06:36	50
1,2,3-Trichloropropane	ND		25		ug/L			03/10/17 06:36	50
1,2,4-Trichlorobenzene	ND		25		ug/L			03/10/17 06:36	50
1,2,4-Trimethylbenzene	2300		25		ug/L			03/10/17 06:36	50
1,2-Dibromo-3-Chloropropane	ND		250		ug/L			03/10/17 06:36	50
1,2-Dibromoethane (EDB)	ND		25		ug/L			03/10/17 06:36	50
1,2-Dichlorobenzene	ND		25		ug/L			03/10/17 06:36	50
1,2-Dichloroethane	ND		25		ug/L			03/10/17 06:36	50
1,2-Dichloropropane	ND		25		ug/L			03/10/17 06:36	50
1,3,5-Trimethylbenzene	620		25		ug/L			03/10/17 06:36	50
1,3-Dichlorobenzene	ND		25		ug/L			03/10/17 06:36	50
1,3-Dichloropropane	ND		25		ug/L			03/10/17 06:36	50
1,4-Dichlorobenzene	ND		25		ug/L			03/10/17 06:36	50
2,2-Dichloropropane	ND		25		ug/L			03/10/17 06:36	50
2-Butanone (MEK)	ND		2500		ug/L			03/10/17 06:36	50
2-Chlorotoluene	ND		25		ug/L			03/10/17 06:36	50
2-Hexanone	ND		250		ug/L			03/10/17 06:36	50
4-Chlorotoluene	ND		25		ug/L			03/10/17 06:36	50
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			03/10/17 06:36	50
Acetone	280		250		ug/L			03/10/17 06:36	50
Benzene	820		25		ug/L			03/10/17 06:36	50
Bromobenzene	ND		25		ug/L			03/10/17 06:36	50
Chlorobromomethane	ND		25		ug/L			03/10/17 06:36	50
Dichlorobromomethane	ND		25		ug/L			03/10/17 06:36	50
Bromoform	ND		25		ug/L			03/10/17 06:36	50
Bromomethane	ND		25		ug/L			03/10/17 06:36	50
Carbon disulfide	ND		25		ug/L			03/10/17 06:36	50
Carbon tetrachloride	ND		25		ug/L			03/10/17 06:36	50
Chlorobenzene	ND		25		ug/L			03/10/17 06:36	50
Chlorodibromomethane	ND		25		ug/L			03/10/17 06:36	50
Chloroethane	ND		25		ug/L			03/10/17 06:36	50
Chloroform	ND		25		ug/L			03/10/17 06:36	50
Chloromethane	ND		25		ug/L			03/10/17 06:36	50
cis-1,2-Dichloroethene	ND		25		ug/L			03/10/17 06:36	50
cis-1,3-Dichloropropene	ND		25		ug/L			03/10/17 06:36	50
Dibromomethane	ND		25		ug/L			03/10/17 06:36	50
Dichlorodifluoromethane	ND		25		ug/L			03/10/17 06:36	50
Ethylbenzene	870		25		ug/L			03/10/17 06:36	50
Hexachlorobutadiene	ND		50		ug/L			03/10/17 06:36	50
Isopropylbenzene	83		50		ug/L			03/10/17 06:36	50
Methyl tert-butyl ether	ND		25		ug/L			03/10/17 06:36	50

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-7R

Lab Sample ID: 720-78051-7

Date Collected: 03/03/17 12:15

Matrix: Water

Date Received: 03/03/17 14:55

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		250		ug/L			03/10/17 06:36	50
Naphthalene	550		250		ug/L			03/10/17 06:36	50
n-Butylbenzene	40		25		ug/L			03/10/17 06:36	50
N-Propylbenzene	170		25		ug/L			03/10/17 06:36	50
4-Isopropyltoluene	ND		25		ug/L			03/10/17 06:36	50
sec-Butylbenzene	ND		25		ug/L			03/10/17 06:36	50
Styrene	ND		25		ug/L			03/10/17 06:36	50
tert-Butylbenzene	ND		25		ug/L			03/10/17 06:36	50
Tetrachloroethene	ND		25		ug/L			03/10/17 06:36	50
Toluene	5800		25		ug/L			03/10/17 06:36	50
trans-1,2-Dichloroethene	ND		25		ug/L			03/10/17 06:36	50
trans-1,3-Dichloropropene	ND		25		ug/L			03/10/17 06:36	50
Trichloroethene	ND		25		ug/L			03/10/17 06:36	50
Trichlorofluoromethane	ND		25		ug/L			03/10/17 06:36	50
Vinyl chloride	ND		25		ug/L			03/10/17 06:36	50
Xylenes, Total	15000		50		ug/L			03/10/17 06:36	50

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130				03/10/17 06:36	50
4-Bromofluorobenzene (Surr)	100		70 - 130				03/10/17 06:36	50
Dibromofluoromethane (Surr)	101		70 - 130				03/10/17 06:36	50
Toluene-d8 (Surr)	100		70 - 130				03/10/17 06:36	50
1,2-Dichloroethane-d4 (Surr)	97		70 - 130				03/10/17 06:36	50
4-Bromofluorobenzene (Surr)	100		70 - 130				03/10/17 06:36	50
Dibromofluoromethane (Surr)	101		70 - 130				03/10/17 06:36	50
Toluene-d8 (Surr)	100		70 - 130				03/10/17 06:36	50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	5.7		1.0		mg/L			03/04/17 00:19	1
Sulfate	20		1.0		mg/L			03/04/17 00:19	1
Nitrate as NO3	8.6		1.0		mg/L			03/04/17 00:19	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.8		1.0		mg/L		03/06/17 11:19	03/10/17 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.27	HF	0.10		mg/L			03/06/17 15:15	1
Ammonia	2.5		0.20		mg/L		03/07/17 18:35	03/07/17 22:16	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	0.58		0.020		mg/L			03/03/17 17:43	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-413303/9
Matrix: Water
Analysis Batch: 413303

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			03/09/17 14:06	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					03/09/17 14:06	1
4-Bromofluorobenzene (Surr)	98		70 - 130					03/09/17 14:06	1
Dibromofluoromethane (Surr)	100		70 - 130					03/09/17 14:06	1
Toluene-d8 (Surr)	101		70 - 130					03/09/17 14:06	1

Lab Sample ID: LCS 490-413303/7
Matrix: Water
Analysis Batch: 413303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	917		ug/L		92	66 - 134
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	100		70 - 130				
4-Bromofluorobenzene (Surr)	102		70 - 130				
Dibromofluoromethane (Surr)	100		70 - 130				
Toluene-d8 (Surr)	99		70 - 130				

Lab Sample ID: MB 490-413304/9
Matrix: Water
Analysis Batch: 413304

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 14:06	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/09/17 14:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/09/17 14:06	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/09/17 14:06	1
1,1-Dichloroethane	ND		0.50		ug/L			03/09/17 14:06	1
1,1-Dichloroethene	ND		0.50		ug/L			03/09/17 14:06	1
1,1-Dichloropropene	ND		0.50		ug/L			03/09/17 14:06	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/09/17 14:06	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/09/17 14:06	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/09/17 14:06	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/09/17 14:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/09/17 14:06	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/09/17 14:06	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/09/17 14:06	1
1,2-Dichloroethane	ND		0.50		ug/L			03/09/17 14:06	1
1,2-Dichloropropane	ND		0.50		ug/L			03/09/17 14:06	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/09/17 14:06	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/09/17 14:06	1
1,3-Dichloropropane	ND		0.50		ug/L			03/09/17 14:06	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/09/17 14:06	1
2,2-Dichloropropane	ND		0.50		ug/L			03/09/17 14:06	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-413304/9
Matrix: Water
Analysis Batch: 413304

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		50		ug/L			03/09/17 14:06	1
2-Chlorotoluene	ND		0.50		ug/L			03/09/17 14:06	1
2-Hexanone	ND		5.0		ug/L			03/09/17 14:06	1
4-Chlorotoluene	ND		0.50		ug/L			03/09/17 14:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/09/17 14:06	1
Acetone	ND		5.0		ug/L			03/09/17 14:06	1
Benzene	ND		0.50		ug/L			03/09/17 14:06	1
Bromobenzene	ND		0.50		ug/L			03/09/17 14:06	1
Chlorobromomethane	ND		0.50		ug/L			03/09/17 14:06	1
Dichlorobromomethane	ND		0.50		ug/L			03/09/17 14:06	1
Bromoform	ND		0.50		ug/L			03/09/17 14:06	1
Bromomethane	ND		0.50		ug/L			03/09/17 14:06	1
Carbon disulfide	ND		0.50		ug/L			03/09/17 14:06	1
Carbon tetrachloride	ND		0.50		ug/L			03/09/17 14:06	1
Chlorobenzene	ND		0.50		ug/L			03/09/17 14:06	1
Chlorodibromomethane	ND		0.50		ug/L			03/09/17 14:06	1
Chloroethane	ND		0.50		ug/L			03/09/17 14:06	1
Chloroform	ND		0.50		ug/L			03/09/17 14:06	1
Chloromethane	ND		0.50		ug/L			03/09/17 14:06	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 14:06	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 14:06	1
Dibromomethane	ND		0.50		ug/L			03/09/17 14:06	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/09/17 14:06	1
Ethylbenzene	ND		0.50		ug/L			03/09/17 14:06	1
Hexachlorobutadiene	ND		1.0		ug/L			03/09/17 14:06	1
Isopropylbenzene	ND		1.0		ug/L			03/09/17 14:06	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/09/17 14:06	1
Methylene Chloride	ND		5.0		ug/L			03/09/17 14:06	1
Naphthalene	ND		5.0		ug/L			03/09/17 14:06	1
n-Butylbenzene	ND		0.50		ug/L			03/09/17 14:06	1
N-Propylbenzene	ND		0.50		ug/L			03/09/17 14:06	1
4-Isopropyltoluene	ND		0.50		ug/L			03/09/17 14:06	1
sec-Butylbenzene	ND		0.50		ug/L			03/09/17 14:06	1
Styrene	ND		0.50		ug/L			03/09/17 14:06	1
tert-Butylbenzene	ND		0.50		ug/L			03/09/17 14:06	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 14:06	1
Toluene	ND		0.50		ug/L			03/09/17 14:06	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/09/17 14:06	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 14:06	1
Trichloroethene	ND		0.50		ug/L			03/09/17 14:06	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 14:06	1
Vinyl chloride	ND		0.50		ug/L			03/09/17 14:06	1
Xylenes, Total	ND		1.0		ug/L			03/09/17 14:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		03/09/17 14:06	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/09/17 14:06	1
Dibromofluoromethane (Surr)	100		70 - 130		03/09/17 14:06	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-413304/9
Matrix: Water
Analysis Batch: 413304

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	%Recovery Qualifier	70 - 130		03/09/17 14:06	1

Lab Sample ID: LCS 490-413304/3
Matrix: Water
Analysis Batch: 413304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	18.6		ug/L		93	70 - 130
1,1,1-Trichloroethane	20.0	18.0		ug/L		90	70 - 135
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	69 - 131
1,1,2-Trichloroethane	20.0	19.3		ug/L		96	70 - 130
1,1-Dichloroethane	20.0	19.7		ug/L		98	70 - 130
1,1-Dichloroethene	20.0	20.0		ug/L		100	70 - 132
1,1-Dichloropropene	20.0	19.8		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	20.0	18.4		ug/L		92	46 - 150
1,2,3-Trichloropropane	20.0	17.1		ug/L		86	70 - 131
1,2,4-Trichlorobenzene	20.0	18.4		ug/L		92	58 - 147
1,2,4-Trimethylbenzene	20.0	20.0		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	18.4		ug/L		92	45 - 138
1,2-Dibromoethane (EDB)	20.0	18.7		ug/L		93	70 - 130
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	70 - 130
1,2-Dichloroethane	20.0	17.5		ug/L		88	70 - 130
1,2-Dichloropropane	20.0	20.2		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	20.0	20.0		ug/L		100	70 - 130
1,3-Dichlorobenzene	20.0	18.9		ug/L		94	70 - 130
1,3-Dichloropropane	20.0	19.2		ug/L		96	70 - 130
1,4-Dichlorobenzene	20.0	18.4		ug/L		92	70 - 130
2,2-Dichloropropane	20.0	18.0		ug/L		90	60 - 143
2-Butanone (MEK)	100	93.2		ug/L		93	55 - 143
2-Chlorotoluene	20.0	19.9		ug/L		99	70 - 130
2-Hexanone	100	97.8		ug/L		98	54 - 142
4-Chlorotoluene	20.0	19.6		ug/L		98	70 - 130
4-Methyl-2-pentanone (MIBK)	100	98.4		ug/L		98	60 - 137
Acetone	100	98.6		ug/L		99	39 - 150
Benzene	20.0	20.6		ug/L		103	70 - 130
Bromobenzene	20.0	20.4		ug/L		102	70 - 130
Chlorobromomethane	20.0	17.6		ug/L		88	70 - 130
Dichlorobromomethane	20.0	18.7		ug/L		93	70 - 130
Bromoform	20.0	19.1		ug/L		96	70 - 137
Bromomethane	20.0	18.2		ug/L		91	53 - 150
Carbon disulfide	20.0	20.6		ug/L		103	64 - 135
Carbon tetrachloride	20.0	18.5		ug/L		92	70 - 147
Chlorobenzene	20.0	19.4		ug/L		97	70 - 130
Chlorodibromomethane	20.0	20.0		ug/L		100	70 - 133
Chloroethane	20.0	22.8		ug/L		114	60 - 138
Chloroform	20.0	18.7		ug/L		94	70 - 130
Chloromethane	20.0	23.9		ug/L		120	33 - 150
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-413304/3

Matrix: Water

Analysis Batch: 413304

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	20.0	19.5		ug/L		97	70 - 133
Dibromomethane	20.0	18.4		ug/L		92	70 - 130
Dichlorodifluoromethane	20.0	23.1		ug/L		115	48 - 150
Ethylbenzene	20.0	19.7		ug/L		98	70 - 130
Hexachlorobutadiene	20.0	18.9		ug/L		94	70 - 138
Isopropylbenzene	20.0	19.5		ug/L		98	70 - 131
Methyl tert-butyl ether	20.0	18.4		ug/L		92	70 - 130
Methylene Chloride	20.0	19.8		ug/L		99	70 - 130
Naphthalene	20.0	18.9		ug/L		94	54 - 150
n-Butylbenzene	20.0	19.2		ug/L		96	68 - 137
N-Propylbenzene	20.0	20.9		ug/L		104	70 - 134
4-Isopropyltoluene	20.0	19.8		ug/L		99	66 - 130
sec-Butylbenzene	20.0	20.2		ug/L		101	70 - 135
Styrene	20.0	19.1		ug/L		95	70 - 130
tert-Butylbenzene	20.0	19.8		ug/L		99	70 - 130
Tetrachloroethene	20.0	19.7		ug/L		98	70 - 130
Toluene	20.0	20.1		ug/L		101	70 - 130
trans-1,2-Dichloroethene	20.0	20.1		ug/L		100	70 - 130
trans-1,3-Dichloropropene	20.0	18.3		ug/L		92	63 - 142
Trichloroethene	20.0	20.0		ug/L		100	70 - 130
Trichlorofluoromethane	20.0	19.2		ug/L		96	59 - 150
Vinyl chloride	20.0	23.3		ug/L		116	57 - 137
Xylenes, Total	40.0	39.1		ug/L		98	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 490-413304/4

Matrix: Water

Analysis Batch: 413304

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.4		ug/L		97	70 - 130	4	13
1,1,1-Trichloroethane	20.0	18.3		ug/L		92	70 - 135	2	15
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	69 - 131	0	15
1,1,2-Trichloroethane	20.0	19.8		ug/L		99	70 - 130	3	13
1,1-Dichloroethane	20.0	19.9		ug/L		100	70 - 130	1	17
1,1-Dichloroethene	20.0	20.8		ug/L		104	70 - 132	4	20
1,1-Dichloropropene	20.0	20.2		ug/L		101	70 - 130	2	16
1,2,3-Trichlorobenzene	20.0	18.8		ug/L		94	46 - 150	2	16
1,2,3-Trichloropropane	20.0	17.5		ug/L		88	70 - 131	2	14
1,2,4-Trichlorobenzene	20.0	18.6		ug/L		93	58 - 147	1	15
1,2,4-Trimethylbenzene	20.0	20.3		ug/L		101	70 - 130	1	13
1,2-Dibromo-3-Chloropropane	20.0	18.7		ug/L		94	45 - 138	2	19
1,2-Dibromoethane (EDB)	20.0	19.1		ug/L		96	70 - 130	2	13

