

March 23, 2017

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To: Ms. Kit Soo, P.G., Senior Hazardous Materials Specialist
Alameda County Environmental Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
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Re: Acknowledgement Statement
4th Quarter 2016 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

**4TH QUARTER 2016 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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March 23, 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: 4th Quarter 2016 Groundwater Monitoring, System
Evaluation, and Optimization Report
2301 Santa Clara Avenue
Alameda, California
Fuel Leak Case # RO0000382
GeoTracker Global ID # T0600100980

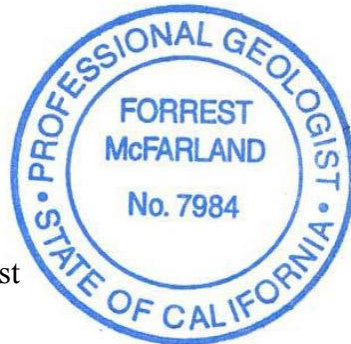
Dear Ms. Fong:

Ninyo & Moore is pleased to present this 4th Quarter 2016 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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Senior Environmental Geologist



Peter D. Sims
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Principal Environmental Geologist

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Distribution: (1) Addressee (via e-mail)
(1) Kit Soo, Alameda County Environmental Health (via e-mail)

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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 4th Quarter 2016 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 4th quarter 2016 relating to the site's groundwater recirculation 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. In addition, this report will evaluate the effectiveness of the remediation system and perimeter groundwater monitoring well network.

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.

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 4th Quarter 2016 were performed by Ninyo & Moore from October 14, 2016 through January 4, 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

Monthly system O&M activities occurred on October 26, December 1, and January 4, 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 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 in samples collected at INF decreased slightly from August to September and continued to decrease in October and December. Concentrations of benzene in samples collected at INF decreased from October to January to concentrations below laboratory reporting limits. The EFF samples collected during the 4th quarter of 2016 were non-detect for the site COCs indicating that the recirculated water is acceptable for groundwater plume treatment. The GAC samples collected were also non-detect for site COCs with the exception of TPHg and VOC detections in the GAC sample collected in January, which indicates that the granulated carbon in the lead vessel reached saturation and is in need of replacement. Because the granulated carbon in the lead vessel has reached saturation, influent water is currently treated by the lag GAC vessel.

3.3. Bag Filter Change Out

The remediation system's bag filters were replaced on October 12 and 27, November 13 and 23, and December 14, 2016, due to elevated pressure readings. During these bag replacements, reddish-brown color was observed in the filters indicative of bacterial growth and biofouling. 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 were securely stored in the site's garage pending proper waste characterization and offsite disposal.

4. GROUNDWATER MONITORING

Ninyo & Moore conducted the 4th Quarter 2016 groundwater monitoring event on December 1 and 2, 2016. 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 8015B;
- VOCs by USEPA Method 8260B;
- iron, manganese, and potassium by USEPA Method 200.7;
- nitrate, nitrite, phosphate, and sulfate by USEPA Method 300.0;
- ferric iron by calculation;
- ferrous iron by Standard Method (SM) 3500-Fe D; and
- nitrogen as ammonia by SM 4500-NH3 D.

5. GROUNDWATER SAMPLING RESULTS

The following section summarizes the results of the 4th Quarter 2016 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, benzene, and naphthalene are illustrated on Figures 7, 8, and 9, 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 and benzene concentrations in groundwater for select wells are presented on Graphs 1 and 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 4th Quarter 2016 Groundwater Monitoring event, groundwater was highest at MW-5R. The high groundwater elevations on the site are caused by the injection of amended water into the subsurface via the horizontal injection piping (injection piping IN-1 through IN-3) and vertical injection wells (injection wells EW-14 through EW-19). The groundwater elevation gradient slopes downward most steeply to the southwest towards extraction well EW-20 and to the east-northeast towards extraction well EW-22, demonstrating the effect of the remediation system on 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), Shallow Groundwater, Residential Scenario dated February 2016 (Revision 3)¹ also known as Environmental Screening Levels (ESLs). 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 has not been established. TPHg was not detected above the laboratory reporting limit of 50 µg/L in wells MW-6R, 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 63,000 µg/L (well MW-5R).

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

- The TPHg concentration in the groundwater sample collected from well MW-5R has increased since the 3rd Quarter 2016 (previous) monitoring event. An increase in the TPHg concentration in this well is likely due its proximity to extraction well EW-20 and the contaminated groundwater plume migration during remediation system operations.
- TPHg concentrations in groundwater samples collected from wells MW-4R, MW-6R, MW-7R, MW-11R, and MW-14 have decreased since the previous monitoring event. MW-7R lies in the center of the contaminated groundwater plume and decreases in TPHg concentrations in this well are indicative that progress is being

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.

made in reducing the gross contamination of the plume. Additionally, MW-14 and MW-6 are on the edge of the plume, and a decrease 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 1.1 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 2,900 µg/L (well MW-11R).

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

- The benzene concentration in the groundwater sample collected from well MW-11R increased since the previous monitoring event. An increase in the TPHg concentration in this well is likely due its proximity to extraction well EW-22 and the contaminated groundwater plume migration during remediation system operations.
- Benzene concentrations in groundwater samples collected from wells MW-4R, MW-5R, MW-6R, MW-7R, and MW-14 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.

5.2.3. Other VOCs in Groundwater

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

- The concentrations of toluene reported ranged from not detected above the laboratory reporting limit to 13,000 µg/L in MW-5R.
- The concentrations of ethylbenzene reported ranged from not detected above the laboratory reporting limit to 4,100 µg/L in MW-5R.

- The concentrations of total xylenes reported ranged from not detected above the laboratory reporting limit to 24,000 µg/L in MW-5R.
- The concentrations of naphthalene reported ranged from not detected above the laboratory reporting limit to 670 µg/L in MW-5R.

5.2.4. Bioattenuation Parameters

Groundwater samples were submitted for laboratory analysis of iron, nitrate, nitrite, ferric iron, 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.

The bioattenuation process that's 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 reduction and is evaluated by DO concentrations. Anaerobic bioattenuation takes place as anaerobic reduction 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 4th Quarter 2016 monitoring event ranged from -116mV to 166 mV. Since the 3rd Quarter 2016 event, ORP values have increased in monitoring wells MW6R, MW-8, MW9, MW10, MW-13, MW-15, and MW-16 and decreased in monitoring wells MW-4R, MW-5R, MW7R, MW-11R MW-12, and MW-14. Since the remediation system activation, ORP values have overall remained positive or trended toward more positive values with the exception of a short term

decreasing trend in wells MW-4R, MW-5R, MW-7R, MW-11R, MW12, and MW-14 where concentrations of site COCs remain relatively high.

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 4th quarter 2016 monitoring event ranged from 1.51 milligrams per liter (mg/L) to 9.06 mg/L. The measured levels of DO have increased from the previous quarter in all monitored wells indicating that conditions are more favorable for aerobic reduction since the previous monitoring event.