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-413304/4

Matrix: Water

Analysis Batch: 413304

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	20.0	19.3		ug/L		97	70 - 130	2	12
1,2-Dichloroethane	20.0	17.6		ug/L		88	70 - 130	0	13
1,2-Dichloropropane	20.0	20.6		ug/L		103	70 - 130	2	15
1,3,5-Trimethylbenzene	20.0	20.4		ug/L		102	70 - 130	2	14
1,3-Dichlorobenzene	20.0	19.3		ug/L		96	70 - 130	2	13
1,3-Dichloropropane	20.0	19.7		ug/L		98	70 - 130	3	12
1,4-Dichlorobenzene	20.0	18.9		ug/L		94	70 - 130	2	12
2,2-Dichloropropane	20.0	18.7		ug/L		93	60 - 143	3	20
2-Butanone (MEK)	100	96.2		ug/L		96	55 - 143	3	19
2-Chlorotoluene	20.0	20.1		ug/L		100	70 - 130	1	15
2-Hexanone	100	101		ug/L		101	54 - 142	3	17
4-Chlorotoluene	20.0	20.3		ug/L		101	70 - 130	3	15
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101	60 - 137	2	21
Acetone	100	104		ug/L		104	39 - 150	5	23
Benzene	20.0	21.1		ug/L		106	70 - 130	3	12
Bromobenzene	20.0	20.4		ug/L		102	70 - 130	0	16
Chlorobromomethane	20.0	18.5		ug/L		92	70 - 130	5	16
Dichlorobromomethane	20.0	19.2		ug/L		96	70 - 130	3	14
Bromoform	20.0	19.6		ug/L		98	70 - 137	2	14
Bromomethane	20.0	20.0		ug/L		100	53 - 150	9	19
Carbon disulfide	20.0	21.2		ug/L		106	64 - 135	3	16
Carbon tetrachloride	20.0	19.0		ug/L		95	70 - 147	3	16
Chlorobenzene	20.0	20.0		ug/L		100	70 - 130	3	12
Chlorodibromomethane	20.0	20.6		ug/L		103	70 - 133	3	13
Chloroethane	20.0	21.8		ug/L		109	60 - 138	5	15
Chloroform	20.0	19.2		ug/L		96	70 - 130	2	14
Chloromethane	20.0	24.6		ug/L		123	33 - 150	3	20
cis-1,2-Dichloroethene	20.0	20.2		ug/L		101	70 - 130	2	15
cis-1,3-Dichloropropene	20.0	20.4		ug/L		102	70 - 133	5	15
Dibromomethane	20.0	19.0		ug/L		95	70 - 130	3	14
Dichlorodifluoromethane	20.0	23.7		ug/L		118	48 - 150	3	16
Ethylbenzene	20.0	20.3		ug/L		101	70 - 130	3	12
Hexachlorobutadiene	20.0	19.2		ug/L		96	70 - 138	2	16
Isopropylbenzene	20.0	20.3		ug/L		102	70 - 131	4	13
Methyl tert-butyl ether	20.0	18.2		ug/L		91	70 - 130	1	16
Methylene Chloride	20.0	20.4		ug/L		102	70 - 130	3	15
Naphthalene	20.0	19.1		ug/L		95	54 - 150	1	15
n-Butylbenzene	20.0	19.5		ug/L		97	68 - 137	2	14
N-Propylbenzene	20.0	21.1		ug/L		105	70 - 134	1	14
4-Isopropyltoluene	20.0	20.0		ug/L		100	66 - 130	1	13
sec-Butylbenzene	20.0	20.5		ug/L		102	70 - 135	2	14
Styrene	20.0	19.6		ug/L		98	70 - 130	3	12
tert-Butylbenzene	20.0	20.2		ug/L		101	70 - 130	2	14
Tetrachloroethene	20.0	19.9		ug/L		99	70 - 130	1	17
Toluene	20.0	20.8		ug/L		104	70 - 130	3	13
trans-1,2-Dichloroethene	20.0	20.6		ug/L		103	70 - 130	3	15
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	63 - 142	4	13
Trichloroethene	20.0	20.3		ug/L		102	70 - 130	1	14

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-413304/4
Matrix: Water
Analysis Batch: 413304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	20.0	19.6		ug/L		98	59 - 150	2	22
Vinyl chloride	20.0	23.8		ug/L		119	57 - 137	2	15
Xylenes, Total	40.0	40.7		ug/L		102	70 - 132	4	11

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: MB 490-413422/9
Matrix: Water
Analysis Batch: 413422

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			03/10/17 01:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		03/10/17 01:25	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/10/17 01:25	1
Dibromofluoromethane (Surr)	101		70 - 130		03/10/17 01:25	1
Toluene-d8 (Surr)	101		70 - 130		03/10/17 01:25	1

Lab Sample ID: LCS 490-413422/7
Matrix: Water
Analysis Batch: 413422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	925		ug/L		93	66 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: MB 490-413423/9
Matrix: Water
Analysis Batch: 413423

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 01:25	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/10/17 01:25	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 01:25	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/10/17 01:25	1
1,1-Dichloroethane	ND		0.50		ug/L			03/10/17 01:25	1
1,1-Dichloroethene	ND		0.50		ug/L			03/10/17 01:25	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-413423/9

Matrix: Water

Analysis Batch: 413423

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		0.50		ug/L			03/10/17 01:25	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/10/17 01:25	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/10/17 01:25	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/10/17 01:25	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/10/17 01:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/10/17 01:25	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/10/17 01:25	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/10/17 01:25	1
1,2-Dichloroethane	ND		0.50		ug/L			03/10/17 01:25	1
1,2-Dichloropropane	ND		0.50		ug/L			03/10/17 01:25	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/10/17 01:25	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/10/17 01:25	1
1,3-Dichloropropane	ND		0.50		ug/L			03/10/17 01:25	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/10/17 01:25	1
2,2-Dichloropropane	ND		0.50		ug/L			03/10/17 01:25	1
2-Butanone (MEK)	ND		50		ug/L			03/10/17 01:25	1
2-Chlorotoluene	ND		0.50		ug/L			03/10/17 01:25	1
2-Hexanone	ND		5.0		ug/L			03/10/17 01:25	1
4-Chlorotoluene	ND		0.50		ug/L			03/10/17 01:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/10/17 01:25	1
Acetone	ND		5.0		ug/L			03/10/17 01:25	1
Benzene	ND		0.50		ug/L			03/10/17 01:25	1
Bromobenzene	ND		0.50		ug/L			03/10/17 01:25	1
Chlorobromomethane	ND		0.50		ug/L			03/10/17 01:25	1
Dichlorobromomethane	ND		0.50		ug/L			03/10/17 01:25	1
Bromoform	ND		0.50		ug/L			03/10/17 01:25	1
Bromomethane	ND		0.50		ug/L			03/10/17 01:25	1
Carbon disulfide	ND		0.50		ug/L			03/10/17 01:25	1
Carbon tetrachloride	ND		0.50		ug/L			03/10/17 01:25	1
Chlorobenzene	ND		0.50		ug/L			03/10/17 01:25	1
Chlorodibromomethane	ND		0.50		ug/L			03/10/17 01:25	1
Chloroethane	ND		0.50		ug/L			03/10/17 01:25	1
Chloroform	ND		0.50		ug/L			03/10/17 01:25	1
Chloromethane	ND		0.50		ug/L			03/10/17 01:25	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 01:25	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/10/17 01:25	1
Dibromomethane	ND		0.50		ug/L			03/10/17 01:25	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/10/17 01:25	1
Ethylbenzene	ND		0.50		ug/L			03/10/17 01:25	1
Hexachlorobutadiene	ND		1.0		ug/L			03/10/17 01:25	1
Isopropylbenzene	ND		1.0		ug/L			03/10/17 01:25	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/10/17 01:25	1
Methylene Chloride	ND		5.0		ug/L			03/10/17 01:25	1
Naphthalene	ND		5.0		ug/L			03/10/17 01:25	1
n-Butylbenzene	ND		0.50		ug/L			03/10/17 01:25	1
N-Propylbenzene	ND		0.50		ug/L			03/10/17 01:25	1
4-Isopropyltoluene	ND		0.50		ug/L			03/10/17 01:25	1
sec-Butylbenzene	ND		0.50		ug/L			03/10/17 01:25	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-413423/9

Matrix: Water

Analysis Batch: 413423

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50		ug/L			03/10/17 01:25	1
tert-Butylbenzene	ND		0.50		ug/L			03/10/17 01:25	1
Tetrachloroethene	ND		0.50		ug/L			03/10/17 01:25	1
Toluene	ND		0.50		ug/L			03/10/17 01:25	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 01:25	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/10/17 01:25	1
Trichloroethene	ND		0.50		ug/L			03/10/17 01:25	1
Trichlorofluoromethane	ND		0.50		ug/L			03/10/17 01:25	1
Vinyl chloride	ND		0.50		ug/L			03/10/17 01:25	1
Xylenes, Total	ND		1.0		ug/L			03/10/17 01:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		03/10/17 01:25	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/10/17 01:25	1
Dibromofluoromethane (Surr)	101		70 - 130		03/10/17 01:25	1
Toluene-d8 (Surr)	101		70 - 130		03/10/17 01:25	1

Lab Sample ID: LCS 490-413423/4

Matrix: Water

Analysis Batch: 413423

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.2		ug/L		96	70 - 130
1,1,1-Trichloroethane	20.0	17.9		ug/L		90	70 - 135
1,1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	69 - 131
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	70 - 130
1,1-Dichloroethane	20.0	19.9		ug/L		100	70 - 130
1,1-Dichloroethene	20.0	20.6		ug/L		103	70 - 132
1,1-Dichloropropene	20.0	19.8		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	20.0	19.2		ug/L		96	46 - 150
1,2,3-Trichloropropane	20.0	18.4		ug/L		92	70 - 131
1,2,4-Trichlorobenzene	20.0	19.0		ug/L		95	58 - 147
1,2,4-Trimethylbenzene	20.0	20.1		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	18.6		ug/L		93	45 - 138
1,2-Dibromoethane (EDB)	20.0	19.1		ug/L		95	70 - 130
1,2-Dichlorobenzene	20.0	19.7		ug/L		98	70 - 130
1,2-Dichloroethane	20.0	17.8		ug/L		89	70 - 130
1,2-Dichloropropane	20.0	20.6		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	20.0	20.3		ug/L		102	70 - 130
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	70 - 130
1,3-Dichloropropane	20.0	20.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	20.0	19.1		ug/L		96	70 - 130
2,2-Dichloropropane	20.0	17.1		ug/L		86	60 - 143
2-Butanone (MEK)	100	96.0		ug/L		96	55 - 143
2-Chlorotoluene	20.0	20.3		ug/L		101	70 - 130
2-Hexanone	100	102		ug/L		102	54 - 142
4-Chlorotoluene	20.0	20.2		ug/L		101	70 - 130
4-Methyl-2-pentanone (MIBK)	100	100		ug/L		100	60 - 137

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-413423/4

Matrix: Water

Analysis Batch: 413423

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	105		ug/L		105	39 - 150
Benzene	20.0	20.9		ug/L		105	70 - 130
Bromobenzene	20.0	20.5		ug/L		102	70 - 130
Chlorobromomethane	20.0	18.0		ug/L		90	70 - 130
Dichlorobromomethane	20.0	19.2		ug/L		96	70 - 130
Bromoform	20.0	19.7		ug/L		99	70 - 137
Bromomethane	20.0	20.4		ug/L		102	53 - 150
Carbon disulfide	20.0	20.5		ug/L		102	64 - 135
Carbon tetrachloride	20.0	18.9		ug/L		94	70 - 147
Chlorobenzene	20.0	19.8		ug/L		99	70 - 130
Chlorodibromomethane	20.0	20.4		ug/L		102	70 - 133
Chloroethane	20.0	22.9		ug/L		114	60 - 138
Chloroform	20.0	19.1		ug/L		96	70 - 130
Chloromethane	20.0	23.4		ug/L		117	33 - 150
cis-1,2-Dichloroethene	20.0	20.1		ug/L		101	70 - 130
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	70 - 133
Dibromomethane	20.0	18.7		ug/L		93	70 - 130
Dichlorodifluoromethane	20.0	22.7		ug/L		113	48 - 150
Ethylbenzene	20.0	19.9		ug/L		100	70 - 130
Hexachlorobutadiene	20.0	19.4		ug/L		97	70 - 138
Isopropylbenzene	20.0	20.1		ug/L		101	70 - 131
Methyl tert-butyl ether	20.0	18.5		ug/L		92	70 - 130
Methylene Chloride	20.0	20.3		ug/L		102	70 - 130
Naphthalene	20.0	19.4		ug/L		97	54 - 150
n-Butylbenzene	20.0	19.6		ug/L		98	68 - 137
N-Propylbenzene	20.0	20.9		ug/L		105	70 - 134
4-Isopropyltoluene	20.0	19.9		ug/L		100	66 - 130
sec-Butylbenzene	20.0	20.3		ug/L		102	70 - 135
Styrene	20.0	19.5		ug/L		98	70 - 130
tert-Butylbenzene	20.0	20.1		ug/L		100	70 - 130
Tetrachloroethene	20.0	19.6		ug/L		98	70 - 130
Toluene	20.0	20.5		ug/L		103	70 - 130
trans-1,2-Dichloroethene	20.0	20.5		ug/L		102	70 - 130
trans-1,3-Dichloropropene	20.0	18.5		ug/L		93	63 - 142
Trichloroethene	20.0	20.0		ug/L		100	70 - 130
Trichlorofluoromethane	20.0	18.5		ug/L		93	59 - 150
Vinyl chloride	20.0	23.5		ug/L		118	57 - 137
Xylenes, Total	40.0	39.4		ug/L		99	70 - 132

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-413568/9

Matrix: Water

Analysis Batch: 413568

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			03/10/17 13:48	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130					03/10/17 13:48	1
4-Bromofluorobenzene (Surr)	99		70 - 130					03/10/17 13:48	1
Dibromofluoromethane (Surr)	101		70 - 130					03/10/17 13:48	1
Toluene-d8 (Surr)	101		70 - 130					03/10/17 13:48	1

Lab Sample ID: LCS 490-413568/7

Matrix: Water

Analysis Batch: 413568

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1000	753		ug/L		75	66 - 134
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	96		70 - 130				
4-Bromofluorobenzene (Surr)	100		70 - 130				
Dibromofluoromethane (Surr)	98		70 - 130				
Toluene-d8 (Surr)	100		70 - 130				

Lab Sample ID: MB 490-413569/9

Matrix: Water

Analysis Batch: 413569

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 13:48	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/10/17 13:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/10/17 13:48	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/10/17 13:48	1
1,1-Dichloroethane	ND		0.50		ug/L			03/10/17 13:48	1
1,1-Dichloroethene	ND		0.50		ug/L			03/10/17 13:48	1
1,1-Dichloropropene	ND		0.50		ug/L			03/10/17 13:48	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			03/10/17 13:48	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/10/17 13:48	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			03/10/17 13:48	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/10/17 13:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			03/10/17 13:48	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			03/10/17 13:48	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/10/17 13:48	1
1,2-Dichloroethane	ND		0.50		ug/L			03/10/17 13:48	1
1,2-Dichloropropane	ND		0.50		ug/L			03/10/17 13:48	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/10/17 13:48	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/10/17 13:48	1
1,3-Dichloropropane	ND		0.50		ug/L			03/10/17 13:48	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/10/17 13:48	1
2,2-Dichloropropane	ND		0.50		ug/L			03/10/17 13:48	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-413569/9
Matrix: Water
Analysis Batch: 413569

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		50		ug/L			03/10/17 13:48	1
2-Chlorotoluene	ND		0.50		ug/L			03/10/17 13:48	1
2-Hexanone	ND		5.0		ug/L			03/10/17 13:48	1
4-Chlorotoluene	ND		0.50		ug/L			03/10/17 13:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/10/17 13:48	1
Acetone	ND		5.0		ug/L			03/10/17 13:48	1
Benzene	ND		0.50		ug/L			03/10/17 13:48	1
Bromobenzene	ND		0.50		ug/L			03/10/17 13:48	1
Chlorobromomethane	ND		0.50		ug/L			03/10/17 13:48	1
Dichlorobromomethane	ND		0.50		ug/L			03/10/17 13:48	1
Bromoform	ND		0.50		ug/L			03/10/17 13:48	1
Bromomethane	ND		0.50		ug/L			03/10/17 13:48	1
Carbon disulfide	ND		0.50		ug/L			03/10/17 13:48	1
Carbon tetrachloride	ND		0.50		ug/L			03/10/17 13:48	1
Chlorobenzene	ND		0.50		ug/L			03/10/17 13:48	1
Chlorodibromomethane	ND		0.50		ug/L			03/10/17 13:48	1
Chloroethane	ND		0.50		ug/L			03/10/17 13:48	1
Chloroform	ND		0.50		ug/L			03/10/17 13:48	1
Chloromethane	ND		0.50		ug/L			03/10/17 13:48	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 13:48	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/10/17 13:48	1
Dibromomethane	ND		0.50		ug/L			03/10/17 13:48	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/10/17 13:48	1
Ethylbenzene	ND		0.50		ug/L			03/10/17 13:48	1
Hexachlorobutadiene	ND		1.0		ug/L			03/10/17 13:48	1
Isopropylbenzene	ND		1.0		ug/L			03/10/17 13:48	1
Methyl tert-butyl ether	ND		0.50		ug/L			03/10/17 13:48	1
Methylene Chloride	ND		5.0		ug/L			03/10/17 13:48	1
Naphthalene	ND		5.0		ug/L			03/10/17 13:48	1
n-Butylbenzene	ND		0.50		ug/L			03/10/17 13:48	1
N-Propylbenzene	ND		0.50		ug/L			03/10/17 13:48	1
4-Isopropyltoluene	ND		0.50		ug/L			03/10/17 13:48	1
sec-Butylbenzene	ND		0.50		ug/L			03/10/17 13:48	1
Styrene	ND		0.50		ug/L			03/10/17 13:48	1
tert-Butylbenzene	ND		0.50		ug/L			03/10/17 13:48	1
Tetrachloroethene	ND		0.50		ug/L			03/10/17 13:48	1
Toluene	ND		0.50		ug/L			03/10/17 13:48	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/10/17 13:48	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/10/17 13:48	1
Trichloroethene	ND		0.50		ug/L			03/10/17 13:48	1
Trichlorofluoromethane	ND		0.50		ug/L			03/10/17 13:48	1
Vinyl chloride	ND		0.50		ug/L			03/10/17 13:48	1
Xylenes, Total	ND		1.0		ug/L			03/10/17 13:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		03/10/17 13:48	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/10/17 13:48	1
Dibromofluoromethane (Surr)	101		70 - 130		03/10/17 13:48	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-413569/9
Matrix: Water
Analysis Batch: 413569

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	%Recovery Qualifier	70 - 130		03/10/17 13:48	1

Lab Sample ID: LCS 490-413569/3
Matrix: Water
Analysis Batch: 413569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	18.8		ug/L		94	70 - 130
1,1,1-Trichloroethane	20.0	18.3		ug/L		92	70 - 135
1,1,2,2-Tetrachloroethane	20.0	21.3		ug/L		107	69 - 131
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	70 - 130
1,1-Dichloroethane	20.0	20.2		ug/L		101	70 - 130
1,1-Dichloroethene	20.0	21.6		ug/L		108	70 - 132
1,1-Dichloropropene	20.0	20.9		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	20.0	19.1		ug/L		95	46 - 150
1,2,3-Trichloropropane	20.0	17.8		ug/L		89	70 - 131
1,2,4-Trichlorobenzene	20.0	19.3		ug/L		97	58 - 147
1,2,4-Trimethylbenzene	20.0	20.2		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	18.6		ug/L		93	45 - 138
1,2-Dibromoethane (EDB)	20.0	19.1		ug/L		95	70 - 130
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	70 - 130
1,2-Dichloroethane	20.0	18.3		ug/L		91	70 - 130
1,2-Dichloropropane	20.0	21.4		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	20.0	19.9		ug/L		100	70 - 130
1,3-Dichlorobenzene	20.0	19.5		ug/L		97	70 - 130
1,3-Dichloropropane	20.0	19.8		ug/L		99	70 - 130
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	70 - 130
2,2-Dichloropropane	20.0	19.6		ug/L		98	60 - 143
2-Butanone (MEK)	100	95.4		ug/L		95	55 - 143
2-Chlorotoluene	20.0	20.2		ug/L		101	70 - 130
2-Hexanone	100	98.9		ug/L		99	54 - 142
4-Chlorotoluene	20.0	20.0		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101	60 - 137
Acetone	100	104		ug/L		104	39 - 150
Benzene	20.0	21.3		ug/L		107	70 - 130
Bromobenzene	20.0	20.5		ug/L		103	70 - 130
Chlorobromomethane	20.0	18.5		ug/L		93	70 - 130
Dichlorobromomethane	20.0	19.7		ug/L		99	70 - 130
Bromoform	20.0	19.8		ug/L		99	70 - 137
Bromomethane	20.0	21.3		ug/L		107	53 - 150
Carbon disulfide	20.0	21.4		ug/L		107	64 - 135
Carbon tetrachloride	20.0	19.4		ug/L		97	70 - 147
Chlorobenzene	20.0	19.6		ug/L		98	70 - 130
Chlorodibromomethane	20.0	20.3		ug/L		102	70 - 133
Chloroethane	20.0	24.9		ug/L		124	60 - 138
Chloroform	20.0	19.4		ug/L		97	70 - 130
Chloromethane	20.0	27.5		ug/L		137	33 - 150
cis-1,2-Dichloroethene	20.0	20.6		ug/L		103	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-413569/3

Matrix: Water

Analysis Batch: 413569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	70 - 133
Dibromomethane	20.0	19.7		ug/L		98	70 - 130
Dichlorodifluoromethane	20.0	31.3	*	ug/L		156	48 - 150
Ethylbenzene	20.0	20.1		ug/L		101	70 - 130
Hexachlorobutadiene	20.0	19.9		ug/L		99	70 - 138
Isopropylbenzene	20.0	19.8		ug/L		99	70 - 131
Methyl tert-butyl ether	20.0	18.7		ug/L		93	70 - 130
Methylene Chloride	20.0	21.2		ug/L		106	70 - 130
Naphthalene	20.0	19.5		ug/L		98	54 - 150
n-Butylbenzene	20.0	19.9		ug/L		100	68 - 137
N-Propylbenzene	20.0	21.0		ug/L		105	70 - 134
4-Isopropyltoluene	20.0	19.9		ug/L		100	66 - 130
sec-Butylbenzene	20.0	20.4		ug/L		102	70 - 135
Styrene	20.0	19.5		ug/L		97	70 - 130
tert-Butylbenzene	20.0	20.0		ug/L		100	70 - 130
Tetrachloroethene	20.0	19.9		ug/L		99	70 - 130
Toluene	20.0	20.3		ug/L		102	70 - 130
trans-1,2-Dichloroethene	20.0	20.9		ug/L		105	70 - 130
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	63 - 142
Trichloroethene	20.0	20.1		ug/L		100	70 - 130
Trichlorofluoromethane	20.0	19.7		ug/L		99	59 - 150
Vinyl chloride	20.0	26.9		ug/L		135	57 - 137
Xylenes, Total	40.0	39.5		ug/L		99	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: LCSD 490-413569/4

Matrix: Water

Analysis Batch: 413569

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.3		ug/L		96	70 - 130	2	13
1,1,1-Trichloroethane	20.0	18.2		ug/L		91	70 - 135	1	15
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		104	69 - 131	3	15
1,1,2-Trichloroethane	20.0	19.6		ug/L		98	70 - 130	2	13
1,1-Dichloroethane	20.0	19.9		ug/L		99	70 - 130	2	17
1,1-Dichloroethene	20.0	20.6		ug/L		103	70 - 132	5	20
1,1-Dichloropropene	20.0	20.2		ug/L		101	70 - 130	3	16
1,2,3-Trichlorobenzene	20.0	19.0		ug/L		95	46 - 150	0	16
1,2,3-Trichloropropane	20.0	17.1		ug/L		86	70 - 131	4	14
1,2,4-Trichlorobenzene	20.0	19.2		ug/L		96	58 - 147	1	15
1,2,4-Trimethylbenzene	20.0	20.6		ug/L		103	70 - 130	2	13
1,2-Dibromo-3-Chloropropane	20.0	18.2		ug/L		91	45 - 138	2	19
1,2-Dibromoethane (EDB)	20.0	19.1		ug/L		96	70 - 130	0	13

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-413569/4

Matrix: Water

Analysis Batch: 413569

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	70 - 130	0	12
1,2-Dichloroethane	20.0	17.7		ug/L		89	70 - 130	3	13
1,2-Dichloropropane	20.0	20.6		ug/L		103	70 - 130	3	15
1,3,5-Trimethylbenzene	20.0	20.5		ug/L		102	70 - 130	3	14
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	70 - 130	1	13
1,3-Dichloropropane	20.0	19.3		ug/L		97	70 - 130	2	12
1,4-Dichlorobenzene	20.0	19.3		ug/L		96	70 - 130	1	12
2,2-Dichloropropane	20.0	18.9		ug/L		95	60 - 143	3	20
2-Butanone (MEK)	100	91.7		ug/L		92	55 - 143	4	19
2-Chlorotoluene	20.0	20.2		ug/L		101	70 - 130	0	15
2-Hexanone	100	95.2		ug/L		95	54 - 142	4	17
4-Chlorotoluene	20.0	20.5		ug/L		102	70 - 130	2	15
4-Methyl-2-pentanone (MIBK)	100	97.6		ug/L		98	60 - 137	3	21
Acetone	100	96.2		ug/L		96	39 - 150	8	23
Benzene	20.0	21.0		ug/L		105	70 - 130	2	12
Bromobenzene	20.0	20.7		ug/L		103	70 - 130	1	16
Chlorobromomethane	20.0	18.0		ug/L		90	70 - 130	3	16
Dichlorobromomethane	20.0	19.3		ug/L		97	70 - 130	2	14
Bromoform	20.0	19.7		ug/L		98	70 - 137	1	14
Bromomethane	20.0	20.3		ug/L		102	53 - 150	5	19
Carbon disulfide	20.0	20.9		ug/L		105	64 - 135	2	16
Carbon tetrachloride	20.0	19.2		ug/L		96	70 - 147	1	16
Chlorobenzene	20.0	19.9		ug/L		99	70 - 130	2	12
Chlorodibromomethane	20.0	20.3		ug/L		101	70 - 133	0	13
Chloroethane	20.0	24.3		ug/L		121	60 - 138	2	15
Chloroform	20.0	19.0		ug/L		95	70 - 130	2	14
Chloromethane	20.0	26.4		ug/L		132	33 - 150	4	20
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	70 - 130	4	15
cis-1,3-Dichloropropene	20.0	20.3		ug/L		101	70 - 133	1	15
Dibromomethane	20.0	18.6		ug/L		93	70 - 130	5	14
Dichlorodifluoromethane	20.0	30.6 *		ug/L		153	48 - 150	2	16
Ethylbenzene	20.0	19.9		ug/L		100	70 - 130	1	12
Hexachlorobutadiene	20.0	19.9		ug/L		100	70 - 138	0	16
Isopropylbenzene	20.0	20.0		ug/L		100	70 - 131	1	13
Methyl tert-butyl ether	20.0	17.6		ug/L		88	70 - 130	6	16
Methylene Chloride	20.0	20.7		ug/L		103	70 - 130	3	15
Naphthalene	20.0	19.1		ug/L		95	54 - 150	2	15
n-Butylbenzene	20.0	19.9		ug/L		100	68 - 137	0	14
N-Propylbenzene	20.0	21.4		ug/L		107	70 - 134	2	14
4-Isopropyltoluene	20.0	20.1		ug/L		101	66 - 130	1	13
sec-Butylbenzene	20.0	20.7		ug/L		104	70 - 135	2	14
Styrene	20.0	19.5		ug/L		97	70 - 130	0	12
tert-Butylbenzene	20.0	20.3		ug/L		101	70 - 130	1	14
Tetrachloroethene	20.0	20.0		ug/L		100	70 - 130	1	17
Toluene	20.0	20.7		ug/L		104	70 - 130	2	13
trans-1,2-Dichloroethene	20.0	20.3		ug/L		102	70 - 130	3	15
trans-1,3-Dichloropropene	20.0	18.7		ug/L		93	63 - 142	2	13
Trichloroethene	20.0	20.3		ug/L		102	70 - 130	1	14

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-413569/4
Matrix: Water
Analysis Batch: 413569

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	20.0	19.5		ug/L		97	59 - 150	1	22
Vinyl chloride	20.0	26.0		ug/L		130	57 - 137	4	15
Xylenes, Total	40.0	39.5		ug/L		99	70 - 132	0	11

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: 720-78051-6 MS
Matrix: Water
Analysis Batch: 413569

Client Sample ID: MW-5R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		200	186		ug/L		93	70 - 131
1,1,1-Trichloroethane	ND		200	179		ug/L		89	68 - 144
1,1,2,2-Tetrachloroethane	ND		200	214		ug/L		107	56 - 145
1,1,2-Trichloroethane	ND		200	197		ug/L		99	70 - 130
1,1-Dichloroethane	ND		200	198		ug/L		99	61 - 139
1,1-Dichloroethene	ND		200	200		ug/L		100	54 - 150
1,1-Dichloropropene	ND		200	199		ug/L		100	54 - 150
1,2,3-Trichlorobenzene	ND		200	189		ug/L		95	36 - 150
1,2,3-Trichloropropane	ND		200	184		ug/L		92	65 - 131
1,2,4-Trichlorobenzene	ND		200	195		ug/L		97	47 - 147
1,2,4-Trimethylbenzene	570		200	718		ug/L		72	64 - 136
1,2-Dibromo-3-Chloropropane	ND		200	190		ug/L		95	38 - 138
1,2-Dibromoethane (EDB)	ND		200	192		ug/L		96	65 - 137
1,2-Dichlorobenzene	ND		200	196		ug/L		98	70 - 130
1,2-Dichloroethane	ND		200	175		ug/L		88	64 - 136
1,2-Dichloropropane	ND		200	207		ug/L		104	67 - 130
1,3,5-Trimethylbenzene	140		200	334		ug/L		98	69 - 139
1,3-Dichlorobenzene	ND		200	199		ug/L		99	68 - 131
1,3-Dichloropropane	ND		200	198		ug/L		99	70 - 130
1,4-Dichlorobenzene	ND		200	197		ug/L		99	70 - 130
2,2-Dichloropropane	ND		200	172		ug/L		86	50 - 146
2-Butanone (MEK)	ND		1000	944		ug/L		94	50 - 143
2-Chlorotoluene	ND		200	261		ug/L		130	67 - 138
2-Hexanone	ND		1000	979		ug/L		98	44 - 150
4-Chlorotoluene	ND		200	203		ug/L		102	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		1000	989		ug/L		99	50 - 140
Acetone	ND		1000	996		ug/L		100	39 - 150
Benzene	49		200	251		ug/L		101	55 - 147
Bromobenzene	ND		200	210		ug/L		105	60 - 133
Chlorobromomethane	ND		200	178		ug/L		89	59 - 132
Dichlorobromomethane	ND		200	192		ug/L		96	70 - 140
Bromoform	ND		200	191		ug/L		96	53 - 150
Bromomethane	ND		200	198		ug/L		99	30 - 150

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-78051-6 MS

Matrix: Water

Analysis Batch: 413569

Client Sample ID: MW-5R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	ND		200	205		ug/L		103	35 - 150
Carbon tetrachloride	ND		200	182		ug/L		91	56 - 150
Chlorobenzene	ND		200	198		ug/L		99	70 - 130
Chlorodibromomethane	ND		200	203		ug/L		101	66 - 140
Chloroethane	ND		200	234		ug/L		117	58 - 141
Chloroform	ND		200	189		ug/L		95	66 - 138
Chloromethane	ND		200	260		ug/L		130	10 - 150
cis-1,2-Dichloroethene	ND		200	197		ug/L		99	68 - 131
cis-1,3-Dichloropropene	ND		200	200		ug/L		100	70 - 133
Dibromomethane	ND		200	187		ug/L		93	70 - 130
Dichlorodifluoromethane	ND	*	200	277		ug/L		139	10 - 150
Ethylbenzene	570	F1	200	689	F1	ug/L		61	65 - 139
Hexachlorobutadiene	ND		200	187		ug/L		94	61 - 141
Isopropylbenzene	53		200	249		ug/L		98	70 - 137
Methyl tert-butyl ether	ND		200	186		ug/L		93	55 - 141
Methylene Chloride	ND		200	202		ug/L		101	64 - 130
Naphthalene	310		200	518		ug/L		106	32 - 150
n-Butylbenzene	17		200	215		ug/L		99	61 - 141
N-Propylbenzene	73		200	283		ug/L		105	53 - 150
4-Isopropyltoluene	ND		200	204		ug/L		102	66 - 137
sec-Butylbenzene	ND		200	216		ug/L		108	55 - 136
Styrene	ND		200	224		ug/L		112	70 - 130
tert-Butylbenzene	ND		200	201		ug/L		100	70 - 138
Tetrachloroethene	ND		200	196		ug/L		98	57 - 138
Toluene	660		200	786		ug/L		64	64 - 136
trans-1,2-Dichloroethene	ND		200	201		ug/L		101	59 - 143
trans-1,3-Dichloropropene	ND		200	189		ug/L		94	63 - 142
Trichloroethene	ND		200	199		ug/L		100	63 - 135
Trichlorofluoromethane	ND		200	189		ug/L		94	44 - 150
Vinyl chloride	ND		200	251		ug/L		125	57 - 150
Xylenes, Total	3700		400	3710	4	ug/L		3	69 - 132

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	86		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: 720-78051-6 MSD

Matrix: Water

Analysis Batch: 413569

Client Sample ID: MW-5R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		200	189		ug/L		95	70 - 131	2	16
1,1,1-Trichloroethane	ND		200	183		ug/L		91	68 - 144	2	17
1,1,2,2-Tetrachloroethane	ND		200	211		ug/L		106	56 - 145	1	19
1,1,2-Trichloroethane	ND		200	202		ug/L		101	70 - 130	2	18
1,1-Dichloroethane	ND		200	201		ug/L		100	61 - 139	1	23

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-78051-6 MSD
Matrix: Water
Analysis Batch: 413569

Client Sample ID: MW-5R
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1-Dichloroethene	ND		200	204		ug/L		102	54 - 150	2	24
1,1-Dichloropropene	ND		200	201		ug/L		101	54 - 150	1	24
1,2,3-Trichlorobenzene	ND		200	192		ug/L		96	36 - 150	1	43
1,2,3-Trichloropropane	ND		200	175		ug/L		88	65 - 131	5	19
1,2,4-Trichlorobenzene	ND		200	192		ug/L		96	47 - 147	1	24
1,2,4-Trimethylbenzene	570		200	717		ug/L		72	64 - 136	0	18
1,2-Dibromo-3-Chloropropane	ND		200	194		ug/L		97	38 - 138	2	26
1,2-Dibromoethane (EDB)	ND		200	189		ug/L		95	65 - 137	1	21
1,2-Dichlorobenzene	ND		200	195		ug/L		98	70 - 130	1	15
1,2-Dichloroethane	ND		200	176		ug/L		88	64 - 136	0	22
1,2-Dichloropropane	ND		200	210		ug/L		105	67 - 130	1	19
1,3,5-Trimethylbenzene	140		200	332		ug/L		97	69 - 139	1	17
1,3-Dichlorobenzene	ND		200	197		ug/L		99	68 - 131	1	14
1,3-Dichloropropane	ND		200	198		ug/L		99	70 - 130	0	17
1,4-Dichlorobenzene	ND		200	196		ug/L		98	70 - 130	1	14
2,2-Dichloropropane	ND		200	171		ug/L		86	50 - 146	0	20
2-Butanone (MEK)	ND		1000	963		ug/L		96	50 - 143	2	28
2-Chlorotoluene	ND		200	254		ug/L		127	67 - 138	3	17
2-Hexanone	ND		1000	978		ug/L		98	44 - 150	0	21
4-Chlorotoluene	ND		200	204		ug/L		102	69 - 138	1	15
4-Methyl-2-pentanone (MIBK)	ND		1000	988		ug/L		99	50 - 140	0	24
Acetone	ND		1000	912		ug/L		91	39 - 150	9	28
Benzene	49		200	254		ug/L		102	55 - 147	1	22
Bromobenzene	ND		200	211		ug/L		105	60 - 133	0	18
Chlorobromomethane	ND		200	180		ug/L		90	59 - 132	1	21
Dichlorobromomethane	ND		200	194		ug/L		97	70 - 140	1	196
Bromoform	ND		200	192		ug/L		96	53 - 150	1	20
Bromomethane	ND		200	205		ug/L		103	30 - 150	4	44
Carbon disulfide	ND		200	208		ug/L		104	35 - 150	2	34
Carbon tetrachloride	ND		200	187		ug/L		93	56 - 150	2	18
Chlorobenzene	ND		200	202		ug/L		101	70 - 130	2	15
Chlorodibromomethane	ND		200	207		ug/L		104	66 - 140	2	19
Chloroethane	ND		200	236		ug/L		118	58 - 141	1	31
Chloroform	ND		200	194		ug/L		97	66 - 138	2	21
Chloromethane	ND		200	262		ug/L		131	10 - 150	1	43
cis-1,2-Dichloroethene	ND		200	198		ug/L		99	68 - 131	0	21
cis-1,3-Dichloropropene	ND		200	205		ug/L		103	70 - 133	2	19
Dibromomethane	ND		200	189		ug/L		94	70 - 130	1	19
Dichlorodifluoromethane	ND	*	200	284		ug/L		142	10 - 150	2	50
Ethylbenzene	570	F1	200	703		ug/L		68	65 - 139	2	18
Hexachlorobutadiene	ND		200	190		ug/L		95	61 - 141	1	26
Isopropylbenzene	53		200	252		ug/L		100	70 - 137	1	17
Methyl tert-butyl ether	ND		200	185		ug/L		92	55 - 141	1	24
Methylene Chloride	ND		200	211		ug/L		106	64 - 130	4	22
Naphthalene	310		200	513		ug/L		103	32 - 150	1	40
n-Butylbenzene	17		200	215		ug/L		99	61 - 141	0	17
N-Propylbenzene	73		200	282		ug/L		105	53 - 150	0	18
4-Isopropyltoluene	ND		200	206		ug/L		103	66 - 137	1	16

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-78051-6 MSD
Matrix: Water
Analysis Batch: 413569