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 activation.

Nitrate concentrations have increased relative to the previous monitoring events in monitoring wells MW-9, MW-10, MW-11R, MW-13, MW-14, MW-15, and MW-16, while nitrate 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 system, while decreasing nitrate concentrations may represent microbial utilization. Nitrite was not detected in monitored wells during the 4th quarter 2016 event. Nitrogen was detected in wells MW-4R, MW-5R, MW-

6R, and MW-7R at concentrations relatively stable compared to previous monitoring events. Because nitrite was not detected and detected nitrogen concentrations are relatively stable it is unlikely that nitrate reduction is occurring strongly in the groundwater plume.

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 9.7 mg/l in MW-8. Generally, the concentration of ferric iron is higher in relation to the concentrations reported of ferrous iron. The presence of detectable ferrous iron concentrations may be caused by reduction of ferric iron to ferrous iron due to microbial utilization in the subsurface. However, the relatively lower concentrations of ferrous iron compared to concentrations of ferric iron indicate that ferrous iron reduction is not occurring strongly in the groundwater plume.

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 in the 4th quarter 2016 event.

5.2.4.6. *Bioattenuation Summary*

Since the remediation system activation in 2014 the monitored wells have generally trended toward ORP values that were positive or were trending toward more positive values indicating a gradual shift toward stronger aerobic bioattenuation with the exception of a short term decreasing ORP trend in wells MW-4R, MW-5R, MW-7R, MW-11R, MW12, and MW-14 where concentrations of site COCs remain

relatively high. However, DO increased in all monitored wells in the 4th quarter 2016 from the previous monitoring event which indicates that conditions in the groundwater plume continue to be more favorable for aerobic reduction of site COCs. It is likely that the continued addition of DO in the amended water supplied to the subsurface by the remediation system will continue to increase ORP values in the future. There is some evidence for weak anaerobic reducing conditions in the form of denitrification and ferrous iron reduction in the groundwater plume, but it is unlikely that anaerobic reduction is contributing significantly to bioattenuation.

Continued microbial growth in the subsurface appears to be taking place, as evidenced by biofouling in the bag filters. 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 nitrite. Samples MW-10, MW-13, MW-14, and MW-15 were impacted; however, the samples were reported as non-detect, so the data was reported.

Method 8260B: The MS/MSD recoveries for analytical batch 720-214165 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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 500 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, well MW-6R was non-detect for TPHg and benzene for the first time since 2010. 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 in length in the northeast-southwest directions. 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 2,900 µg/L in December 2016. 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.
- **Benzene, ethylbenzene, and naphthalene concentrations in soil gas 5 feet below ground surface (bgs) will be less than the concentrations presented in Appendix 4, Scenario 4 of the Low-Threat Closure Policy (SWRCB, 2012)** – Continued operation of the remediation system is expected to meet this condition. Confirmation soil gas samples will be collected to evaluate this criterion.

8. CONCLUSIONS

Ninyo & Moore presents the following conclusions:

- Remediation system O&M activities were performed biweekly between October 26, and January 4, 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 October 26, December 1, and January 4, 2017. Analysis of remediation system samples indicated that the remediation system is operating properly. The EFF samples collected during the 4th quarter of 2016 were non-detect for the site COCs indicating that the recirculated water is acceptable for groundwater plume treatment. The GAC samples collected were also non-detect for site COCs with the exception of TPHg and VOC detections in a GAC sample collected in January, which indicates that the granulated carbon in the lead vessel reached saturation and is in need of replacement. As a result of the lead vessel granulated carbon saturation the influent water is currently treated by the lag GAC vessel. We recommend replacing the granulated carbon during the 1st quarter 2017.
- The 4th Quarter 2016 groundwater monitoring and sample collection was performed on December 1st and 2nd, 2016.
 - Based on depth to water measurements collected during the 4th Quarter 2016 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 TPHg and/or VOC concentrations in groundwater exceed their respective ESLs in wells MW-4R, MW-5R, MW-7R, MW-8, MW-11R, MW-12 and MW-14.
 - Monitoring wells MW-4R, MW-7R, MW-11R, and MW-14 have decreased or stable TPHg concentrations; MW-5R, MW-8, and MW-12 had increasing TPHg concentrations; and MW-6R, MW-9, MW-10, MW-13, MW-15, and MW-16 were non-detect for TPHg.
 - Monitoring wells MW-4R, MW-5R, MW-7R, and MW-14 have decreased or stable benzene concentrations; MW-8, MW-11R, and MW-12 have increased benzene concentrations; and MW-6R, MW-9, MW-10, MW-13, MW-15, and MW-16 were non-detect for benzene.
 - Reductions in the TPHg and benzene concentrations detected in groundwater samples and the reduction in total area of the plume indicate the groundwater plume is undergoing remediation. The area of the TPHg and benzene groundwater plume has been stabilized in the north-south direction and reduced in the east-west direction compared to the groundwater monitoring event performed before remediation system activation in June of 2014. Concentrations of TPHg and benzene in most 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. Overall, aerobic bioattenuation of the groundwater plume continues to strengthen. However, evidence of a short term decrease in the strength of aerobic bioattenuation in the most contaminated portions of the plume was observed during the 4th Quarter 2016 evidenced by decreasing ORP values in certain wells. Because DO concentrations increased in all monitored wells during the 4th quarter 2016, conditions in the groundwater plume continue to be more favorable for aerobic reduction of site COCs. Continued operation of the remediation system will increase DO in the subsurface and drive aerobic bioattenuation through DO reduction. Anaerobic bioattenuation may be occurring secondarily, but it is unlikely that anaerobic reduction is contributing significantly to bioattenuation.

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. The granulated carbon in the lead GAC vessel will be changed out in the 1st quarter 2017.

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

TABLE 1 – MONITORING WELL INVENTORY

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 May 28, 2015.
6/18/15 8:25	20,120	2.1	41,810	294,370	50	0	Bag filters changed out on June 11, 2015
7/1/15 16:15	19,190	2.7	52,130	320,500	50	0	Bag filters changed out on June 25, 2015.
7/16/15 11:32	21,317	2.9	61,830	320,500	50	0	Bag filters changed out on July 8, 2015.
7/29/15 8:24	18,532	2.9	54,610	375,000	50	0	Bag filters changed out on July 30, 2015.
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 August 27, 2015
9/10/15 16:00	20,160	3.1	62,370	455,560	50	0	Bag filters changed out on September 11, 2015
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 October 8, 2015
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 October 29, 2015.
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 November 8, 2015.
11/19/15 8:52	19,747	1.7	34,380	576,920	50	5	Bag filters changed out on November 24, 2015.
12/3/15 16:30	20,618	1.8	36,640	604,550	50	5	Bag filters changed out on December 8, 2015. Dilute hydrogen peroxide injection was performed on December 12, 2015.
12/17/15 14:20	20,030	1.7	33,510	630,030	50	5	Bag filters changed out on December 21, 2015.
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 January 22, 2016.
1/28/16 9:00	21,210	2.0	43,240	695,990	100	5	Bag filters changed out on February 10, 2016
2/11/16 15:00	20,520	1.4	29,530	714,020	100	5	Bag filters changed out on February 23, 2016
2/25/16 8:30	19,770	1.9	36,950	732,050	100	5	Bag filters changed out on March 7, 2016
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 April 13, 2016
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	