Client Sample ID: MW-5R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		200	222		ug/L		111	55 - 136	3	50
Styrene	ND		200	227		ug/L		113	70 - 130	1	16
tert-Butylbenzene	ND		200	202		ug/L		101	70 - 138	0	17
Tetrachloroethene	ND		200	200		ug/L		100	57 - 138	2	17
Toluene	660		200	798		ug/L		69	64 - 136	1	18
trans-1,2-Dichloroethene	ND		200	203		ug/L		102	59 - 143	1	25
trans-1,3-Dichloropropene	ND		200	187		ug/L		94	63 - 142	1	18
Trichloroethene	ND		200	205		ug/L		103	63 - 135	3	17
Trichlorofluoromethane	ND		200	189		ug/L		95	44 - 150	0	32
Vinyl chloride	ND		200	252		ug/L		126	57 - 150	0	37
Xylenes, Total	3700		400	3760	4	ug/L		15	69 - 132	1	17

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	85		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-218750/4
Matrix: Water
Analysis Batch: 218750

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			03/03/17 18:00	1

Lab Sample ID: LCS 720-218750/5
Matrix: Water
Analysis Batch: 218750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.70		mg/L		97	90 - 110

Lab Sample ID: 720-78051-2 MS
Matrix: Water
Analysis Batch: 218750

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	2.4		10.0	11.6		mg/L		93	80 - 120

Lab Sample ID: 720-78051-2 MSD
Matrix: Water
Analysis Batch: 218750

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	2.4		10.0	12.1		mg/L		98	80 - 120	4	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 720-218751/4

Matrix: Water

Analysis Batch: 218751

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			03/03/17 18:00	1
Nitrate as NO3	ND		1.0		mg/L			03/03/17 18:00	1

Lab Sample ID: LCS 720-218751/5

Matrix: Water

Analysis Batch: 218751

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	10.0	10.9		mg/L		109	90 - 110
Nitrate as NO3	10.0	9.45		mg/L		95	90 - 110

Lab Sample ID: 720-78051-2 MS

Matrix: Water

Analysis Batch: 218751

Client Sample ID: MW-12

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	ND		10.0	11.0		mg/L		110	80 - 120
Nitrate as NO3	ND		10.0	9.92		mg/L		94	80 - 120

Lab Sample ID: 720-78051-2 MSD

Matrix: Water

Analysis Batch: 218751

Client Sample ID: MW-12

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as NO2	ND		10.0	11.1		mg/L		111	80 - 120	1	20
Nitrate as NO3	ND		10.0	10.1		mg/L		96	80 - 120	2	20

Lab Sample ID: MB 720-218825/4

Matrix: Water

Analysis Batch: 218825

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			03/06/17 16:16	1
Nitrate as NO3	ND		1.0		mg/L			03/06/17 16:16	1

Lab Sample ID: LCS 720-218825/5

Matrix: Water

Analysis Batch: 218825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	10.0	9.73		mg/L		97	90 - 110
Nitrate as NO3	10.0	9.43		mg/L		94	90 - 110

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-218787/1-A
Matrix: Water
Analysis Batch: 219064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		03/06/17 11:19	03/09/17 17:53	1

Lab Sample ID: LCS 720-218787/2-A
Matrix: Water
Analysis Batch: 219064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Iron	10.0	8.83		mg/L		88	85 - 115

Lab Sample ID: 720-78051-7 MS
Matrix: Water
Analysis Batch: 219113

Client Sample ID: MW-7R
Prep Type: Total/NA
Prep Batch: 218787

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Iron	2.8		10.0	12.3		mg/L		95	70 - 130

Lab Sample ID: 720-78051-7 MSD
Matrix: Water
Analysis Batch: 219113

Client Sample ID: MW-7R
Prep Type: Total/NA
Prep Batch: 218787

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Iron	2.8		10.0	12.0		mg/L		93	70 - 130	2	20

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 720-218821/10
Matrix: Water
Analysis Batch: 218821

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10		mg/L			03/06/17 15:15	1

Lab Sample ID: LCS 720-218821/11
Matrix: Water
Analysis Batch: 218821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ferrous Iron	1.00	1.05		mg/L		105	85 - 115

Lab Sample ID: LCSD 720-218821/32
Matrix: Water
Analysis Batch: 218821

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ferrous Iron	1.00	0.979		mg/L		98	85 - 115	4	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-374787/1-A
Matrix: Water
Analysis Batch: 374824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		03/07/17 18:35	03/07/17 21:05	1

Lab Sample ID: LCS 500-374787/2-A
Matrix: Water
Analysis Batch: 374824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.50	2.51		mg/L		100	80 - 120

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 720-218876/1-A
Matrix: Water
Analysis Batch: 218731

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	ND		0.020		mg/L			03/03/17 12:03	1

Lab Sample ID: LCS 720-218876/2-A
Matrix: Water
Analysis Batch: 218731

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	0.200	0.199		mg/L		99	90 - 110

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

GC/MS VOA

Analysis Batch: 413303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-1	MW-9	Total/NA	Water	8260B	
720-78051-2	MW-12	Total/NA	Water	8260B	
720-78051-3	MW-8	Total/NA	Water	8260B	
MB 490-413303/9	Method Blank	Total/NA	Water	8260B	
LCS 490-413303/7	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 413304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-1	MW-9	Total/NA	Water	8260B	
720-78051-2	MW-12	Total/NA	Water	8260B	
720-78051-3	MW-8	Total/NA	Water	8260B	
MB 490-413304/9	Method Blank	Total/NA	Water	8260B	
LCS 490-413304/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-413304/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 413422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-7	MW-7R	Total/NA	Water	8260B	
MB 490-413422/9	Method Blank	Total/NA	Water	8260B	
LCS 490-413422/7	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 413423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-7	MW-7R	Total/NA	Water	8260B	
MB 490-413423/9	Method Blank	Total/NA	Water	8260B	
LCS 490-413423/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 413568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-4	MW-11R	Total/NA	Water	8260B	
720-78051-5	MW-4R	Total/NA	Water	8260B	
720-78051-6	MW-5R	Total/NA	Water	8260B	
MB 490-413568/9	Method Blank	Total/NA	Water	8260B	
LCS 490-413568/7	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 413569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-4	MW-11R	Total/NA	Water	8260B	
720-78051-5	MW-4R	Total/NA	Water	8260B	
720-78051-6	MW-5R	Total/NA	Water	8260B	
MB 490-413569/9	Method Blank	Total/NA	Water	8260B	
LCS 490-413569/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-413569/4	Lab Control Sample Dup	Total/NA	Water	8260B	
720-78051-6 MS	MW-5R	Total/NA	Water	8260B	
720-78051-6 MSD	MW-5R	Total/NA	Water	8260B	

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

HPLC/IC

Analysis Batch: 218750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-1	MW-9	Total/NA	Water	300.0	
720-78051-2	MW-12	Total/NA	Water	300.0	
720-78051-3	MW-8	Total/NA	Water	300.0	
720-78051-4	MW-11R	Total/NA	Water	300.0	
720-78051-5	MW-4R	Total/NA	Water	300.0	
720-78051-6	MW-5R	Total/NA	Water	300.0	
720-78051-7	MW-7R	Total/NA	Water	300.0	
MB 720-218750/4	Method Blank	Total/NA	Water	300.0	
LCS 720-218750/5	Lab Control Sample	Total/NA	Water	300.0	
720-78051-2 MS	MW-12	Total/NA	Water	300.0	
720-78051-2 MSD	MW-12	Total/NA	Water	300.0	

Analysis Batch: 218751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-1	MW-9	Total/NA	Water	300.0	
720-78051-2	MW-12	Total/NA	Water	300.0	
720-78051-3	MW-8	Total/NA	Water	300.0	
720-78051-4	MW-11R	Total/NA	Water	300.0	
720-78051-5	MW-4R	Total/NA	Water	300.0	
720-78051-5	MW-4R	Total/NA	Water	300.0	
720-78051-6	MW-5R	Total/NA	Water	300.0	
720-78051-7	MW-7R	Total/NA	Water	300.0	
MB 720-218751/4	Method Blank	Total/NA	Water	300.0	
LCS 720-218751/5	Lab Control Sample	Total/NA	Water	300.0	
720-78051-2 MS	MW-12	Total/NA	Water	300.0	
720-78051-2 MSD	MW-12	Total/NA	Water	300.0	

Analysis Batch: 218825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-1	MW-9	Total/NA	Water	300.0	
MB 720-218825/4	Method Blank	Total/NA	Water	300.0	
LCS 720-218825/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 218787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-1	MW-9	Total/NA	Water	200.7	
720-78051-2	MW-12	Total/NA	Water	200.7	
720-78051-3	MW-8	Total/NA	Water	200.7	
720-78051-4	MW-11R	Total/NA	Water	200.7	
720-78051-5	MW-4R	Total/NA	Water	200.7	
720-78051-6	MW-5R	Total/NA	Water	200.7	
720-78051-7	MW-7R	Total/NA	Water	200.7	
MB 720-218787/1-A	Method Blank	Total/NA	Water	200.7	
LCS 720-218787/2-A	Lab Control Sample	Total/NA	Water	200.7	
720-78051-7 MS	MW-7R	Total/NA	Water	200.7	
720-78051-7 MSD	MW-7R	Total/NA	Water	200.7	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Metals (Continued)

Analysis Batch: 219064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-1	MW-9	Total/NA	Water	200.7 Rev 4.4	218787
720-78051-7	MW-7R	Total/NA	Water	200.7 Rev 4.4	218787
MB 720-218787/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	218787
LCS 720-218787/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	218787
720-78051-7 MS	MW-7R	Total/NA	Water	200.7 Rev 4.4	218787
720-78051-7 MSD	MW-7R	Total/NA	Water	200.7 Rev 4.4	218787

Analysis Batch: 219113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-2	MW-12	Total/NA	Water	200.7 Rev 4.4	218787
720-78051-3	MW-8	Total/NA	Water	200.7 Rev 4.4	218787
720-78051-4	MW-11R	Total/NA	Water	200.7 Rev 4.4	218787
720-78051-5	MW-4R	Total/NA	Water	200.7 Rev 4.4	218787
720-78051-6	MW-5R	Total/NA	Water	200.7 Rev 4.4	218787
720-78051-7	MW-7R	Total/NA	Water	200.7 Rev 4.4	218787
720-78051-7 MS	MW-7R	Total/NA	Water	200.7 Rev 4.4	218787
720-78051-7 MSD	MW-7R	Total/NA	Water	200.7 Rev 4.4	218787

General Chemistry

Analysis Batch: 218731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-1	MW-9	Dissolved	Water	SM 4500 P E	218876
720-78051-2	MW-12	Dissolved	Water	SM 4500 P E	218876
720-78051-3	MW-8	Dissolved	Water	SM 4500 P E	218876
720-78051-4	MW-11R	Dissolved	Water	SM 4500 P E	218876
720-78051-5	MW-4R	Dissolved	Water	SM 4500 P E	218876
720-78051-6	MW-5R	Dissolved	Water	SM 4500 P E	218876
720-78051-7	MW-7R	Dissolved	Water	SM 4500 P E	218876
MB 720-218876/1-A	Method Blank	Dissolved	Water	SM 4500 P E	218876
LCS 720-218876/2-A	Lab Control Sample	Dissolved	Water	SM 4500 P E	218876

Analysis Batch: 218821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-1	MW-9	Total/NA	Water	SM 3500 Fe B	
720-78051-2	MW-12	Total/NA	Water	SM 3500 Fe B	
720-78051-3	MW-8	Total/NA	Water	SM 3500 Fe B	
720-78051-4	MW-11R	Total/NA	Water	SM 3500 Fe B	
720-78051-5	MW-4R	Total/NA	Water	SM 3500 Fe B	
720-78051-6	MW-5R	Total/NA	Water	SM 3500 Fe B	
720-78051-7	MW-7R	Total/NA	Water	SM 3500 Fe B	
MB 720-218821/10	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 720-218821/11	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	
LCSD 720-218821/32	Lab Control Sample Dup	Total/NA	Water	SM 3500 Fe B	

Filtration Batch: 218876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-1	MW-9	Dissolved	Water	FILTRATION	
720-78051-2	MW-12	Dissolved	Water	FILTRATION	
720-78051-3	MW-8	Dissolved	Water	FILTRATION	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

General Chemistry (Continued)

Filtration Batch: 218876 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-4	MW-11R	Dissolved	Water	FILTRATION	
720-78051-5	MW-4R	Dissolved	Water	FILTRATION	
720-78051-6	MW-5R	Dissolved	Water	FILTRATION	
720-78051-7	MW-7R	Dissolved	Water	FILTRATION	
MB 720-218876/1-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 720-218876/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	

Prep Batch: 374787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-1	MW-9	Total/NA	Water	SM 4500 NH3 B	
720-78051-2	MW-12	Total/NA	Water	SM 4500 NH3 B	
720-78051-3	MW-8	Total/NA	Water	SM 4500 NH3 B	
720-78051-4	MW-11R	Total/NA	Water	SM 4500 NH3 B	
720-78051-5	MW-4R	Total/NA	Water	SM 4500 NH3 B	
720-78051-6	MW-5R	Total/NA	Water	SM 4500 NH3 B	
720-78051-7	MW-7R	Total/NA	Water	SM 4500 NH3 B	
MB 500-374787/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 500-374787/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 374824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78051-1	MW-9	Total/NA	Water	SM 4500 NH3 G	374787
720-78051-2	MW-12	Total/NA	Water	SM 4500 NH3 G	374787
720-78051-3	MW-8	Total/NA	Water	SM 4500 NH3 G	374787
720-78051-4	MW-11R	Total/NA	Water	SM 4500 NH3 G	374787
720-78051-5	MW-4R	Total/NA	Water	SM 4500 NH3 G	374787
720-78051-6	MW-5R	Total/NA	Water	SM 4500 NH3 G	374787
720-78051-7	MW-7R	Total/NA	Water	SM 4500 NH3 G	374787
MB 500-374787/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	374787
LCS 500-374787/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	374787

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-9
Date Collected: 03/03/17 08:05
Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	413303	03/09/17 17:52	NC	TAL NSH
Total/NA	Analysis	8260B		1	413304	03/09/17 17:52	NC	TAL NSH
Total/NA	Analysis	300.0		10	218750	03/03/17 19:20	ECB	TAL PLS
Total/NA	Analysis	300.0		10	218751	03/03/17 19:20	ECB	TAL PLS
Total/NA	Analysis	300.0		1	218825	03/07/17 01:19	ECB	TAL PLS
Total/NA	Prep	200.7			218787	03/06/17 11:19	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	219064	03/09/17 18:40	ASB	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	218821	03/06/17 15:15	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			374787	03/07/17 18:35	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	374824	03/07/17 21:53	HMW	TAL CHI
Dissolved	Analysis	SM 4500 P E		1	218731	03/03/17 12:03	ECB	TAL PLS
Dissolved	Filtration	FILTRATION			218876	03/03/17 14:41	ECB	TAL PLS

Client Sample ID: MW-12
Date Collected: 03/03/17 08:55
Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	413303	03/09/17 18:49	NC	TAL NSH
Total/NA	Analysis	8260B		10	413304	03/09/17 18:49	NC	TAL NSH
Total/NA	Analysis	300.0		1	218750	03/03/17 19:37	ECB	TAL PLS
Total/NA	Analysis	300.0		1	218751	03/03/17 19:37	ECB	TAL PLS
Total/NA	Prep	200.7			218787	03/06/17 11:19	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	219113	03/10/17 12:59	ASB	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	218821	03/06/17 15:15	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			374787	03/07/17 18:35	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	374824	03/07/17 21:56	HMW	TAL CHI
Dissolved	Analysis	SM 4500 P E		1	218731	03/03/17 12:03	ECB	TAL PLS
Dissolved	Filtration	FILTRATION			218876	03/03/17 14:41	ECB	TAL PLS

Client Sample ID: MW-8
Date Collected: 03/03/17 09:25
Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	413303	03/09/17 18:21	NC	TAL NSH
Total/NA	Analysis	8260B		1	413304	03/09/17 18:21	NC	TAL NSH
Total/NA	Analysis	300.0		1	218751	03/03/17 22:02	ECB	TAL PLS
Total/NA	Analysis	300.0		10	218750	03/03/17 22:19	ECB	TAL PLS
Total/NA	Prep	200.7			218787	03/06/17 11:19	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	219113	03/10/17 13:04	ASB	TAL PLS

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-8

Date Collected: 03/03/17 09:25

Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 3500 Fe B		1	218821	03/06/17 15:15	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			374787	03/07/17 18:35	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	374824	03/07/17 21:59	HMW	TAL CHI
Dissolved	Analysis	SM 4500 P E		1	218731	03/03/17 12:03	ECB	TAL PLS
Dissolved	Filtration	FILTRATION			218876	03/03/17 14:41	ECB	TAL PLS

Client Sample ID: MW-11R

Date Collected: 03/03/17 10:10

Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	413568	03/10/17 17:34	MJH	TAL NSH
Total/NA	Analysis	8260B		5	413569	03/10/17 17:34	AK1	TAL NSH
Total/NA	Analysis	300.0		1	218751	03/03/17 22:37	ECB	TAL PLS
Total/NA	Analysis	300.0		10	218750	03/03/17 22:54	ECB	TAL PLS
Total/NA	Prep	200.7			218787	03/06/17 11:19	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	219113	03/10/17 13:10	ASB	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	218821	03/06/17 15:15	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			374787	03/07/17 18:35	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	374824	03/07/17 22:02	HMW	TAL CHI
Dissolved	Analysis	SM 4500 P E		1	218731	03/03/17 12:03	ECB	TAL PLS
Dissolved	Filtration	FILTRATION			218876	03/03/17 14:41	ECB	TAL PLS

Client Sample ID: MW-4R

Date Collected: 03/03/17 10:45

Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	413568	03/10/17 17:06	MJH	TAL NSH
Total/NA	Analysis	8260B		1	413569	03/10/17 17:06	AK1	TAL NSH
Total/NA	Analysis	300.0		1	218751	03/03/17 23:11	ECB	TAL PLS
Total/NA	Analysis	300.0		10	218750	03/03/17 23:28	ECB	TAL PLS
Total/NA	Analysis	300.0		10	218751	03/03/17 23:28	ECB	TAL PLS
Total/NA	Prep	200.7			218787	03/06/17 11:19	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	219113	03/10/17 13:15	ASB	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	218821	03/06/17 15:15	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			374787	03/07/17 18:35	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	374824	03/07/17 22:05	HMW	TAL CHI
Dissolved	Analysis	SM 4500 P E		1	218731	03/03/17 12:03	ECB	TAL PLS
Dissolved	Filtration	FILTRATION			218876	03/03/17 14:41	ECB	TAL PLS

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Client Sample ID: MW-5R

Date Collected: 03/03/17 11:35

Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	413568	03/10/17 18:31	MJH	TAL NSH
Total/NA	Analysis	8260B		10	413569	03/10/17 18:31	AK1	TAL NSH
Total/NA	Analysis	300.0		1	218751	03/03/17 23:45	ECB	TAL PLS
Total/NA	Analysis	300.0		10	218750	03/04/17 00:02	ECB	TAL PLS
Total/NA	Prep	200.7			218787	03/06/17 11:19	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	219113	03/10/17 13:20	ASB	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	218821	03/06/17 15:15	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			374787	03/07/17 18:35	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	374824	03/07/17 22:13	HMW	TAL CHI
Dissolved	Analysis	SM 4500 P E		1	218731	03/03/17 12:03	ECB	TAL PLS
Dissolved	Filtration	FILTRATION			218876	03/03/17 14:41	ECB	TAL PLS

Client Sample ID: MW-7R

Date Collected: 03/03/17 12:15

Date Received: 03/03/17 14:55

Lab Sample ID: 720-78051-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	413422	03/10/17 06:36	AK1	TAL NSH
Total/NA	Analysis	8260B		50	413423	03/10/17 06:36	AK1	TAL NSH
Total/NA	Analysis	300.0		1	218750	03/04/17 00:19	ECB	TAL PLS
Total/NA	Analysis	300.0		1	218751	03/04/17 00:19	ECB	TAL PLS
Total/NA	Prep	200.7			218787	03/06/17 11:19	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	219064	03/09/17 19:33	ASB	TAL PLS
Total/NA	Prep	200.7			218787	03/06/17 11:19	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	219113	03/10/17 13:36	ASB	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	218821	03/06/17 15:15	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			374787	03/07/17 18:35	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	374824	03/07/17 22:16	HMW	TAL CHI
Dissolved	Filtration	FILTRATION			218876	03/03/17 14:41	ECB	TAL PLS
Dissolved	Analysis	SM 4500 P E		1	218731	03/03/17 17:43	ECB	TAL PLS

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
 TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177
 TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Laboratory: TestAmerica Pleasanton

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-18

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2903	04-30-18
Georgia	State Program	4	N/A	04-30-17 *
Georgia	State Program	4	939	04-30-17 *
Hawaii	State Program	9	N/A	04-30-17 *
Illinois	NELAP	5	100201	04-30-17 *
Indiana	State Program	5	C-IL-02	04-30-17 *
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	10-31-17
Kentucky (UST)	State Program	4	66	04-30-17 *
Mississippi	State Program	4	N/A	04-30-17 *
New York	NELAP	2	12019	04-01-17 *
North Carolina (WW/SW)	State Program	4	291	12-31-17
North Dakota	State Program	8	R-194	04-30-17 *
Oklahoma	State Program	6	8908	08-31-17
South Carolina	State Program	4	77001	06-30-17
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-17
Wyoming	State Program	8	8TMS-Q	04-30-17 *

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	07-24-17
Arizona	State Program	9	AZ0473	05-05-17
Arkansas DEQ	State Program	6	88-0737	04-25-17
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-17
Georgia	State Program	4	N/A	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-17
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-17
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-17
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-17
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Pleasanton

Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Laboratory: TestAmerica Nashville (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-17
New York	NELAP	2	11342	03-31-17
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-17
Ohio VAP	State Program	5	CL0033	07-10-17
Oklahoma	State Program	6	9412	08-31-17
Oregon	NELAP	10	TN200001	04-27-17
Pennsylvania	NELAP	3	68-00585	06-30-17
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-18-17 *
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-17 *
Texas	NELAP	6	T104704077	08-31-17
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17
Virginia	NELAP	3	460152	06-14-17
Washington	State Program	10	C789	07-19-17
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-17
Wyoming (UST)	A2LA	8	453.07	12-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Pleasanton

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL PLS
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PLS
SM 3500 Fe B	Iron, Ferrous	SM	TAL PLS
SM 4500 NH3 G	Ammonia	SM	TAL CHI
SM 4500 P E	Orthophosphate	SM	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78051-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-78051-1	MW-9	Water	03/03/17 08:05	03/03/17 14:55
720-78051-2	MW-12	Water	03/03/17 08:55	03/03/17 14:55
720-78051-3	MW-8	Water	03/03/17 09:25	03/03/17 14:55
720-78051-4	MW-11R	Water	03/03/17 10:10	03/03/17 14:55
720-78051-5	MW-4R	Water	03/03/17 10:45	03/03/17 14:55
720-78051-6	MW-5R	Water	03/03/17 11:35	03/03/17 14:55
720-78051-7	MW-7R	Water	03/03/17 12:15	03/03/17 14:55



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-78051

Chain of Custody Record
174467

3.3.17
3.8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact

Regulatory Program: DW NPDES RCRA Other:

TestAmerica Laboratories, Inc.

Ninyo & Moore

Project Manager: ~~Kris Larsen~~ Peter Smith

Site Contact: Asha Turman

Date: 3.3.17

COC No: 1 of 1 COCs

1956 Webster Street, #400

Tel/Fax: 510.343.3000

Lab Contact: Paloma Duong

Printer: M

Sampler: ALT

Oakland/CA 94612

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS

TPHg, EPA Method 8021

TPHg + VOCs; EPA 8260

For Lab Use Only:
Walk-In Client:
Lab Sampling:

510-343-3000 Phone
Project Name: ~~2117 2nd Street Stockpile CHUM~~

TAT if different from Below: 2 days
 1 week
 2 days
 1 day

TPHg + VOCs; EPA 8260

Nitrogen, Ammonia, SM

Job / SDG No.

P.O. # 402234014 401896000

Sample Identification	Sample Date	Sample Time	Sample Type (G-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Lead; EPA Method 6010C	CAM 17 Metals; EPA Method 6010C	TPHg; EPA Method 8021	TPHg d.mo; EPA Method 8015M	TPHg + VOCs; EPA 8260	Nitrogen, Ammonia, SM	4500-NH3 D	Nitrate & Nitrite; EPA	Ferrous Iron; SM 3500	Iron; EPA 200.7	4500-OP OR Phosph	at P; 300 OR G FMS
MW-9	3.3.17	805		W	10														
MW-12	3.3.17	855		W	10														
MW-8	3.3.17	925		W	10														
MW-11R	3.3.17	1010		W	10														
MW-4R	3.3.17	1045		W	10														
MW-5R	3.3.17	1135		W	10														
MW-7R	3.3.17	1215		W	10														
	3.3.17																		

Sample Identification	Sample Date	Sample Time	Sample Type (G-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Lead; EPA Method 6010C	CAM 17 Metals; EPA Method 6010C	TPHg; EPA Method 8021	TPHg d.mo; EPA Method 8015M	TPHg + VOCs; EPA 8260	Nitrogen, Ammonia, SM	4500-NH3 D	Nitrate & Nitrite; EPA	Ferrous Iron; SM 3500	Iron; EPA 200.7	4500-OP OR Phosph	at P; 300 OR G FMS	
MW-9	3.3.17	805		W	10															
MW-12	3.3.17	855		W	10															
MW-8	3.3.17	925		W	10															
MW-11R	3.3.17	1010		W	10															
MW-4R	3.3.17	1045		W	10															
MW-5R	3.3.17	1135		W	10															
MW-7R	3.3.17	1215		W	10															
	3.3.17																			

Sample Identification	Sample Date	Sample Time	Sample Type (G-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Lead; EPA Method 6010C	CAM 17 Metals; EPA Method 6010C	TPHg; EPA Method 8021	TPHg d.mo; EPA Method 8015M	TPHg + VOCs; EPA 8260	Nitrogen, Ammonia, SM	4500-NH3 D	Nitrate & Nitrite; EPA	Ferrous Iron; SM 3500	Iron; EPA 200.7	4500-OP OR Phosph	at P; 300 OR G FMS	
MW-9	3.3.17	805		W	10															
MW-12	3.3.17	855		W	10															
MW-8	3.3.17	925		W	10															
MW-11R	3.3.17	1010		W	10															
MW-4R	3.3.17	1045		W	10															
MW-5R	3.3.17	1135		W	10															
MW-7R	3.3.17	1215		W	10															
	3.3.17																			

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments: Please composite samples COMP 1A, COMP 1B, COMP 1C and COMP 1D into one composite sample, COMP 1.

720-78051 Chain of Custody

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Dispose by Lab Archive for Months

Cooler Temp. (°C): Obs'd: 3.8

Received by: LC Company: TA Date/Time: 3/3/17 1330

Received in Laboratory by: LC Company: TA Date/Time: 3/3/17 1455

Relinquished by: LC Company: TA Date/Time: 3/3/17 1455

Relinquished by: LC Company: TA Date/Time: 3/3/17 1455

VOA 102
COOLER RECEIPT FORM



720-78051 Chain of Custody

Cooler Received/Opened On 3/8/2017 @ 0935
Time Samples Removed From Cooler 1553 Time Samples Placed In Storage 81737 (2 Hour Window)

1. Tracking # 8828 (last 4 digits, FedEx) Courier: FedEx
IR Gun ID 160406069 pH Strip Lot NA Chlorine Strip Lot NA

2. Temperature of rep. sample or temp blank when opened: 5.9 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES NO...NA

6. Were custody papers inside cooler? YES NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [Signature]

7. Were custody seals on containers: YES NO and Intact YES NO...NA

Were these signed and dated correctly? YES NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO...NA

12. Did all container labels and tags agree with custody papers? YES NO...NA

13a. Were VOA vials received? YES NO...NA

b. Was there any observable headspace present in any VOA vial? YES NO...NA

14. Was there a Trip Blank in this cooler? YES NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO...NA

16. Was residual chlorine present? YES NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES NO...NA

18. Did you sign the custody papers in the appropriate place? YES NO...NA

19. Were correct containers used for the analysis requested? YES NO...NA

20. Was sufficient amount of sample sent in each container? YES NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO...# _____

TestAmerica Pleasanton

1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

720-78051

TestAmerica
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COC No:
720-32921-1

Page:
Page 1 of 1

Job #:
720-78051-1

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDTA
M - Hexane
N - None
O - AsNB02
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecanhydrate
U - Acetone
V - MCAA
W - pH 4.5
Z - other (specify)

Client Information (Sub Contract Lab)

Client Contact: _____
Shipping/Receiving: _____
Company: _____
Address: _____
City: _____
State, Zip: _____
Phone: _____
Email: _____

Sampler: _____
Phone: _____

Lab P/N: _____
Duong, Paloma R
E-Mail: paloma.duong@testamericainc.com

Accreditations Required (See note):
State Program - California

Due Date Requested: 3/9/2017
TAT Requested (days): _____

Analysis Requested

Project Name: Chum
Project #: 72010606
SSOW#: _____
PO #: _____
W/O #: _____

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Sediment, Soil, Sludge, Air, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
MMW-9 (720-78051-1)	3/3/17	08:05	Pacific	Water	X	X	3	
MMW-12 (720-78051-2)	3/3/17	08:55	Pacific	Water	X	X	3	
MMW-8 (720-78051-3)	3/3/17	09:25	Pacific	Water	X	X	3	
MMW-11R (720-78051-4)	3/3/17	10:10	Pacific	Water	X	X	3	
MMW-4R (720-78051-5)	3/3/17	10:45	Pacific	Water	X	X	3	
MMW-5R (720-78051-6)	3/3/17	11:35	Pacific	Water	X	X	3	
MMW-7R (720-78051-7)	3/3/17	12:15	Pacific	Water	X	X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other institutions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify) _____
Primary/Deliverable Rank: 2
Special Instructions/QC Requirements: _____

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____
Relinquished by: _____ Date/Time: _____ Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____
Custody Seals Intact: Yes No
Custody Seal No.: _____
Cooler Temperature(s) °C and Other Remarks: 59

Received by: _____ Date/Time: _____ Company: _____
Received by: _____ Date/Time: _____ Company: _____

TestAmerica Pleasanton

1220 Quarry Lane
 Pleasanton, CA 94566
 Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:			
Client Contact:		Phone:		E-Mail:		State of Origin:		Page:			
Shipping/Receiving				paloma.duong@testamericainc.com		California		Page 1 of 1			
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note): State Program - California				Job #: 720-78051-1			
Address: 2417 Bond Street,		Due Date Requested: 3/9/2017		Analysis Requested						Preservation Codes: A - HCL M - Hexano B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
City: University Park		TAT Requested (days):									
State, Zip: IL, 60484		PO #:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) SM4500NH3_G/SM4500NH3_B Ammonia		Total Number of Containers		Other:			
Phone: 708-534-5200(Tel) 708-534-5211(Fax)		WO #:									
Email:		Project #: 720-78051 COC		Project #: 72010606		SSOW#:					
Project Name: Chun		Site:									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500NH3_G/SM4500NH3_B Ammonia	Total Number of Containers	Special Instructions/Note:	
				Preservation Code:		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
MW-9 (720-78051-1)		3/3/17	08:05 Pacific		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1		
MW-12 (720-78051-2)		3/3/17	08:55 Pacific		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1		
MW-8 (720-78051-3)		3/3/17	09:25 Pacific		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1		
MW-11R (720-78051-4)		3/3/17	10:10 Pacific		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1		
MW-4R (720-78051-5)		3/3/17	10:45 Pacific		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1		
MW-5R (720-78051-6)		3/3/17	11:35 Pacific		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1		
MW-7R (720-78051-7)		3/3/17	12:15 Pacific		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Primary Deliverable Rank: 2			

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 3/6/17 1525		Company: <i>[Signature]</i>		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Date/Time: 03/07/17 1025	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Date/Time:	

Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: -19	
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Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-78051-1

Login Number: 78051
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-78051-1

Login Number: 78051
List Number: 2
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago
List Creation: 03/07/17 11:27 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-78051-1

Login Number: 78051
List Number: 3
Creator: Vest, Laura E

List Source: TestAmerica Nashville
List Creation: 03/08/17 04:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-78572-1
Client Project/Site: Chun

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:
4/6/2017 5:15:54 PM

Paloma Duong, Project Manager I
(925)484-1919
paloma.duong@testamericainc.com

LINKS

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results through
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Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	12
QC Association Summary	21
Lab Chronicle	22
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	27

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Job ID: 720-78572-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-78572-1

Comments

No additional comments.

Receipt

The samples were received on 3/29/2017 2:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2° C.

GC/MS VOA

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 720-220606 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Client Sample ID: EFF

Lab Sample ID: 720-78572-1

No Detections.

Client Sample ID: GAC

Lab Sample ID: 720-78572-2

No Detections.

Client Sample ID: INF

Lab Sample ID: 720-78572-3

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Client Sample ID: EFF
Date Collected: 03/29/17 11:40
Date Received: 03/29/17 14:25

Lab Sample ID: 720-78572-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			04/05/17 12:01	1
Acetone	ND		50		ug/L			04/05/17 12:01	1
Benzene	ND		0.50		ug/L			04/05/17 12:01	1
Dichlorobromomethane	ND		0.50		ug/L			04/05/17 12:01	1
Bromobenzene	ND		1.0		ug/L			04/05/17 12:01	1
Chlorobromomethane	ND		1.0		ug/L			04/05/17 12:01	1
Bromoform	ND		1.0		ug/L			04/05/17 12:01	1
Bromomethane	ND		1.0		ug/L			04/05/17 12:01	1
2-Butanone (MEK)	ND		50		ug/L			04/05/17 12:01	1
n-Butylbenzene	ND		1.0		ug/L			04/05/17 12:01	1
sec-Butylbenzene	ND		1.0		ug/L			04/05/17 12:01	1
tert-Butylbenzene	ND		1.0		ug/L			04/05/17 12:01	1
Carbon disulfide	ND		5.0		ug/L			04/05/17 12:01	1
Carbon tetrachloride	ND		0.50		ug/L			04/05/17 12:01	1
Chlorobenzene	ND		0.50		ug/L			04/05/17 12:01	1
Chloroethane	ND		1.0		ug/L			04/05/17 12:01	1
Chloroform	ND		1.0		ug/L			04/05/17 12:01	1
Chloromethane	ND		1.0		ug/L			04/05/17 12:01	1
2-Chlorotoluene	ND		0.50		ug/L			04/05/17 12:01	1
4-Chlorotoluene	ND		0.50		ug/L			04/05/17 12:01	1
Chlorodibromomethane	ND		0.50		ug/L			04/05/17 12:01	1
1,2-Dichlorobenzene	ND		0.50		ug/L			04/05/17 12:01	1
1,3-Dichlorobenzene	ND		0.50		ug/L			04/05/17 12:01	1
1,4-Dichlorobenzene	ND		0.50		ug/L			04/05/17 12:01	1
1,3-Dichloropropane	ND		1.0		ug/L			04/05/17 12:01	1
1,1-Dichloropropene	ND		0.50		ug/L			04/05/17 12:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			04/05/17 12:01	1
Ethylene Dibromide	ND		0.50		ug/L			04/05/17 12:01	1
Dibromomethane	ND		0.50		ug/L			04/05/17 12:01	1
Dichlorodifluoromethane	ND		0.50		ug/L			04/05/17 12:01	1
1,1-Dichloroethane	ND		0.50		ug/L			04/05/17 12:01	1
1,2-Dichloroethane	ND		0.50		ug/L			04/05/17 12:01	1
1,1-Dichloroethene	ND		0.50		ug/L			04/05/17 12:01	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			04/05/17 12:01	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			04/05/17 12:01	1
1,2-Dichloropropane	ND		0.50		ug/L			04/05/17 12:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/05/17 12:01	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			04/05/17 12:01	1
Ethylbenzene	ND		0.50		ug/L			04/05/17 12:01	1
Hexachlorobutadiene	ND		1.0		ug/L			04/05/17 12:01	1
2-Hexanone	ND		50		ug/L			04/05/17 12:01	1
Isopropylbenzene	ND		0.50		ug/L			04/05/17 12:01	1
4-Isopropyltoluene	ND		1.0		ug/L			04/05/17 12:01	1
Methylene Chloride	ND		5.0		ug/L			04/05/17 12:01	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/05/17 12:01	1
Naphthalene	ND		1.0		ug/L			04/05/17 12:01	1
N-Propylbenzene	ND		1.0		ug/L			04/05/17 12:01	1
Styrene	ND		0.50		ug/L			04/05/17 12:01	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/05/17 12:01	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Client Sample ID: EFF
Date Collected: 03/29/17 11:40
Date Received: 03/29/17 14:25