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

5/17/16 14:00	17,680	2.4	41,970	856,370	0	0	Bag filters changed out on May 18, 2016
6/3/16 11:40	24,340	1.4	33,650	877,140	50	5	Bag filters changed out on June 9, 2016
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 July 1, 2016
7/15/16 16:00	20,680	2.4	50,370	950,420	50	5	Bag filters changed out on July 20, 2016
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 August 13, 2016
8/31/16 16:00	21,660	1.8	39,890	1,032,370	50	0	Bag Filters changed out on August 23. EW-20 totalizer was noted as broken on August 31, 2016, 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 September 15, 2016. 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, 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 December 14, 2016
1/4/17 8:00	22,528	1.3	28,390	1,225,500	50	0	
Totals	1,097,220		1,921,529		3,000	170	

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
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

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

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

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

Date/Time	Elapsed Time	EXTRACTION WELLS								
		EW-20			EW-22			EW-21		
		Reading	Volume	Rate	Reading	Volume	Rate	Reading	Volume	Rate
		(min)	(gal)	(gal)	(gpm)	(gal)	(gal)	(gpm)	(gal)	(gal)
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
4/22/16 7:10	21,115	640,610	550	0.03	282,560	3,220	0.15	383,040	4,730	0.22

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

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

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-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	

**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-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-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-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-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		

**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-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-9	05/10/12	27.23	15.09	6.25	6.25	0.00	20.98	NA	NA	2" Diameter well
MW-9	11/14/12	27.23	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-9	04/17/13	27.23	NM	NM	NM	NM	NA	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	Cloudy, no odor
MW-10	05/10/12	27.45	13.12	6.49	6.49	0.00	20.96	NA	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	Slow-moving water, copious bubbles
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	Turb flashed 1,000
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	

**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-11R	05/10/12	28.92	23.87	8.02	8.02	0.00	20.90	NA	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	Turbidity reading repeatedly flashed "0.00"
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	Murky purge water
MW-11R	12/01/16	28.92	23.94	9.56	9.56	0.00	19.36	Rise	0.11	Hydrocarbon odor
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	06/26/14	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-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	

**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-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-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-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	

**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-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		
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
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		

**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)	Change in Groundwater Elevation (feet)	Comments
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	
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	

**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-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	

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	
		Analytical Results (ug/L)																											
MW-2R	5/10/2012	57,000	9,400	6,500	1,100	5,100	<25	380	<25	<25	<25	1,100	310	30	<25	<25	<25	<25	<25	<25	96	51	<25	270	<25	<25	<25	<25	
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	<10	89	<0.50	<0.50	<0.50	<0.50	210	63	2.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	42	13	91	10	<0.50	<0.50	<0.50	
MW-4R	11/14/2012	420	51	0.66	0.66	2.54	<10	68	<0.50	<0.50	<0.50	<0.50	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	47	3.9	7.8	9.1	<0.50	<0.50	<0.50	
MW-4R	4/17/2013	2,000	190	140	46	155	<10	62	<0.50	1.0	<0.50	<0.50	28	7.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.33 J	<0.50	30	4.6	51	7.0	<0.50	<0.50	<0.50
MW-4R	6/25/2014	740	55	0.37 ^J	1.7	0.59 ^J	<10	46	<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	13	2.3	27	3.0	<0.50	<0.50	<0.50	
MW-4R	12/4/2014	2,000	160	1.3	4.7	12	<10	150	<0.50	<0.50	<0.50	<0.50	4.2	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	--	<0.50	70	18.0	140	11	<0.50	<0.50	<0.50	
MW-4R	12/31/2014	1,200	13	21	3.1	340	<50	57	<2.5	<2.5	<2.5	<2.5	130	20	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	12	5.8	5.5	<5.0	<2.5	<5.0	<2.5	
MW-4R	1/22/2015	1,800	140	87	15	720	<50	96	<2.5	<2.5	<2.5	<2.5	180	11	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	12	<5.0	8	<5.0	<2.5	<5.0	<2.5	
MW-4R	2/19/2015	4,000	880	130	23	1,300	<50	240	<2.5	<2.5	<2.5	<2.5	270	21	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	27	8.6	16	6	<2.5	<5.0	<2.5	
MW-4R	6/11/2015	1,600	590	24	6.8	340	<50	280	<2.5	<2.5	<2.5	<2.5	65	6.3	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	70.0	6.0	<5.0	10	<2.5	<5.0	<2.5	
MW-4R	8/11/2015	1,200	360	<5.0	<5.0	130	<50	200	<2.5	<2.5	<2.5	<2.5	<5.0	<5.0	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	62	<5.0	<5.0	<5.0	<2.5	<5.0	<2.5	
MW-4R	11/10/2015	7,900	1,600	1,900	430	1,300	<100	270	<5.0	<5.0	<5.0	<5.0	360	77	<10	<5.0	<10	<10	<5.0	--	<10	73	20	69	13	<5.0	<10	<5.0	
MW-4R	2/2/2016	5,000	720	710	200	1,000	<200	160	<10	<10	<10	<10	210	42	<20	<10	<20	<20	<10	--	<20	32	<20	26	<20	<10	<20	<10	
MW-4R	5/16/2016	10,000	1,500	2,500	530	2,500	<200	230	<10	<10	<10	<10	290	63	<20	<10	<20	<20	<10	--	<20	56	<20	47	<20	<10	<20	<10	
MW-4R	8/16/2016	18,000	1,900	3,800	980	4,500	<200	230	<10	<10	<10	<10	600	120	<20	<10	<20	<20	<10	--	<20	68	<20	99	<20	<10	<20	<10	
MW-4R	12/2/2016	13,000	1,500	3,100	940	4,000	<100	180	<5.0	<5.0	<5.0	<5.0	550	110	<10	<5.0	<10	<10	--	--	<10	56	12	76	10	<5.0	<10	<5.0	
MW-5R	5/10/2012	33,000	150	2,700	2,500	11,100	<500	680	<25	<25	<25	<25	2,400	620	52	<25	<25	<25	<25	<25	<25	210	99	630	46	<25	<25	<25	
MW-5R	11/14/2012	32,000	130	2,400	2,900	15,200	<100	620	<5.0	<5.0	<5.0	<5.0	3,600	720	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	180	90	490	33	<5.0	<5.0	<5.0	
MW-5R	4/17/2013	35,000	240	2,400	2,000	9,500	<100	400	<5.0	<5.0	<5.0	<5.0	2,200	510	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	140	59	390	<5.0	4.7 J	<5.0	<5.0	
MW-5R	6/25/2014	32,000	210	970	1,700	7,900	<100	470	<5.0	<5.0	<5.0	<5.0	2,200	400	40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	120	55	330	20	<5.0	<5.0	<5.0	
MW-5R	12/4/2014	32,000	1,400	3,700	2,100	9,500	<1,000	720	<50	<50	<50	<50	1,700	410	<100	<50	<100	<100	<50	--	<100	170	<100	470	<100	<50	<100	<50	
MW-5R	12/31/2014	47,000	1,000	5,900	2,100	14,000	<1,000	890	<50	<50	<50	<50	2,900	620	<100	<50	<100	<100	<50	--	<100	160	<100	380	<100	<50	<100	<50	
MW-5R	1/22/2015	45,000	1,200	8,900	2,300	15,000	<1,000	870	<50	<50	<50	<50	2,500	510	<100	<50	<100	<100	<50	--	<100	160	<100	340	<100	<50	<100	<50	
MW-5R	2/19/2015	50,000	1,600	11,000	2,600	17,000	<1,000	760	<50	<50	<50	<50	2,600	520	<100	<50	<100	<100	<50	--	<100	150	<100	300	<100	<50	<100	<50	
MW-5R	6/11/2015	51,000	1,800	7,600	4,200	23,000	<1,000	1,000	<50	<50	<50	<50	3,200	760	<100	<50	<100	<100	<50	--	<100	220	<100	450	<100	<50	<100	<50	
MW-5R	8/11/2015	39,000	1,200	4,100	2,900	17,000	<1,000	590	<50	<50	<50	<50	1,800	390	<100	<50	<100	<100	<50	--	<100	100	<100	210	<100	<50	<100	<50	
MW-5R	11/10/2015	48,000	1,800	7,700	3,800	24,000	<1,000	700	<50	<50	<50	<50	2,200	470	<100	<50	<100	<100	<50	--	<100	110	<100	270	<100	<50	<100	<50	
MW-5R	2/2/2016	58,000	1,100	9,300	2,700	18,000	<1,000	640	<50	<50	<50	<50	2,300	510	<100	<50	<100	<100	<50	--	<100	92	<100	230	<100	<50	<100	<50	