Lab Sample ID: 720-78572-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/05/17 12:01	1
Tetrachloroethene	ND		0.50		ug/L			04/05/17 12:01	1
Toluene	ND		0.50		ug/L			04/05/17 12:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/05/17 12:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/05/17 12:01	1
1,1,1-Trichloroethane	ND		0.50		ug/L			04/05/17 12:01	1
1,1,2-Trichloroethane	ND		0.50		ug/L			04/05/17 12:01	1
Trichloroethene	ND		0.50		ug/L			04/05/17 12:01	1
Trichlorofluoromethane	ND		1.0		ug/L			04/05/17 12:01	1
1,2,3-Trichloropropane	ND		0.50		ug/L			04/05/17 12:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			04/05/17 12:01	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			04/05/17 12:01	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			04/05/17 12:01	1
Vinyl acetate	ND		10		ug/L			04/05/17 12:01	1
Vinyl chloride	ND		0.50		ug/L			04/05/17 12:01	1
Xylenes, Total	ND		1.0		ug/L			04/05/17 12:01	1
2,2-Dichloropropane	ND		0.50		ug/L			04/05/17 12:01	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			04/05/17 12:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		67 - 130					04/05/17 12:01	1
1,2-Dichloroethane-d4 (Surr)	97		72 - 130					04/05/17 12:01	1
Toluene-d8 (Surr)	102		70 - 130					04/05/17 12:01	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Client Sample ID: GAC

Date Collected: 03/29/17 11:44

Date Received: 03/29/17 14:25

Lab Sample ID: 720-78572-2

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			04/05/17 12:31	1
Acetone	ND		50		ug/L			04/05/17 12:31	1
Benzene	ND		0.50		ug/L			04/05/17 12:31	1
Dichlorobromomethane	ND		0.50		ug/L			04/05/17 12:31	1
Bromobenzene	ND		1.0		ug/L			04/05/17 12:31	1
Chlorobromomethane	ND		1.0		ug/L			04/05/17 12:31	1
Bromoform	ND		1.0		ug/L			04/05/17 12:31	1
Bromomethane	ND		1.0		ug/L			04/05/17 12:31	1
2-Butanone (MEK)	ND		50		ug/L			04/05/17 12:31	1
n-Butylbenzene	ND		1.0		ug/L			04/05/17 12:31	1
sec-Butylbenzene	ND		1.0		ug/L			04/05/17 12:31	1
tert-Butylbenzene	ND		1.0		ug/L			04/05/17 12:31	1
Carbon disulfide	ND		5.0		ug/L			04/05/17 12:31	1
Carbon tetrachloride	ND		0.50		ug/L			04/05/17 12:31	1
Chlorobenzene	ND		0.50		ug/L			04/05/17 12:31	1
Chloroethane	ND		1.0		ug/L			04/05/17 12:31	1
Chloroform	ND		1.0		ug/L			04/05/17 12:31	1
Chloromethane	ND		1.0		ug/L			04/05/17 12:31	1
2-Chlorotoluene	ND		0.50		ug/L			04/05/17 12:31	1
4-Chlorotoluene	ND		0.50		ug/L			04/05/17 12:31	1
Chlorodibromomethane	ND		0.50		ug/L			04/05/17 12:31	1
1,2-Dichlorobenzene	ND		0.50		ug/L			04/05/17 12:31	1
1,3-Dichlorobenzene	ND		0.50		ug/L			04/05/17 12:31	1
1,4-Dichlorobenzene	ND		0.50		ug/L			04/05/17 12:31	1
1,3-Dichloropropane	ND		1.0		ug/L			04/05/17 12:31	1
1,1-Dichloropropane	ND		0.50		ug/L			04/05/17 12:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			04/05/17 12:31	1
Ethylene Dibromide	ND		0.50		ug/L			04/05/17 12:31	1
Dibromomethane	ND		0.50		ug/L			04/05/17 12:31	1
Dichlorodifluoromethane	ND		0.50		ug/L			04/05/17 12:31	1
1,1-Dichloroethane	ND		0.50		ug/L			04/05/17 12:31	1
1,2-Dichloroethane	ND		0.50		ug/L			04/05/17 12:31	1
1,1-Dichloroethene	ND		0.50		ug/L			04/05/17 12:31	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			04/05/17 12:31	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			04/05/17 12:31	1
1,2-Dichloropropane	ND		0.50		ug/L			04/05/17 12:31	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/05/17 12:31	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			04/05/17 12:31	1
Ethylbenzene	ND		0.50		ug/L			04/05/17 12:31	1
Hexachlorobutadiene	ND		1.0		ug/L			04/05/17 12:31	1
2-Hexanone	ND		50		ug/L			04/05/17 12:31	1
Isopropylbenzene	ND		0.50		ug/L			04/05/17 12:31	1
4-Isopropyltoluene	ND		1.0		ug/L			04/05/17 12:31	1
Methylene Chloride	ND		5.0		ug/L			04/05/17 12:31	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/05/17 12:31	1
Naphthalene	ND		1.0		ug/L			04/05/17 12:31	1
N-Propylbenzene	ND		1.0		ug/L			04/05/17 12:31	1
Styrene	ND		0.50		ug/L			04/05/17 12:31	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/05/17 12:31	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Client Sample ID: GAC

Lab Sample ID: 720-78572-2

Date Collected: 03/29/17 11:44

Matrix: Water

Date Received: 03/29/17 14:25

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/05/17 12:31	1
Tetrachloroethene	ND		0.50		ug/L			04/05/17 12:31	1
Toluene	ND		0.50		ug/L			04/05/17 12:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/05/17 12:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/05/17 12:31	1
1,1,1-Trichloroethane	ND		0.50		ug/L			04/05/17 12:31	1
1,1,2-Trichloroethane	ND		0.50		ug/L			04/05/17 12:31	1
Trichloroethene	ND		0.50		ug/L			04/05/17 12:31	1
Trichlorofluoromethane	ND		1.0		ug/L			04/05/17 12:31	1
1,2,3-Trichloropropane	ND		0.50		ug/L			04/05/17 12:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			04/05/17 12:31	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			04/05/17 12:31	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			04/05/17 12:31	1
Vinyl acetate	ND		10		ug/L			04/05/17 12:31	1
Vinyl chloride	ND		0.50		ug/L			04/05/17 12:31	1
Xylenes, Total	ND		1.0		ug/L			04/05/17 12:31	1
2,2-Dichloropropane	ND		0.50		ug/L			04/05/17 12:31	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			04/05/17 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		67 - 130		04/05/17 12:31	1
1,2-Dichloroethane-d4 (Surr)	102		72 - 130		04/05/17 12:31	1
Toluene-d8 (Surr)	101		70 - 130		04/05/17 12:31	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Client Sample ID: INF

Date Collected: 03/29/17 11:42

Date Received: 03/29/17 14:25

Lab Sample ID: 720-78572-3

Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			04/05/17 14:01	1
Acetone	ND		50		ug/L			04/05/17 14:01	1
Benzene	ND		0.50		ug/L			04/05/17 14:01	1
Dichlorobromomethane	ND		0.50		ug/L			04/05/17 14:01	1
Bromobenzene	ND		1.0		ug/L			04/05/17 14:01	1
Chlorobromomethane	ND		1.0		ug/L			04/05/17 14:01	1
Bromoform	ND		1.0		ug/L			04/05/17 14:01	1
Bromomethane	ND		1.0		ug/L			04/05/17 14:01	1
2-Butanone (MEK)	ND		50		ug/L			04/05/17 14:01	1
n-Butylbenzene	ND		1.0		ug/L			04/05/17 14:01	1
sec-Butylbenzene	ND		1.0		ug/L			04/05/17 14:01	1
tert-Butylbenzene	ND		1.0		ug/L			04/05/17 14:01	1
Carbon disulfide	ND		5.0		ug/L			04/05/17 14:01	1
Carbon tetrachloride	ND		0.50		ug/L			04/05/17 14:01	1
Chlorobenzene	ND		0.50		ug/L			04/05/17 14:01	1
Chloroethane	ND		1.0		ug/L			04/05/17 14:01	1
Chloroform	ND		1.0		ug/L			04/05/17 14:01	1
Chloromethane	ND	F1	1.0		ug/L			04/05/17 14:01	1
2-Chlorotoluene	ND		0.50		ug/L			04/05/17 14:01	1
4-Chlorotoluene	ND		0.50		ug/L			04/05/17 14:01	1
Chlorodibromomethane	ND		0.50		ug/L			04/05/17 14:01	1
1,2-Dichlorobenzene	ND		0.50		ug/L			04/05/17 14:01	1
1,3-Dichlorobenzene	ND		0.50		ug/L			04/05/17 14:01	1
1,4-Dichlorobenzene	ND		0.50		ug/L			04/05/17 14:01	1
1,3-Dichloropropane	ND		1.0		ug/L			04/05/17 14:01	1
1,1-Dichloropropene	ND		0.50		ug/L			04/05/17 14:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			04/05/17 14:01	1
Ethylene Dibromide	ND		0.50		ug/L			04/05/17 14:01	1
Dibromomethane	ND		0.50		ug/L			04/05/17 14:01	1
Dichlorodifluoromethane	ND	F1	0.50		ug/L			04/05/17 14:01	1
1,1-Dichloroethane	ND		0.50		ug/L			04/05/17 14:01	1
1,2-Dichloroethane	ND		0.50		ug/L			04/05/17 14:01	1
1,1-Dichloroethene	ND		0.50		ug/L			04/05/17 14:01	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			04/05/17 14:01	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			04/05/17 14:01	1
1,2-Dichloropropane	ND		0.50		ug/L			04/05/17 14:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/05/17 14:01	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			04/05/17 14:01	1
Ethylbenzene	ND		0.50		ug/L			04/05/17 14:01	1
Hexachlorobutadiene	ND		1.0		ug/L			04/05/17 14:01	1
2-Hexanone	ND		50		ug/L			04/05/17 14:01	1
Isopropylbenzene	ND		0.50		ug/L			04/05/17 14:01	1
4-Isopropyltoluene	ND		1.0		ug/L			04/05/17 14:01	1
Methylene Chloride	ND		5.0		ug/L			04/05/17 14:01	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/05/17 14:01	1
Naphthalene	ND		1.0		ug/L			04/05/17 14:01	1
N-Propylbenzene	ND		1.0		ug/L			04/05/17 14:01	1
Styrene	ND		0.50		ug/L			04/05/17 14:01	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/05/17 14:01	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Client Sample ID: INF

Lab Sample ID: 720-78572-3

Date Collected: 03/29/17 11:42

Matrix: Water

Date Received: 03/29/17 14:25

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/05/17 14:01	1
Tetrachloroethene	ND		0.50		ug/L			04/05/17 14:01	1
Toluene	ND		0.50		ug/L			04/05/17 14:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/05/17 14:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/05/17 14:01	1
1,1,1-Trichloroethane	ND		0.50		ug/L			04/05/17 14:01	1
1,1,2-Trichloroethane	ND		0.50		ug/L			04/05/17 14:01	1
Trichloroethene	ND		0.50		ug/L			04/05/17 14:01	1
Trichlorofluoromethane	ND		1.0		ug/L			04/05/17 14:01	1
1,2,3-Trichloropropane	ND		0.50		ug/L			04/05/17 14:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			04/05/17 14:01	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			04/05/17 14:01	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			04/05/17 14:01	1
Vinyl acetate	ND		10		ug/L			04/05/17 14:01	1
Vinyl chloride	ND		0.50		ug/L			04/05/17 14:01	1
Xylenes, Total	ND		1.0		ug/L			04/05/17 14:01	1
2,2-Dichloropropane	ND		0.50		ug/L			04/05/17 14:01	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			04/05/17 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130					04/05/17 14:01	1
1,2-Dichloroethane-d4 (Surr)	103		72 - 130					04/05/17 14:01	1
Toluene-d8 (Surr)	101		70 - 130					04/05/17 14:01	1

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-220606/4

Matrix: Water

Analysis Batch: 220606

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			04/05/17 09:26	1
Acetone	ND		50		ug/L			04/05/17 09:26	1
Benzene	ND		0.50		ug/L			04/05/17 09:26	1
Dichlorobromomethane	ND		0.50		ug/L			04/05/17 09:26	1
Bromobenzene	ND		1.0		ug/L			04/05/17 09:26	1
Chlorobromomethane	ND		1.0		ug/L			04/05/17 09:26	1
Bromoform	ND		1.0		ug/L			04/05/17 09:26	1
Bromomethane	ND		1.0		ug/L			04/05/17 09:26	1
2-Butanone (MEK)	ND		50		ug/L			04/05/17 09:26	1
n-Butylbenzene	ND		1.0		ug/L			04/05/17 09:26	1
sec-Butylbenzene	ND		1.0		ug/L			04/05/17 09:26	1
tert-Butylbenzene	ND		1.0		ug/L			04/05/17 09:26	1
Carbon disulfide	ND		5.0		ug/L			04/05/17 09:26	1
Carbon tetrachloride	ND		0.50		ug/L			04/05/17 09:26	1
Chlorobenzene	ND		0.50		ug/L			04/05/17 09:26	1
Chloroethane	ND		1.0		ug/L			04/05/17 09:26	1
Chloroform	ND		1.0		ug/L			04/05/17 09:26	1
Chloromethane	ND		1.0		ug/L			04/05/17 09:26	1
2-Chlorotoluene	ND		0.50		ug/L			04/05/17 09:26	1
4-Chlorotoluene	ND		0.50		ug/L			04/05/17 09:26	1
Chlorodibromomethane	ND		0.50		ug/L			04/05/17 09:26	1
1,2-Dichlorobenzene	ND		0.50		ug/L			04/05/17 09:26	1
1,3-Dichlorobenzene	ND		0.50		ug/L			04/05/17 09:26	1
1,4-Dichlorobenzene	ND		0.50		ug/L			04/05/17 09:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/05/17 09:26	1
1,1-Dichloropropene	ND		0.50		ug/L			04/05/17 09:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			04/05/17 09:26	1
Ethylene Dibromide	ND		0.50		ug/L			04/05/17 09:26	1
Dibromomethane	ND		0.50		ug/L			04/05/17 09:26	1
Dichlorodifluoromethane	ND		0.50		ug/L			04/05/17 09:26	1
1,1-Dichloroethane	ND		0.50		ug/L			04/05/17 09:26	1
1,2-Dichloroethane	ND		0.50		ug/L			04/05/17 09:26	1
1,1-Dichloroethene	ND		0.50		ug/L			04/05/17 09:26	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			04/05/17 09:26	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			04/05/17 09:26	1
1,2-Dichloropropane	ND		0.50		ug/L			04/05/17 09:26	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/05/17 09:26	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			04/05/17 09:26	1
Ethylbenzene	ND		0.50		ug/L			04/05/17 09:26	1
Hexachlorobutadiene	ND		1.0		ug/L			04/05/17 09:26	1
2-Hexanone	ND		50		ug/L			04/05/17 09:26	1
Isopropylbenzene	ND		0.50		ug/L			04/05/17 09:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/05/17 09:26	1
Methylene Chloride	ND		5.0		ug/L			04/05/17 09:26	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/05/17 09:26	1
Naphthalene	ND		1.0		ug/L			04/05/17 09:26	1
N-Propylbenzene	ND		1.0		ug/L			04/05/17 09:26	1
Styrene	ND		0.50		ug/L			04/05/17 09:26	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-220606/4
Matrix: Water
Analysis Batch: 220606

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/05/17 09:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/05/17 09:26	1
Tetrachloroethene	ND		0.50		ug/L			04/05/17 09:26	1
Toluene	ND		0.50		ug/L			04/05/17 09:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/05/17 09:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/05/17 09:26	1
1,1,1-Trichloroethane	ND		0.50		ug/L			04/05/17 09:26	1
1,1,2-Trichloroethane	ND		0.50		ug/L			04/05/17 09:26	1
Trichloroethene	ND		0.50		ug/L			04/05/17 09:26	1
Trichlorofluoromethane	ND		1.0		ug/L			04/05/17 09:26	1
1,2,3-Trichloropropane	ND		0.50		ug/L			04/05/17 09:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			04/05/17 09:26	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			04/05/17 09:26	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			04/05/17 09:26	1
Vinyl acetate	ND		10		ug/L			04/05/17 09:26	1
Vinyl chloride	ND		0.50		ug/L			04/05/17 09:26	1
Xylenes, Total	ND		1.0		ug/L			04/05/17 09:26	1
2,2-Dichloropropane	ND		0.50		ug/L			04/05/17 09:26	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			04/05/17 09:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		67 - 130		04/05/17 09:26	1
1,2-Dichloroethane-d4 (Surr)	100		72 - 130		04/05/17 09:26	1
Toluene-d8 (Surr)	99		70 - 130		04/05/17 09:26	1