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
		Analytical Results (ug/L)																										
MW-5R	5/16/2016	30,000	2,000	7,800	1,300	8,900	<1,000	640	<50	<50	<50	<50	820	190	<100	<50	<100	<100	<50	--	<100	85	<100	110	<100	<50	<100	<50
MW-5R	8/16/2016	62,000	2,400	14,000	3,800	20,000	<1,000	690	<50	<50	<50	<50	2,300	520	<100	<50	<100	<100	<50	--	<100	120	<100	300	<100	<50	<100	<50
MW-5R	12/2/2016	63,000	1,100	13,000	4,100	24,000	<1,000	670	<50	<50	<50	<50	2,600	580	<100	<50	<100	<100	<50	--	<100	<100	<100	320	<100	<50	<100	<50
MW-6R	5/10/2012	3,600	8.6	52	120	680	<10	79	<0.50	<0.50	<0.50	<0.50	210	67	16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	20	25	50	9.9	<0.50	<0.50	<0.50
MW-6R	11/14/2012	900	2.4	7.1	83	131	<10	30	<0.50	<0.50	<0.50	<0.50	61	13	0.61	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	12	3.2	28	3.1	<0.50	<0.50	<0.50
MW-6R	4/17/2013	1,800	220	21	64	157	<10	29	<0.50	<0.50	<0.50	<0.50	60	14	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	24	2.1	27	7.6	<0.50	<0.50	<0.50
MW-6R	6/25/2014	1,700	4.3	9.4	55	181	<10	49	<0.50	<0.50	<0.50	<0.50	72	13	2.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	17	3.4	32	4.5	<0.50	<0.50	<0.50
MW-6R	12/4/2014	3,700	73	38	79	810	<10	160	<0.50	<0.50	<0.50	<0.50	210	74	1.2	<0.50	<0.50	<0.50	19	--	<1.0	66	16	140	10	<0.50	<1.0	<0.50
MW-6R	12/31/2014	1,800	5.0	22	9.0	250	<50	240	<2.5	<2.5	<2.5	<2.5	90	21	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	66	14	42	11	<2.5	<5.0	<2.5
MW-6R	1/22/2015	2,000	110	27	9.7	390	<50	260	<2.5	<2.5	<2.5	<2.5	140	30	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	59	13	9.2	13	<2.5	<5.0	<2.5
MW-6R	2/19/2015	2,700	54	53	18	730	<50	230	<2.5	<2.5	<2.5	<2.5	260	55	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	47	13	11	12	<2.5	<5.0	<2.5
MW-6R	6/11/2015	1,600	12	46	32	620	<50	120	<2.5	<2.5	<2.5	<2.5	170	29	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	30	9.4	17	8.7	<2.5	<5.0	<2.5
MW-6R	8/11/2015	1,700	22	91	60	580	<50	69	<2.5	<2.5	<2.5	<2.5	110	13	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	18	<5.0	8.9	<5.0	<2.5	<5.0	<2.5
MW-6R	11/10/2015	1,400	23	140	61	520	<50	100	<2.5	<2.5	<2.5	<2.5	96	5.6	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	19	6.2	9.1	6.1	<2.5	<5.0	<2.5
MW-6R	2/2/2016	560	8.7	81	20	160	<50	6.3	<2.5	<2.5	<2.5	<2.5	21	<2.5	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	<2.5	<5.0	<5.0	<5.0	<2.5	<5.0	<2.5
MW-6R	5/16/2016	600	20	99	21	150	<10	18	<0.50	<0.50	<0.50	<0.50	21	2.4	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	3.5	1.6	2.4	1.3	<0.50	<1.0	<0.50
MW-6R	8/16/2016	970	20	120	32	210	<10	39	<0.50	<0.50	<0.50	<0.50	26	3.1	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	22	5.8	6.2	7.6	<0.50	<1.0	<0.50
MW-6R	12/2/2016	<50	<0.50	<0.50	<0.50	6.3	<10	2.4	<0.50	<0.50	<0.50	<0.50	3.6	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	0.98	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-7R	5/10/2012	160,000	14,000	42,000	3,900	26,700	<1,000	660	<25	<25	<25	<25	3,300	960	49	<25	<25	<25	<25	<25	<25	120	<25	370	26	<25	<25	<25
MW-7R	11/14/2012	84,000	15,000	26,000	3,700	19,300	<1,000	480	<100	<100	<100	<100	2,300	610	<100	<100	<100	<100	<100	<100	<100	120	48 J	370	<100	<100	<100	<100
MW-7R	4/17/2013	160,000	17,000	45,000	4,500	22,300	<1,000	350	<100	<100	<100	<100	2,000	580	<100	<100	<100	<100	<100	<100	<100	98 J	<100	300	<100	<100	<100	<100
MW-7R	6/25/2014	240,000	18,000	38,000	3,900	21,100	<1,000	630	<50	<50	<50	<50	2,200	560	180	<50	<50	<50	<50	<50	<50	89	<50	270	<50	<50	<50	<50
MW-7R	12/4/2014	110,000	15,000	36,000	4,000	21,000	<1,000	660	<50	<50	<50	<50	2,400	630	<100	<50	<100	<100	<50	--	<100	110	<100	320	<100	<50	<100	<50
MW-7R	12/31/2014	110,000	11,000	38,000	3,800	22,000	<5,000	690	<250	<250	<250	<250	2,100	560	<500	<250	<500	<500	<250	--	<500	<250	<500	<500	<500	<250	<500	<250
MW-7R	1/22/2015	110,000	11,000	42,000	4,000	23,000	<5,000	720	<250	<250	<250	<250	2,100	520	<500	<250	<500	<500	<250	--	<500	<250	<500	<500	<500	<250	<500	<250
MW-7R	2/19/2015	92,000	7,000	33,000	3,400	20,000	<5,000	520	<250	<250	<250	<250	1,900	460	<500	<250	<500	<500	<250	--	<500	<250	<500	<500	<500	<250	<500	<250
MW-7R	6/11/2015	78,000	3,200	29,000	3,800	23,000	<5,000	730	<250	<250	<250	<250	2,100	560	<500	<250	<500	<500	<250	--	<500	<250	<500	<500	<500	<250	<500	<250
MW-7R	8/11/2015	69,000	1,600	20,000	3,200	22,000	<5,000	520	<250	<250	<250	<250	1,700	400	<500	<250	<500	<500	<250	--	<500	<250	<500	<500	<500	<250	<500	<250
MW-7R	11/10/2015	55,000	650	11,000	2,500	21,000	<5,000	710	<250	<250	<250	<250	2,100	530	<500	<250	<500	<500	<250	--	<500	<250	<500	<500	<500	<250	<500	<250
MW-7R	2/2/2016	55,000	1,200	14,000	1,700	14,000	<5,000	<500	<250	<250	<250	<250	1,200	<250	<500	<250	<500	<500	<250	--	<500	<250	<500	<500	<500	<250	<500	<250
MW-7R	5/16/2016	55,000	1,000	11,000	2,300	18,000	<2,000	700	<100	<100	<100	<100	2,100	550	<200	<100	<200	<200	<100	--	<200	110	<200	230	<200	<100	<200	<100
MW-7R	8/16/2016	46,000	320	4,900	1,700	17,000	<2,000	860	<100	<100	<100	<100	2,200	550	<200	<100	<200	<200	<100	--	<200	110	<200	230	<200	<100	<200	<100
MW-7R	12/2/2016	40,000	<250	7,300	1,600	16,000	<5,000	560	<250	<250	<250	<250	1,800	<500	450	<500	<500	<500	<250	--	<500	<250	<500	<500	<500	<250	<500	<250
MW-8	5/10/2012	2,700	15	20	5.3	34	<10	72	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	24	1.7	24	3.8	<1.0	<1.0	<1.0
MW-8	11/14/2012	790	14	3.0	0.98	5.83	<10	14	<0.50	<0.50	<0.50	<0.50	0.39 J	0.41 J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	13.00	0.8	13	2.2	<0.50	0.38 J	<0.50
MW-8	4/17/2013	1,100	6.8	6.4	5.6	16.8	<10	21	<0.50	<0.50	<0.50	<0.50	1.9	1.6	<0.50	<0.50	2	<0.50	<0.50	<0.50	<0.50	9.90	0.89	11	1.6	<0.50	0.25 J	<0.50
MW-8	6/25/2014	420	2.4	2.2	0.6	3.64J	<10	12	<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	3.8	0.26J	3.7	0.67	0.91	<0.50	<0.50
MW-8	12/5/2014	1,900	22	52	11	63	<10	46	<0.50	<0.50	<0.50	<0.50	6.3	2.4	<1.0	<0.50	<1.0	<1.0	<									