Lab Sample ID: LCS 720-220606/5
Matrix: Water
Analysis Batch: 220606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.5		ug/L		98	62 - 130
Acetone	125	144		ug/L		115	26 - 180
Benzene	25.0	26.2		ug/L		105	79 - 130
Dichlorobromomethane	25.0	27.0		ug/L		108	70 - 130
Bromobenzene	25.0	23.2		ug/L		93	70 - 130
Chlorobromomethane	25.0	24.6		ug/L		98	70 - 130
Bromoform	25.0	23.0		ug/L		92	68 - 136
Bromomethane	25.0	25.6		ug/L		102	43 - 151
2-Butanone (MEK)	125	127		ug/L		101	54 - 153
n-Butylbenzene	25.0	25.6		ug/L		102	70 - 142
sec-Butylbenzene	25.0	25.5		ug/L		102	70 - 134
tert-Butylbenzene	25.0	24.4		ug/L		98	70 - 135
Carbon disulfide	25.0	24.3		ug/L		97	68 - 146
Carbon tetrachloride	25.0	24.4		ug/L		97	70 - 146
Chlorobenzene	25.0	24.0		ug/L		96	70 - 130
Chloroethane	25.0	28.9		ug/L		116	62 - 138
Chloroform	25.0	25.0		ug/L		100	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-220606/5
Matrix: Water
Analysis Batch: 220606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	35.5		ug/L		142	52 - 175
2-Chlorotoluene	25.0	24.8		ug/L		99	70 - 130
4-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130
Chlorodibromomethane	25.0	26.3		ug/L		105	70 - 145
1,2-Dichlorobenzene	25.0	23.6		ug/L		95	70 - 130
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	24.8		ug/L		99	70 - 130
1,1-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.3		ug/L		89	70 - 136
Ethylene Dibromide	25.0	24.9		ug/L		100	70 - 130
Dibromomethane	25.0	24.4		ug/L		98	70 - 130
Dichlorodifluoromethane	25.0	36.8		ug/L		147	32 - 158
1,1-Dichloroethane	25.0	26.1		ug/L		104	70 - 130
1,2-Dichloroethane	25.0	23.8		ug/L		95	61 - 132
1,1-Dichloroethene	25.0	22.5		ug/L		90	64 - 128
cis-1,2-Dichloroethene	25.0	25.8		ug/L		103	70 - 130
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	68 - 130
1,2-Dichloropropane	25.0	26.8		ug/L		107	70 - 130
cis-1,3-Dichloropropene	25.0	27.0		ug/L		108	70 - 130
trans-1,3-Dichloropropene	25.0	26.8		ug/L		107	70 - 140
Ethylbenzene	25.0	25.3		ug/L		101	80 - 120
Hexachlorobutadiene	25.0	25.1		ug/L		100	70 - 130
2-Hexanone	125	135		ug/L		108	60 - 164
Isopropylbenzene	25.0	25.7		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	24.6		ug/L		99	70 - 130
Methylene Chloride	25.0	25.0		ug/L		100	70 - 147
4-Methyl-2-pentanone (MIBK)	125	137		ug/L		109	50 - 155
Naphthalene	25.0	23.1		ug/L		92	50 - 130
N-Propylbenzene	25.0	26.1		ug/L		104	70 - 130
Styrene	25.0	25.4		ug/L		101	70 - 130
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.0		ug/L		92	70 - 130
Tetrachloroethene	25.0	25.1		ug/L		100	70 - 130
Toluene	25.0	24.2		ug/L		97	78 - 120
1,2,3-Trichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,1,1-Trichloroethane	25.0	24.4		ug/L		98	70 - 130
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	70 - 130
Trichloroethene	25.0	24.9		ug/L		100	70 - 130
Trichlorofluoromethane	25.0	27.7		ug/L		111	66 - 132
1,2,3-Trichloropropane	25.0	23.5		ug/L		94	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.4		ug/L		89	42 - 162
1,2,4-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 132
1,3,5-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 130
Vinyl acetate	25.0	27.7		ug/L		111	43 - 163
Vinyl chloride	25.0	31.3		ug/L		125	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-220606/5
Matrix: Water
Analysis Batch: 220606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	24.7		ug/L		99	70 - 142
o-Xylene	25.0	25.2		ug/L		101	70 - 130
2,2-Dichloropropane	25.0	25.5		ug/L		102	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	97		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCS 720-220606/7
Matrix: Water
Analysis Batch: 220606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	560		ug/L		112	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 720-220606/6
Matrix: Water
Analysis Batch: 220606

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	25.6		ug/L		102	62 - 130	4	20
Acetone	125	167		ug/L		133	26 - 180	14	30
Benzene	25.0	26.0		ug/L		104	79 - 130	1	20
Dichlorobromomethane	25.0	27.2		ug/L		109	70 - 130	1	20
Bromobenzene	25.0	23.2		ug/L		93	70 - 130	0	20
Chlorobromomethane	25.0	24.9		ug/L		100	70 - 130	1	20
Bromoform	25.0	24.3		ug/L		97	68 - 136	5	20
Bromomethane	25.0	25.3		ug/L		101	43 - 151	1	20
2-Butanone (MEK)	125	140		ug/L		112	54 - 153	10	20
n-Butylbenzene	25.0	25.4		ug/L		102	70 - 142	1	20
sec-Butylbenzene	25.0	25.1		ug/L		100	70 - 134	2	20
tert-Butylbenzene	25.0	24.1		ug/L		96	70 - 135	1	20
Carbon disulfide	25.0	23.9		ug/L		96	68 - 146	1	20
Carbon tetrachloride	25.0	24.0		ug/L		96	70 - 146	1	20
Chlorobenzene	25.0	23.9		ug/L		96	70 - 130	1	20
Chloroethane	25.0	28.4		ug/L		113	62 - 138	2	20
Chloroform	25.0	25.3		ug/L		101	70 - 130	1	20
Chloromethane	25.0	34.5		ug/L		138	52 - 175	3	20
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130	1	20
4-Chlorotoluene	25.0	24.7		ug/L		99	70 - 130	1	20
Chlorodibromomethane	25.0	27.2		ug/L		109	70 - 145	3	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-220606/6

Matrix: Water

Analysis Batch: 220606

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130	0	20
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	0	20
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130	0	20
1,3-Dichloropropane	25.0	25.6		ug/L		102	70 - 130	3	20
1,1-Dichloropropene	25.0	25.4		ug/L		102	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	23.7		ug/L		95	70 - 136	6	20
Ethylene Dibromide	25.0	26.0		ug/L		104	70 - 130	5	20
Dibromomethane	25.0	25.1		ug/L		101	70 - 130	3	20
Dichlorodifluoromethane	25.0	36.1		ug/L		144	32 - 158	2	20
1,1-Dichloroethane	25.0	25.8		ug/L		103	70 - 130	1	20
1,2-Dichloroethane	25.0	24.4		ug/L		98	61 - 132	2	20
1,1-Dichloroethene	25.0	22.2		ug/L		89	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 130	0	20
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	68 - 130	1	20
1,2-Dichloropropane	25.0	27.0		ug/L		108	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	27.3		ug/L		109	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	27.6		ug/L		111	70 - 140	3	20
Ethylbenzene	25.0	25.0		ug/L		100	80 - 120	1	20
Hexachlorobutadiene	25.0	24.9		ug/L		99	70 - 130	1	20
2-Hexanone	125	148		ug/L		119	60 - 164	9	20
Isopropylbenzene	25.0	25.3		ug/L		101	70 - 130	1	20
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 130	1	20
Methylene Chloride	25.0	25.1		ug/L		100	70 - 147	0	20
4-Methyl-2-pentanone (MIBK)	125	149		ug/L		119	50 - 155	8	20
Naphthalene	25.0	24.4		ug/L		98	50 - 130	5	20
N-Propylbenzene	25.0	25.4		ug/L		102	70 - 130	2	20
Styrene	25.0	25.5		ug/L		102	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130	0	20
1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		94	70 - 130	3	20
Tetrachloroethene	25.0	24.6		ug/L		98	70 - 130	2	20
Toluene	25.0	23.9		ug/L		96	78 - 120	1	20
1,2,3-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130	2	20
1,1,1-Trichloroethane	25.0	24.3		ug/L		97	70 - 130	0	20
1,1,2-Trichloroethane	25.0	26.8		ug/L		107	70 - 130	5	20
Trichloroethene	25.0	24.8		ug/L		99	70 - 130	0	20
Trichlorofluoromethane	25.0	27.4		ug/L		110	66 - 132	1	20
1,2,3-Trichloropropane	25.0	24.7		ug/L		99	70 - 130	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.5		ug/L		90	42 - 162	1	20
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130	1	20
Vinyl acetate	25.0	28.8		ug/L		115	43 - 163	4	20
Vinyl chloride	25.0	30.9		ug/L		123	54 - 135	1	20
m-Xylene & p-Xylene	25.0	24.3		ug/L		97	70 - 142	2	20
o-Xylene	25.0	24.9		ug/L		100	70 - 130	1	20
2,2-Dichloropropane	25.0	24.5		ug/L		98	70 - 140	4	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-220606/6
Matrix: Water
Analysis Batch: 220606

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 720-220606/8
Matrix: Water
Analysis Batch: 220606

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	560		ug/L		112	71 - 125	0	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: 720-78572-3 MS
Matrix: Water
Analysis Batch: 220606

Client Sample ID: INF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	24.9		ug/L		98	60 - 138
Acetone	ND		125	127		ug/L		102	60 - 140
Benzene	ND		25.0	25.9		ug/L		104	60 - 140
Dichlorobromomethane	ND		25.0	26.9		ug/L		108	60 - 140
Bromobenzene	ND		25.0	22.4		ug/L		90	60 - 140
Chlorobromomethane	ND		25.0	24.6		ug/L		98	60 - 140
Bromoform	ND		25.0	23.8		ug/L		95	56 - 140
Bromomethane	ND		25.0	24.3		ug/L		97	23 - 140
2-Butanone (MEK)	ND		125	125		ug/L		100	60 - 140
n-Butylbenzene	ND		25.0	25.4		ug/L		101	60 - 140
sec-Butylbenzene	ND		25.0	24.3		ug/L		97	60 - 140
tert-Butylbenzene	ND		25.0	23.2		ug/L		93	60 - 140
Carbon disulfide	ND		25.0	23.6		ug/L		94	38 - 140
Carbon tetrachloride	ND		25.0	24.0		ug/L		96	60 - 140
Chlorobenzene	ND		25.0	23.6		ug/L		94	60 - 140
Chloroethane	ND		25.0	28.3		ug/L		113	51 - 140
Chloroform	ND		25.0	25.1		ug/L		101	60 - 140
Chloromethane	ND	F1	25.0	35.8	F1	ug/L		143	52 - 140
2-Chlorotoluene	ND		25.0	23.5		ug/L		94	60 - 140
4-Chlorotoluene	ND		25.0	24.0		ug/L		96	60 - 140
Chlorodibromomethane	ND		25.0	26.9		ug/L		108	60 - 140
1,2-Dichlorobenzene	ND		25.0	22.9		ug/L		92	60 - 140
1,3-Dichlorobenzene	ND		25.0	23.3		ug/L		93	60 - 140
1,4-Dichlorobenzene	ND		25.0	23.3		ug/L		93	60 - 140
1,3-Dichloropropane	ND		25.0	24.9		ug/L		100	60 - 140
1,1-Dichloropropene	ND		25.0	25.3		ug/L		101	60 - 140

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-78572-3 MS

Matrix: Water

Analysis Batch: 220606

Client Sample ID: INF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		25.0	22.5		ug/L		90	60 - 140
Ethylene Dibromide	ND		25.0	25.5		ug/L		102	60 - 140
Dibromomethane	ND		25.0	24.6		ug/L		99	60 - 140
Dichlorodifluoromethane	ND	F1	25.0	35.7	F1	ug/L		143	38 - 140
1,1-Dichloroethane	ND		25.0	25.6		ug/L		102	60 - 140
1,2-Dichloroethane	ND		25.0	24.2		ug/L		96	60 - 140
1,1-Dichloroethene	ND		25.0	21.8		ug/L		87	60 - 140
cis-1,2-Dichloroethene	ND		25.0	25.7		ug/L		103	60 - 140
trans-1,2-Dichloroethene	ND		25.0	24.2		ug/L		97	60 - 140
1,2-Dichloropropane	ND		25.0	26.9		ug/L		107	60 - 140
cis-1,3-Dichloropropene	ND		25.0	27.2		ug/L		109	60 - 140
trans-1,3-Dichloropropene	ND		25.0	27.6		ug/L		110	60 - 140
Ethylbenzene	ND		25.0	24.6		ug/L		98	60 - 140
Hexachlorobutadiene	ND		25.0	24.5		ug/L		98	60 - 140
2-Hexanone	ND		125	135		ug/L		108	60 - 140
Isopropylbenzene	ND		25.0	25.0		ug/L		100	60 - 140
4-Isopropyltoluene	ND		25.0	23.8		ug/L		95	60 - 140
Methylene Chloride	ND		25.0	24.9		ug/L		100	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	138		ug/L		111	58 - 130
Naphthalene	ND		25.0	24.0		ug/L		95	56 - 140
N-Propylbenzene	ND		25.0	24.7		ug/L		99	60 - 140
Styrene	ND		25.0	25.2		ug/L		101	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	24.3		ug/L		97	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	21.9		ug/L		88	60 - 140
Tetrachloroethene	ND		25.0	24.5		ug/L		98	60 - 140
Toluene	ND		25.0	23.5		ug/L		94	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	25.0		ug/L		99	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.1		ug/L		100	60 - 140
1,1,1-Trichloroethane	ND		25.0	24.7		ug/L		99	60 - 140
1,1,2-Trichloroethane	ND		25.0	25.9		ug/L		104	60 - 140
Trichloroethene	ND		25.0	24.5		ug/L		98	60 - 140
Trichlorofluoromethane	ND		25.0	27.6		ug/L		110	60 - 140
1,2,3-Trichloropropane	ND		25.0	22.5		ug/L		90	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	21.9		ug/L		88	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	24.1		ug/L		96	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	23.8		ug/L		95	60 - 140
Vinyl acetate	ND		25.0	28.3		ug/L		113	40 - 140
Vinyl chloride	ND		25.0	30.0		ug/L		120	58 - 140
m-Xylene & p-Xylene	ND		25.0	24.1		ug/L		96	60 - 140
o-Xylene	ND		25.0	25.1		ug/L		99	60 - 140
2,2-Dichloropropane	ND		25.0	25.1		ug/L		100	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		72 - 130
Toluene-d8 (Surr)	104		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-78572-3 MSD
Matrix: Water
Analysis Batch: 220606

Client Sample ID: INF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	25.6		ug/L		101	60 - 138	3	20
Acetone	ND		125	132		ug/L		105	60 - 140	4	20
Benzene	ND		25.0	25.9		ug/L		104	60 - 140	0	20
Dichlorobromomethane	ND		25.0	27.1		ug/L		108	60 - 140	0	20
Bromobenzene	ND		25.0	22.5		ug/L		90	60 - 140	0	20
Chlorobromomethane	ND		25.0	24.8		ug/L		99	60 - 140	1	20
Bromoform	ND		25.0	24.1		ug/L		96	56 - 140	1	20
Bromomethane	ND		25.0	24.7		ug/L		99	23 - 140	1	20
2-Butanone (MEK)	ND		125	128		ug/L		102	60 - 140	2	20
n-Butylbenzene	ND		25.0	25.1		ug/L		100	60 - 140	1	20
sec-Butylbenzene	ND		25.0	24.3		ug/L		97	60 - 140	0	20
tert-Butylbenzene	ND		25.0	23.2		ug/L		93	60 - 140	0	20
Carbon disulfide	ND		25.0	23.5		ug/L		94	38 - 140	0	20
Carbon tetrachloride	ND		25.0	24.2		ug/L		97	60 - 140	1	20
Chlorobenzene	ND		25.0	23.5		ug/L		94	60 - 140	0	20
Chloroethane	ND		25.0	28.3		ug/L		113	51 - 140	0	20
Chloroform	ND		25.0	25.1		ug/L		100	60 - 140	0	20
Chloromethane	ND	F1	25.0	35.1	F1	ug/L		141	52 - 140	2	20
2-Chlorotoluene	ND		25.0	23.5		ug/L		94	60 - 140	0	20
4-Chlorotoluene	ND		25.0	23.9		ug/L		96	60 - 140	0	20
Chlorodibromomethane	ND		25.0	27.1		ug/L		109	60 - 140	1	20
1,2-Dichlorobenzene	ND		25.0	23.1		ug/L		92	60 - 140	1	20
1,3-Dichlorobenzene	ND		25.0	23.1		ug/L		92	60 - 140	1	20
1,4-Dichlorobenzene	ND		25.0	23.3		ug/L		93	60 - 140	0	20
1,3-Dichloropropane	ND		25.0	25.2		ug/L		101	60 - 140	1	20
1,1-Dichloropropene	ND		25.0	25.4		ug/L		102	60 - 140	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	22.9		ug/L		92	60 - 140	2	20
Ethylene Dibromide	ND		25.0	25.6		ug/L		102	60 - 140	0	20
Dibromomethane	ND		25.0	24.9		ug/L		100	60 - 140	1	20
Dichlorodifluoromethane	ND	F1	25.0	36.1	F1	ug/L		144	38 - 140	1	20
1,1-Dichloroethane	ND		25.0	25.8		ug/L		103	60 - 140	1	20
1,2-Dichloroethane	ND		25.0	24.3		ug/L		96	60 - 140	0	20
1,1-Dichloroethene	ND		25.0	21.7		ug/L		87	60 - 140	0	20
cis-1,2-Dichloroethene	ND		25.0	25.8		ug/L		103	60 - 140	0	20
trans-1,2-Dichloroethene	ND		25.0	24.5		ug/L		98	60 - 140	1	20
1,2-Dichloropropane	ND		25.0	26.8		ug/L		107	60 - 140	0	20
cis-1,3-Dichloropropene	ND		25.0	27.5		ug/L		110	60 - 140	1	20
trans-1,3-Dichloropropene	ND		25.0	27.5		ug/L		110	60 - 140	0	20
Ethylbenzene	ND		25.0	24.5		ug/L		98	60 - 140	0	20
Hexachlorobutadiene	ND		25.0	24.4		ug/L		98	60 - 140	0	20
2-Hexanone	ND		125	139		ug/L		111	60 - 140	3	20
Isopropylbenzene	ND		25.0	24.7		ug/L		99	60 - 140	1	20
4-Isopropyltoluene	ND		25.0	23.8		ug/L		95	60 - 140	0	20
Methylene Chloride	ND		25.0	25.1		ug/L		100	40 - 140	1	20
4-Methyl-2-pentanone (MIBK)	ND		125	142		ug/L		114	58 - 130	3	20
Naphthalene	ND		25.0	24.7		ug/L		98	56 - 140	3	20
N-Propylbenzene	ND		25.0	24.8		ug/L		99	60 - 140	0	20
Styrene	ND		25.0	25.0		ug/L		100	60 - 140	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-78572-3 MSD

Matrix: Water

Analysis Batch: 220606

Client Sample ID: INF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	24.5		ug/L		98	60 - 140	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	22.2		ug/L		89	60 - 140	1	20
Tetrachloroethene	ND		25.0	24.4		ug/L		98	60 - 140	0	20
Toluene	ND		25.0	23.4		ug/L		93	60 - 140	1	20
1,2,3-Trichlorobenzene	ND		25.0	25.6		ug/L		101	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		25.0	25.2		ug/L		100	60 - 140	0	20
1,1,1-Trichloroethane	ND		25.0	24.5		ug/L		98	60 - 140	1	20
1,1,2-Trichloroethane	ND		25.0	26.0		ug/L		104	60 - 140	0	20
Trichloroethene	ND		25.0	24.5		ug/L		98	60 - 140	0	20
Trichlorofluoromethane	ND		25.0	27.8		ug/L		111	60 - 140	1	20
1,2,3-Trichloropropane	ND		25.0	22.8		ug/L		91	60 - 140	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.0		ug/L		88	60 - 140	0	20
1,2,4-Trimethylbenzene	ND		25.0	24.1		ug/L		96	60 - 140	0	20
1,3,5-Trimethylbenzene	ND		25.0	23.9		ug/L		95	60 - 140	0	20
Vinyl acetate	ND		25.0	28.5		ug/L		114	40 - 140	1	20
Vinyl chloride	ND		25.0	29.6		ug/L		118	58 - 140	1	20
m-Xylene & p-Xylene	ND		25.0	23.8		ug/L		95	60 - 140	1	20
o-Xylene	ND		25.0	24.7		ug/L		98	60 - 140	2	20
2,2-Dichloropropane	ND		25.0	24.9		ug/L		100	60 - 140	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	102		70 - 130