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene		
		Analytical Results (ug/L)																												
MW-8	8/11/2015	1,600	15	15	3.7	23	18	83	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	22	2.1	23	3.5	<0.50	<1.0	<0.50		
MW-8	11/10/2015	1,600	20	8.1	2.5	14	13	44	<0.50	<0.50	<0.50	<0.50	<0.50	0.78	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	20	1.9	20	3.4	<0.50	<1.0	<0.50		
MW-8	2/2/2016	2,200	15	12.0	3.7	20	<10	74	<0.50	<0.50	<0.50	<0.50	<0.50	0.73	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	18	1.7	19	3.0	<0.50	<1.0	<0.50		
MW-8	5/16/2016	1,300	4.6	6.2	2.8	13	<10	39	<0.50	<0.50	<0.50	<0.50	<0.50	0.67	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	14	1.3	14	2.4	<0.50	<1.0	<0.50		
MW-8	8/16/2016	1,900	13	9.8	3.1	16	<10	47	<0.50	<0.50	<0.50	<0.50	<0.50	0.78	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	21	1.9	20	3.9	<0.50	<1.0	<0.50		
MW-8	12/2/2016	2,600	21	9.4	2.8	16	<10 F1	68	<0.50	<0.50	<0.50	<0.50	<0.50	0.88	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	24	2.5	25	4.3	<0.50	<1.0	<0.50		
MW-9	5/10/2012	<50	<0.50	<0.50	<0.50	<1.5	<10	<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	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-9	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<10	<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	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-9	12/5/2014	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-9	12/31/2014	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-9	1/22/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-9	2/19/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-9	6/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-9	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	--	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-9	11/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	0.82	<1.0	<1.0	<1.0	<1.0	1.3	<0.50	<1.0	<0.50
MW-9	2/2/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	0.82	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-9	5/16/2016	58	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	2.2	<1.0	<1.0	<1.0	3.9	<0.50	<1.0	<0.50	
MW-9	8/16/2016	100	<0.50	<0.50	<0.50	<1.0	<10	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	3.2	<1.0	<1.0	<1.0	3.9	<0.50	<1.0	<0.50	
MW-9	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-10	5/10/2012	<50	<0.50	<0.50	<0.50	<1.5	<10	<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	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-10	11/14/2012	<50	<0.50	<0.50	<0.50	ND<1.5	<10	<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	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-10	4/18/2013	530	20	110	19	97	<10	2.6	<0.50	<0.50	<0.50	<0.50	12	3.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.65	0.23 J	2.1	<0.50	<0.50	<0.50	<0.50		
MW-10	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<10	<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	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-10	12/5/2014	530	5.4	100	28	170	<10	7.4	<0.50	<0.50	<0.50	<0.50	22	6.5	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	1.5	<1.0	3.6	<1.0	<0.50	<1.0	<0.50		
MW-10	12/31/2014	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-10	1/22/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-10	2/19/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-10	6/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-10	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-10	11/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	1.5	<0.50	<1.0	<0.50
MW-10	2/2/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-10	5/16/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-10	8/16/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-10	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50																		