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

GC/MS VOA

Analysis Batch: 220606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78572-1	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-78572-2	GAC	Total/NA	Water	8260B/CA_LUFT MS	
720-78572-3	INF	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-220606/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-220606/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-220606/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-220606/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-220606/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-78572-3 MS	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-78572-3 MSD	INF	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Client Sample ID: EFF
Date Collected: 03/29/17 11:40
Date Received: 03/29/17 14:25

Lab Sample ID: 720-78572-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	220606	04/05/17 12:01	JZT	TAL PLS

Client Sample ID: GAC
Date Collected: 03/29/17 11:44
Date Received: 03/29/17 14:25

Lab Sample ID: 720-78572-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	220606	04/05/17 12:31	JZT	TAL PLS

Client Sample ID: INF
Date Collected: 03/29/17 11:42
Date Received: 03/29/17 14:25

Lab Sample ID: 720-78572-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	220606	04/05/17 14:01	JZT	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-18

Analysis Method	Prep Method	Matrix	Analyte
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-78572-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-78572-1	EFF	Water	03/29/17 11:40	03/29/17 14:25
720-78572-2	GAC	Water	03/29/17 11:44	03/29/17 14:25
720-78572-3	INF	Water	03/29/17 11:42	03/29/17 14:25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Regulatory Program: DW NPDES RCRA Other:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
4/6/2017

Chain of Custody Record
174994
720-78572

Client Contact: Nilryo & Moore
1956 Webster Street #400
Oakland/CA/94612
510-343-3000 Phone
(xxx) xxx-xxxx FAX
Project Name: Chun
Site: 401896004
P O #

Project Manager: Peter Sims
Tel/Fax: 510.343.3000

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT If different from Below
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Asha Turman
Lab Contact: Paloma Duong
Carrier: Date: 3.29.2017

COC No: 1 of 1 COCs
Sampler: ALT
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TPHg & VOCs; EPA Method 8260B	Sample Specific Notes:
EFF	3.29.17	1140	G	GW	1	N	N	X	
GAC	3.29.17	1144	G	GW	1	N	N	X	
INF	3.29.17	1142	G	GW	1	N	N	X	

720-78572 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
 Return to Client Disposal by Lab Archive for _____ Months

Custody Seals Intact: Yes No

Custody Seal No.: _____

Relinquished by: [Signature] Company: N4M Date/Time: 3/29/17 12:10
Received by: [Signature] Company: T14 Date/Time: 3/29/17 13:0

Relinquished by: [Signature] Company: T14 Date/Time: 3/29/17 14:25
Received in Laboratory by: [Signature] Company: T14 Date/Time: 3/29/17 14:25

Cooler Temp (°C): Obs'd: _____ Cor'd: _____ Therm ID No.: _____

2.25

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-78572-1

Login Number: 78572
List Number: 1
Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



APPENDIX D

GROUNDWATER MONITORING DATA SHEETS

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 2 / 1 / 2017

Field Tech: ALT

Time: 13 : 08

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	405,510	--	--	on
EX-22	471,520	--	--	
EX-21	421,320	--	--	
Injection				
	42,310			
IN-18 + 19		32	2.5	
IN-16	102,190	22	7	
Trenches 2+3	378,778	15	2.5	1312
Trench 1 + IN 17	390,300	10	12	1310
IN 14 +15	312,050			

Treatment System

Totalizer (digital): 1,274,810 gal

GAC Lead Pressure: 30 psi

GAC Polish Pressure: 0 psi

Bag Filter 1 Pressure: 62 psi

Bag Filter 2 Pressure: 58 psi

Mixing Tank pH:

Holding Tank pH:

Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges
- Add Amendment to Holding Tank
_____ cups soda ash pH buffer

- Add Amendment to Mixing Tank
50 lbs CBN nutrient mix
0 gal EZT-EA biosurfactant
0 cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: bi-weekly monthly quarterly unplanned

Date: 11/4/17

Field Tech: Peter Simms

Time: 8:00

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	<u>678200</u>	--	--	
EX-22	<u>619860</u>	--	--	
EX-21	<u>449170</u>	--	--	
Injection				
IN-18 + 19	<u>41310</u>	<u>2</u>	<u>36</u>	
IN-16	<u>100020</u>	<u>8.6</u>	<u>16</u>	
Trenches 2+3	<u>364270</u>	<u>8.2</u>	<u>20</u>	
Trench 1 + IN 17	<u>371900</u>	<u>10</u>	<u>10</u>	
IN 14 + 15	<u>302520</u>	<u>8.2</u>	<u>20</u>	

Treatment System

Totalizer (digital): 1225500 gal

GAC Lead Pressure: 36.20 psi

GAC Polish Pressure: 34.0 psi

Bag Filter 1 Pressure: 36 psi

Bag Filter 2 Pressure: 34 psi

Mixing Tank pH _____

Holding Tank pH _____

Weekly Maintenance Checklist

- Check O2 Flow
- Check All Flow Meters and Pressure Gauges

- Add Amendment to Mixing Tank

50 lbs CBN nutrient mix
 _____ gal EZT-EA biosurfactant
 _____ cups soda ash pH buffer

- Add Amendment to Holding Tank
 _____ cups soda ash pH buffer

Quarterly Maintenance Checklist

- Clean Mixing Tank
- Clean Flow Meters
- Y Strainer
- Bag Filters
- Check GW Extraction Flow Rate
- Check Grundfos Extraction Pumps

MONITORING WELL SAMPLING FORM	Date: March 3, 2017
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Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-4R	Depth to Liquid (DL): 6.87	3 ± 0.02 gal
Casing Material: PVC	Depth to Water (DW1): 6.82	
Diameter:	Product Thickness (PT=DW1-DL): 0	
Well Head Condition:	Total Well Depth (TD): 25.20	
Well Box Condition:	Total head (TH=TD-DW1): 18.38	
Purge Method: Pump	Casing Volume (TH*Factor): 2.94 y	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	DO mg/l	ORP mV	Remarks
1030	3	18.90	0.411	6.63	31.3	2.41	37	sediment came up black
1040	5	19.30	0.400	6.50	76.5	2.14	34	cloudy
1050	8	19.19	0.407	6.57	9.04	2.54	25	clear

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER
	Mw-4r										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: March 3, 2017

Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-5R	Depth to Liquid (DL): 4.00	* 3 @ 1.55
Casing Material: PVC	Depth to Water (DW1): 4.00	
Diameter:	Product Thickness (PT=DW1-DL): 0	
Well Head Condition:	Total Well Depth (TD): 23.01	
Well Box Condition:	Total head (TH=TD-DW1): 17.01	
Purge Method: Pump	Casing Volume (TH*Factor): 2.05	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	DO mg/L	ORP mV	Remarks
1106	3	19.14	0.510	6.62	30.3	2.46	5	particles fibron
1116	5	19.15	0.412	4.86	24.4	0.97	23	" "
1132	8	18.80	0.412	7.01	24.0	1.54	1	petrol odor

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (µS/cm)	Turb (NTU)	TPH-S	TPH-d	BTEX /MTBE	8260	8010	OTHER
	Mw-5r										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: March 2, 2017
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Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing. Well Location:

WELL NO. MW-6R	Depth to Liquid (DL): 4.93	*3 = 9.75 gal
Casing Material: PVC	Depth to Water (DW1): 4.93	
Diameter:	Product Thickness (PT=DW1-DL):	
Well Head Condition:	Total Well Depth (TD): 25.25	
Well Box Condition:	Total head (TH=TD-DW1): 20.32	
Purge Method: Pump	Casing Volume (TH*Factor): 9.25	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	Remarks
1520	3	18.86	0.702	6.39	36.3	Down/1 DRPNV 2.43 145 Cloudy
1541	6	18.54	0.527	5.90	38.4	1.42 184 Cloudy
1600	7	18.63	0.527	5.96	36.1	4.29 180

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER
	Mw-6R										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: March 3, 2017
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Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing. Well Location:

WELL NO. MW-7R	Depth to Liquid (DL): 5.08	x 3.32 gal
Casing Material: PVC	Depth to Water (DW1): 5.08	
Diameter:	Product Thickness (PT=DW1-DL):	
Well Head Condition:	Total Well Depth (TD): 28.27	
Well Box Condition:	Total head (TH=TD-DW1): 19.41	
Purge Method: Pump	Casing Volume (TH*Factor): 3.11	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	Remarks
1155	3	18.54	0.624	6.98	16.5	DOMOL ORPMV
1205	4	18.40	0.637	6.63	36.7	1.97 -34 particles petrol odor, foamy
1210	7	18.16	0.635	6.84	34.2	2.19 -72 cloudy petrol odor

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (µS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MIBE	8260	8010	OTHER
	Mw-7r										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: March 3, 2017

Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-8	Depth to Liquid (DL): 14.9 7.90	23 = 3.0 gal
Casing Material: PVC	Depth to Water (DW1): 7.90	
Diameter:	Product Thickness (PT=DW1-DL): 0	
Well Head Condition:	Total Well Depth (TD): 14.90	
Well Box Condition:	Total head (TH=TD-DW1): 7.50	
Purge Method: Pump	Casing Volume (TH*Factor): 1.20	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	DD mg/L	DR Pm V	Remarks
914	1	17.82	0.262	6.91	270	10.12	0	cloudy - gray
917	2	18.34	0.101	7.14	162	7.43	28	cloudy - gray
920	3	18.59	0.303	6.84	164	3.60	46	cloudy - gray yellow

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (µS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER
	MW-8										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: March 3, 2017

Project Name: <u>Chun</u>	Client: <u>Carolyn Fong</u>	Job No: <u>401896004</u>
Address: <u>2301 Santa Clara Avenue</u>	Contact Phone:	
City/State: <u>Alameda, CA</u>	Technician Gauging/Sampling: <u>ALT</u>	

Note: All measurements from top of casing.

Well Location:

WELL NO. <u>MW-9</u>	Depth to Liquid (DL): <u>14.78 4.43</u>
Casing Material: <u>PVC</u>	Depth to Water (DW1): <u>1 4.43</u>
Diameter:	Product Thickness (PT=DW1-DL):
Well Head Condition:	Total Well Depth (TD): <u>14.78</u>
Well Box Condition:	Total head (TH=TD-DW1): <u>10.15</u>
Purge Method: <u>Pump</u>	Casing Volume (TH*Factor): <u>1.62 x 3 = 4.87 gal'</u>
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023	

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	DO mg/L	Remarks
<u>7:51</u>	<u>1</u>	<u>16.06</u>	<u>0.479</u>	<u>7.10</u>	<u>96.7</u>	<u>4.62</u>	<u>0.9 ppm V</u>
<u>8:00</u>	<u>2</u>	<u>16.16</u>	<u>0.450</u>	<u>7.01</u>	<u>101</u>	<u>4.31</u>	<u>11.4 g/l</u>
<u>8:02</u>	<u>4</u>	<u>16.08</u>	<u>6.942</u>	<u>7.30</u>	<u>172</u>	<u>5.48</u>	<u>12.3</u>

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER
	<u>MW-9</u>										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: March 2, 2017

Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-10	Depth to Liquid (DL): 5.05
Casing Material: PVC	Depth to Water (DW1): 5.05
Diameter:	Product Thickness (PT=DW1-DL):
Well Head Condition:	Total Well Depth (TD): 13.90
Well Box Condition:	Total head (TH=TD-DW1): 8.45
Purge Method: Pump	Casing Volume (TH*Factor): 1.35 * 3 = 4.06
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023	

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	Turb (NTU)	DO mg/L	ORP mV	Remarks
12:52	1.5	17.71	0.457	6.80	81.8	5.99	175	cloudy
12:56	2.5	17.69	0.457	6.70	85.3	4.17	186	cloudy
13:02	4	17.76	0.184	6.48	143	8.53	143	cloudy

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER
	MW-10										

Additional Comments

MONITORING/WELLS SAMPLING FORM

Date: March 3, 2017

Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-11R	Depth to Liquid (DL): 7.14	3 5.05 gal)
Casing Material: PVC	Depth to Water (DW1): 7.14	
Diameter:	Product Thickness (PT=DW1-DL):	
Well Head Condition:	Total Well Depth (TD): 23.97	
Well Box Condition:	Total head (TH=TD-DW1): 16.83	
Purge Method: Pump	Casing Volume (TH*Factor): 1.6643	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	Turb (NTU)	Remarks
950	1	18.37	0.445	6.61	48.7	DO m/L ORP mV
955	3	18.04	0.504	6.73	41.9	3.17 14 light petrol odor
1005	5	18.01	0.507	6.65	31.8	2.43 14 "

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-s	TPH-d	BTEX /MTBE	8260	8010	OTHER
	mw-11r										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: March 3, 2017

Project Name: <u>Chun</u>	Client: <u>Carolyn Fong</u>	Job No: <u>401896004</u>
Address: <u>2301 Santa Clara Avenue</u>	Contact/Phone:	
City/State: <u>Alameda, CA</u>	Technician Gauging/Sampling: <u>ALT</u>	

Note: All measurements from top of casing.

Well Location:

WELL NO. <u>MW-12</u>	Depth to Liquid (DL): 24.66 <u>7.19</u> <u>6.81</u>
Casing Material: <u>PVC</u>	Depth to Water (DW1): 7.44 <u>6.81</u>
Diameter:	Product Thickness (PT=DW1-DL): <u>0</u>
Well Head Condition:	Total Well Depth (TD): <u>24.06</u>
Well Box Condition:	Total head (TH=TD-DW1): 17.66 <u>8.5</u>
Purge Method: <u>Pump</u>	Casing Volume (TH*Factor): <u>2.86</u> <u>x 3 = 8.47 gal</u>
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023	

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	Turb (NTU)	DO mg/L	ORP mV	Remarks
<u>841</u>	<u>3</u>	<u>14.83</u>	<u>0.490</u>	<u>7.02</u>	<u>26.0</u>	<u>3.78</u>	<u>71</u>	
<u>845</u>	<u>5</u>	<u>18.03</u>	<u>0.517</u>	<u>6.52</u>	<u>17.0</u>	<u>1.46</u>	<u>-1</u>	
<u>850</u>	<u>8</u>	<u>17.79</u>	<u>0.513</u>	<u>6.54</u>	<u>3.81</u>	<u>2.57</u>	<u>-12</u>	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER
	<u>MW-12</u>										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: March 2, 2017

Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-13	Depth to Liquid (DL): 7.71	* 3 6.06 gal
Casing Material: PVC	Depth to Water (DW1): 7.71	
Diameter:	Product Thickness (PT=DW1-DL):	
Well Head Condition:	Total Well Depth (TD): 20.33	
Well Box Condition:	Total head (TH=TD-DW1): 12.62	
Purge Method: Pump	Casing Volume (TH*Factor): 2.02	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	DO mg/L	ORP mV	Remarks
1348	2	19.03	0.793	6.98	10.4	3.57	171	
1436	4	18.13	0.775	6.70	171	3.94	90	
1440	6	18.51	0.871	6.82	176	3.68	118	Gravelly gray

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery $(1 - [DW2 - DW1] / DW1) * 100$

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (µS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER
	MW-13										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: 3.2.17

Project Name: Chun
 Address: 2301 Santa Clara Avenue
 City/State: Alameda, California

Client: Carolyn Fong Job No: 401896004
 Contact/Phone:
 Technician Gauging/Sampling: ALG

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-14	Depth to Liquid (DL): 7.29	Well Location:
Casing Material: PVC	Depth to Water (DW1): 7.29	
Diameter: 2"	Product Thickness (PT=DW1-DL): 0	
Well Head Condition: good	Total Well Depth (TD): 11.69	
Well Box Condition: good	Total head (TH=TD-DW1): 4.4	
Purge Method: Pump	Casing Volume (TH*Factor): .64	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

$x .16 = 2.11 \text{ gal}$

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	DO mg/L	ORP mV	Remarks
1405	.5	18.67	0.399	6.67	309	6.50	176	cloudy, partial odor
1408	1	18.22	0.187	7.01	341	6.25	118	"
1410	2	17.66	0.316	7.02	368	3.86	62	" - brownish/yellow

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

MONITORING WELL SAMPLING FORM	Date: March 2, 2017
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Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-15	Depth to Liquid (DL): 7.80	3 = 10.51 gal
Casing Material: PVC	Depth to Water (DW1):	
Diameter:	Product Thickness (PT=DW1-DL):	
Well Head Condition:	Total Well Depth (TD): 29.69	
Well Box Condition:	Total head (TH=TD-DW1): 21.89	
Purge Method: Pump	Casing Volume (TH*Factor): 3.50 x	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	DO mg/L	Remarks
950	3 gal	18.43	0.447	6.88	35.8	4.57	ORP mV
1005	6 gal	18.79	0.446	6.99	172	4.02	cloudy-gray 61
1030	9 gal	18.73	0.454	7.02	767	3.82	yellowish 124

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER
	MW-15										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: March 2, 2017
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Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: ALT	

Note: All measurements from top of casing. Well Location:

WELL NO. MW-16	Depth to Liquid (DL): 7.45	Well Location:
Casing Material: PVC	Depth to Water (DW1): 7.45	
Diameter:	Product Thickness (PT=DW1-DL):	
Well Head Condition:	Total Well Depth (TD): 29.69	
Well Box Condition:	Total head (TH=TD-DW1): 22.24	
Purge Method: Pump	Casing Volume (TH*Factor): 3.56 x 3 = 10.67	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	Turb (NTU)	D ₅₀ W/L	D ₁₀ P/W	Remarks
1115	3	18.19	0.477	6.88	28.0	3.64	176	
1125	2	17.51	0.539	4.60	15.8	3.76	184	
1150	9	17.83	0.574	4.55	10.1	3.33	186	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (µS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER
	MW-16										

Additional Comments