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	
		Analytical Results (ug/L)																											
MW-11R	12/31/2014	23,000	<50	240	480	5,400	<1,000	350	<50	<50	<50	2,300	680	<100	<50	<100	<100	<50	--	<100	71	<100	<50	190	<100	<50	<100	<50	
MW-11R	1/22/2015	20,000	<50	330	730	5,100	<1,000	350	<50	<50	<50	2,200	600	<100	<50	<100	<100	<50	--	<100	80	<100	<50	200	<100	<50	<100	<50	
MW-11R	2/20/2015	25,000	<50	580	980	6,700	<1,000	380	<50	<50	<50	2,500	670	<100	<50	<100	<100	<50	--	<100	87	<100	<50	200	<100	<50	<100	<50	
MW-11R	6/12/2015	29,000	180	1,400	1,600	9,900	<1,000	470	<50	<50	<50	2,900	770	<100	<50	<100	<100	<50	--	<100	120	<100	<50	330	<100	<50	<100	<50	
MW-11R	8/10/2015	38,000	660	4,600	2,000	14,000	<1,000	500	<50	<50	<50	2,800	670	<100	<50	<100	<100	<50	--	<100	100	<100	<50	310	<100	<50	<100	<50	
MW-11R	11/11/2015	27,000	1,700	1,500	1,000	6,300	<1,000	420	<50	<50	<50	1,900	460	<100	<50	<100	<100	<50	--	<100	83	<100	<50	220	<100	<50	<100	<50	
MW-11R	2/3/2016	25,000	970	1,600	900	5,800	<1,000	280	<50	<50	<50	1,700	430	<100	<50	<100	<100	<50	--	<100	57	<100	<50	150	<100	<50	<100	<50	
MW-11R	5/17/2016	26,000	1,500	3,700	1,000	7,100	<1,000	400	<50	<50	<50	1,600	440	<100	<50	<100	<100	<50	--	<100	71	<100	<50	180	<100	<50	<100	<50	
MW-11R	8/16/2016	15,000	2,200	1,900	900	2,500	<1,000	250	<50	<50	<50	800	210	<100	<50	<100	<100	<50	--	<100	60	<100	<50	100	<100	<50	<100	<50	
MW-11R	12/2/2016	13,000	2,900	2,000	660	2,400	<1,000	220	<50	<50	<50	<50	710	190	<100	<50	<100	<50	<100	--	<100	<50	<100	<100	<100	<50	<100	<50	
MW-12	5/10/2012	2,700	600	4.7	160	207	<10	26	<0.50	<0.50	<0.50	<0.50	13	23.00	0.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10	2.3	17	2.3	<0.50	<0.50	<0.50	
MW-12	11/14/2012	1,600	470	2.1	140	63.4	<20	26	<1.0	<1.0	<1.0	<1.0	2.3	20.00	0.40 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	8.5	2.1	14	2.1	<1.0	<1.0	1.2	
MW-12	4/17/2013	5,200	760	3.4	330	409	<40	40	<2.0	1.2 J	<2.0	<2.0	60	49.00	1.6 J	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1.8 J	22	3.7	36	7.4	<2.0	<2.0	<2.0
MW-12	6/25/2014	2,700	350	4.8	200	51	<20	93	<1.0	<1.0	<1.0	<1.0	11	28.0	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	17	3.9	23	3.2	<1.0	<1.0	<1.0	
MW-12	12/4/2014	1,700	260	150	160	130	<10	66	<0.50	<0.50	<0.50	<0.50	12	21.0	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	15	<5.0	20	2.3	<0.50	<1.0	<0.50	
MW-12	12/31/2014	680	120	<2.5	74	10	<50	34	<2.5	<2.5	<2.5	<2.5	6.7	<5.0	<2.5	<5.0	<5.0	<5.0	<2.5	--	<5.0	7.6	<5.0	11	<5.0	<2.5	<5.0	<2.5	
MW-12	1/22/2015	950	110	<2.5	110	12	<50	26	<2.5	<2.5	<2.5	<2.5	12.0	<5.0	<2.5	<5.0	<5.0	<5.0	<2.5	--	<5.0	9.4	<5.0	14	<5.0	<2.5	<5.0	<2.5	
MW-12	2/19/2015	410	43	<0.50	30	4.0	<10	7.7	1.4	1.0	<0.50	<0.50	<0.50	3.4	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	3.1	<1.0	4.2	<1.0	<0.5	<1.0	<0.5	
MW-12	6/12/2015	470	17	54	19	68	<10	5.2	4.5	2.0	<0.50	<0.50	5.5	1.8	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	1.5	<1.0	2.0	<1.0	<0.5	<1.0	<0.5	
MW-12	8/10/2015	350	25	59	18	130	<10	5.0	6.4	2.5	<0.50	<0.50	13	2.9	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	0.71	<1.0	1.0	<1.0	<0.5	<1.0	<0.5	
MW-12	11/11/2015	270	8.7	21	8.3	58	<10	4.2	4.0	2.8	<0.50	<0.50	4.7	0.99	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	1.1	<1.0	<1.0	<1.0	<0.50	<1.0	<0.5	
MW-12	2/3/2016	1,100	130	26	9.0	74	<10	4.1	3.2	2.8	<0.50	<0.50	9.4	2.2	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	4.2	<1.0	<1.0	<1.0	<0.50	<1.0	<0.5	
MW-12	5/17/2016	690	120	44	12.0	99	<10	7.9	2.5	2.0	<0.50	<0.50	13	3.4	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	1.9	<1.0	1.2	<1.0	<0.50	<1.0	<0.5	
MW-12	8/16/2016	1,100	580	8.5	6.2	39	<10	5.6	2.9	2.2	<0.50	<0.50	3.7	1.5	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	4.9	<1.0	1.8	1.3	<0.50	<1.0	<0.50	
MW-12	12/2/2016	3,200	1,900	<5.0	12	<10	<100	22	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<5.0	--	<10	17	<10	<10	<10	<5.0	<10	<5.0	
MW-13	5/10/2012	50	<0.50	<0.50	<0.50	<1.5	<10	<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	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-13	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<10	<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	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-13	12/4/2014	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	1.1	1.1	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-13	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	1/23/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	2.6	1.6	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-13	2/20/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	2.3	1.2	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-13	6/12/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	5.5	2.0	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-13	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	8.2	2.8	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-13	11/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	7.2	2.9	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-13	2/3/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	4.0	2.2	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-13	5/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	2.9	1.8	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-13	8/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	3.0	1.6	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-13	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	1.8	1.1	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	
		Analytical Results (ug/L)																											
MW-14	5/10/2012	<50	<0.50	<0.50	<0.50	<1.5	<10	<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	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-14	11/14/2012	<50	<0.50	<0.50	<0.50	<1.5	<10	<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	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-14	4/17/2013	60	<0.50	<0.50	2.9	15.7	<10	1.0	<0.50	<0.50	<0.50	<0.50	5.6	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.27 J	<0.50	0.60	<0.50	<0.50	<0.50	<0.50	
MW-14	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<10	<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	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-14	12/4/2014	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	
MW-14	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-14	1/23/2015	4,700	2,300	91	160	560	<500	<50	<25	<25	<25	<25	200	<25	<50	<25	<50	<50	<25	--	<50	<25	<50	<50	<50	<25	<50	<25	
MW-14	2/20/2015	12,000	6,200	230	76	1,500	<500	190	<25	<25	<25	<25	490	75	<50	<25	<50	<50	<25	--	<50	46	<50	<50	<50	<25	<50	<25	
MW-14	6/12/2015	3,800	1,500	31	140	140	<500	160	<25	<25	<25	<25	68	38	<50	<25	<50	<50	<25	--	<50	55	<50	<50	<50	<25	<50	<25	
MW-14	8/10/2015	5,900	2,700	130	600	430	<500	210	<25	<25	<25	<25	400	83	<50	<25	<50	<50	<25	--	<50	47	<50	<50	<50	<25	<50	<25	
MW-14	11/11/2015	3,300	920	25	280	360	<500	140	<25	<25	<25	<25	320	28	<50	<25	<50	<50	<25	--	<50	<25	<50	<50	<50	<25	<50	<25	
MW-14	2/3/2016	4,600	930	220	270	780	<100	110	<5.0	<5.0	<5.0	<5.0	280	44	<10	<5.0	<10	<10	<5.0	--	<10	19	<10	33	<10	<5.0	<10	<5.0	
MW-14	5/17/2016	37,000	3,800	7,000	1,800	7,700	<100	490	<5.0	<5.0	<5.0	<5.0	1,200	250	<10	<5.0	<10	<10	<5.0	--	<10	81	27	150	11	<5.0	<10	<5.0	
MW-14	8/17/2016	22,000	2,200	2,900	1,400	6,300	<2000	420	<100	<100	<100	<100	1,200	280	<200	<100	<200	<200	<100	--	<200	<100	<200	<200	<200	<100	<200	<100	
MW-14	12/1/2016	2,100	220	54	93	290	<50	220	<2.5	<2.5	<2.5	<2.5	200	23	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	33	14	32	7.0	<2.5	<5.0	<2.5	
MW-15	5/10/2012	1,800	1.6	1.4	130	38	<10	14	4.4	2.2	<0.50	<0.50	6.2	23.0	3	<0.50	<0.50	<0.50		<0.50	<0.50	22	3.2	28	7.0	<0.50	<0.50	<0.50	
MW-15	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	6/25/2014	140	<0.50	<0.50	<0.50	<0.50	<10	0.36J	0.72	<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	<0.50	<0.50	0.26J	<0.50	<0.50	<0.50	
MW-15	12/5/2014	260	1.6	34	10	57	11	3.7	1.2	<0.50	1.5	3.9	8	2.1	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	1.1	<1.0	<1.0	<1.0	<0.50	
MW-15	12/31/2014	440	9.9	110	17	110	<10	5.3	1.2	<0.50	<0.50	<0.50	16	3.7	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	0.64	<1.0	1.7	<1.0	<0.50	<1.0	<0.50	
MW-15	1/23/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	3.0	0.59	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-15	2/20/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	3.2	0.59	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-15	6/12/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	4.7	0.97	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-15	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	5.2	1.1	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-15	11/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	5.1	1.2	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-15	2/3/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	5.8	1.2	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-15	5/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	5.4	0.97	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-15	8/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	6.5	1.3	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-15	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	4.7	0.94	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-16	5/10/2012	180	<0.50	<0.50	<0.50	<1.5	<10	<0.5	2.3	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<0.5	<0.5	5.8	<0.50	<0.50	<0.50	
MW-16	11/14/2012	<50	<0.50	<0.50	<0.50	<1.5	<10	<0.5	1.2	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	1.5	<0.50	<0.50	<0.50	
MW-16	4/17/2013	2,900	3.3	1.1	230	11.3	<10	59	0.35 J	<0.50	<0.50	<0.50	3.4	26	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	43	12	72	13	<0.50	0.42 J	<0.50	
MW-16	6/25/2014	100	<0.50	<0.50	<0.50	<0.50	<10	<0.50	0.59	0.53	<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	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-16	12/5/2014	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-16	12/31/2014	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-16	1/23/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	0.61	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-16	2/20/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-16	6/12/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-16	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	0.56	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-16	11/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	1.1	0.74	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	
		Analytical Results (ug/L)																											
MW-16	5/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	1.9	1.2	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-16	8/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	1.8	1.2	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-16	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	1.2	1.1	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
EW-14	5/10/2012	33,000	4,200	3,300	2,200	10,100	<500	280	<25	<25	<25	1,200	300	<25	<25	<25	<25	<25	<25	<25	73	<25	<25	190	<25	<25	<25	<25	
EW-14	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-14	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-14	6/25/2014	19,000	5,200	80	290	558	<200	270	<10	<10	<10	79	26	<10	<10	<10	<10	<10	<10	<10	53	11	<10	100	8.4J	<10	<10	<10	
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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	<500	160	<25	<25	<25	690	180	<25	<25	<25	<25	<25	<25	<25	41	<25	<25	110	<25	<25	<25	<25	
EW-15	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-15	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-15	6/25/2014	35,000	8,000	850	630	1,700	<500	460	<25	<25	<25	420	110	<25	<25	<25	<25	<25	<25	<25	63	16J	<25	170	<25	<25	<25	<25	
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	10	0.86	0.60	<0.50	3.5	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	9.3	<0.5	<0.50	5.8	1.6	<0.50	<25	<25	
EW-16	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-16	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-16	6/25/2014	<50	<0.50	<0.50	<0.50	<0.50	<10	<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	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	
		Analytical Results (ug/L)																											
EW-17	5/10/2012	11,000	2,800	1,600	240	1,280	<500	210	<25	<25	<25	160	50	<25	<25	<25	<25	<25	<25	<25	52	<25	<27	140	<25	<25	<25	<25	
EW-17	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	6/25/2014	12,000	1,900	100	330	500	<100	720	<5.0	<5.0	<5.0	200	64	19	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	79	23	<5.0	210	13	<5.0	<5.0	<5.0	
EW-17	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	<50	480	<2.5	<2.5	<2.5	730	240	23	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	140	58	<2.5	370	23	<2.5	<2.5	<2.5	
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	<20	480	<1.0	<1.0	<1.0	360	110	9.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	120	40	<1.0	310	22	<1.0	<1.0	<1.0	
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	<20	190	<1.0	2.7	<1.0	12	4.2	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	82	9.6	<1.0	120	14	<1.0	0.94J	<1.0	
EW-20	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	
		Analytical Results (ug/L)																											
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	<10	0.4J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.53	<0.50	<0.50	<0.50
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	<10	0.55	<0.50	<0.50	<0.50	0.35J	0.29J	<0.50	0.77	<0.50	8.0	<0.50	<0.50	<0.50	0.31J	0.46J	<0.50	1.2	0.27J	<0.50	<0.50	<0.50	
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	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	6.8	<1.0	<0.50	<1.0	2.4	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
INF	1/2/2015	810	58	27	5.4	68	<10	9.4	1.0	1.2	<0.50	<0.50	3.1	18	<1.0	<0.50	<1.0	2.3	<0.50	--	<1.0	0.85	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	1/22/2015	980	97	27	4.2	110	<10	18	0.83	1.5	<0.50	<0.50	1.5	39	<1.0	<0.50	<1.0	2.4	<0.50	--	<1.0	0.75	2.5	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	2/19/2015	750	91	15	7.2	78	<10	1.9	0.71	0.98	<0.50	<0.50	1.5	32	<1.0	<0.50	<1.0	2.0	<0.50	--	<1.0	0.56	1.9	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	3/25/2015	750	20	3.9	1.6	87	<10	3.7	<0.50	<0.50	<0.50	<0.50	0.9	39	<1.0	<0.50	<1.0	2.3	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	4/23/2015	760	2.6	1.3	<0.50	100	<10	5.5	<0.50	0.62	<0.50	<0.50	<0.50	44	<1.0	<0.50	<1.0	2.0	<0.50	--	<1.0	<0.50	2.2	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	5/21/2015	370	0.57	<0.50	<0.50	25	<10	1.6	0.67	<0.50	<0.50	<0.50	<0.50	17	<1.0	<0.50	<1.0	1.7	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	6/18/2015	630	4.0	2.7	<0.50	100	<10	5.1	0.88	<0.50	<0.50	<0.50	2.4	30	<1.0	<0.50	<1.0	2.1	<0.50	--	<1.0	<0.50	1.6	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	7/16/2015	740	6.0	6.6	<0.50	170	<10	9.1	0.84	<0.50	<0.50	<0.50	9.3	39	<1.0	<0.50	<1.0	1.9	<0.50	--	<1.0	<0.50	2	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	8/27/2015	750	8.0	4.8	<0.50	100	<10	17	1.00	<0.50	<0.50	<0.50	<0.50	43	<1.0	<0.50	<1.0	1.6	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	9/24/2015	950	20	8.9	<0.50	190	<10	20	1.00	<0.50	<0.50	<0.50	5.4	43	<1.0	<0.50	<1.0	1.7	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	10/22/2015	910	33	13	<0.50	250	<10	27	1.3	0.65	<0.50	<0.50	51	30	<1.0	<0.50	<1.0	1.4	<0.50	--	<1.0	<0.50	1.5	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	11/19/2015	650	17	12	<0.50	160	<10	15	0.89	<0.50	<0.50	<0.50	20	22	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	1.2	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	12/17/2015	370	2.5	2.0	<0.50	61	<10	2.2	0.76	0.58	<0.50	<0.50	2.1	21	<1.0	<0.50	<1.0	1.3	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	1/28/2016	530	2.6	3.3	<0.50	86	<10	2.9	0.63	<0.50	<0.50	<0.50	4.4	20	<1.0	<0.50	<1.0	1.3	<0.50	--	<1.0	<0.50	1	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	2/25/2016	750	1.7	1.9	<0.50	95	<10	2.8	0.84	0.57	<0.50	<0.50	9.4	28	<1.0	<0.50	<1.0	1.4	<0.50	--	<1.0	<0.50	1.2	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	3/24/2016	600	10	7.4	<0.50	140	<10	9.1	0.74	0.53	<0.50	<0.50	11	23	<1.0	<0.50	<1.0	1.2	<0.50	--	<1.0	<0.50	1.2	<1.0	<1.0	<0.50	<1.0	<0.50	
INF	4/22/2016	1,000	21	22	<0.50	230	<10	16	0.61	<0.50	<0.50	<0.50	14	44	<1.0	<0.50	<1.0	1.7	<0.50	--	<1.0	<0.50	2.1	<1.0	<1.0	<0.50	<1.0	<0.50	

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene		
		Analytical Results (ug/L)																												
EFF	8/27/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
EFF	9/24/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
EFF	10/22/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
EFF	11/19/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
EFF	12/17/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
EFF	1/28/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
EFF	2/25/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
EFF	3/24/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
EFF	4/22/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
EFF	5/17/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
EFF	7/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
EFF	7/28/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
EFF	8/31/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
EFF	9/30/2016	<50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.580	--	<1.0	<0.050	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
EFF	10/26/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
EFF	12/1/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
EFF	1/4/2017	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50		
ESLs		--	1.1	3,600	13	1,300	NE	20	1,200	6.1	110	4,900	NE	NE	NE	--	--	2.3	NE	NE	--	NE	NE	NE	NE	NE	NE	30,000	NE	3.0

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.
 µg/L = micrograms per liter
 ESLs = Regional Water Quality Control Board, Table GW-3 Groundwater Vapor Intrusion Human Health Risk Screening Levels (Volatile Chemicals Only), updated February 2016
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).
 -- = Either the chemical is non-volatile or a toxicity value (IUR or RfC) was not available.
 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 samples collected on 1/22/15 and 1/4/17 were 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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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	

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-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-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	
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	0.210	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	--	--	0.50	1.7	0.43	20.50	728.0	7.17	0.00	-116.0	2.21	
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	

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-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-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	--	--	1.0	<1.0	--	--	1.5	2.4	0.86	20.67	484.0	6.81	9.18	-71.0	1.51	

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-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	9.7	<0.20	20.56	353.0	6.76	127.0	-33	9.06	
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	

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-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	--	--	180	<100	--	--	25	<0.10 HF	<0.20	20.06	468.0	6.65	157.0	134.0	4.00	
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	*	
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	--	--	190	<1.0	--	--	15	<0.10 HF	<0.20	21.44	625.0	6.65	149.0	133.0	4.99	
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	

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-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	<1.0	--	--	<0.10	11	<0.20	19.06	642.0	6.73	0	-86.0	2.68	
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	
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	0.3	
MW-12	12/2/2016	1.2	--	--	<1.0	<1.0	--	--	0.10	1.1	<0.20	19.83	557.0	6.67	0.0	-27.0	2.34	

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-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-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

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	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	
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-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	<0.10 HF	<0.20	19.67	636.0	7.27	114.0	134	4.38	
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	

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-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	<100	--	--	<0.10	<0.10 HF	<0.20	18.61	644.0	6.65	14.2	147.0	3.52	
EW-14	6/25/2014	6.2	1.0	3.2	<0.20	<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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

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-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	<.020	<.020	15	19	3.5	<.10	<.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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	6/25/2014	31	1.6	0.75	<.020	<.020	<.10	3.4	31	<.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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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-19	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	5/16/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

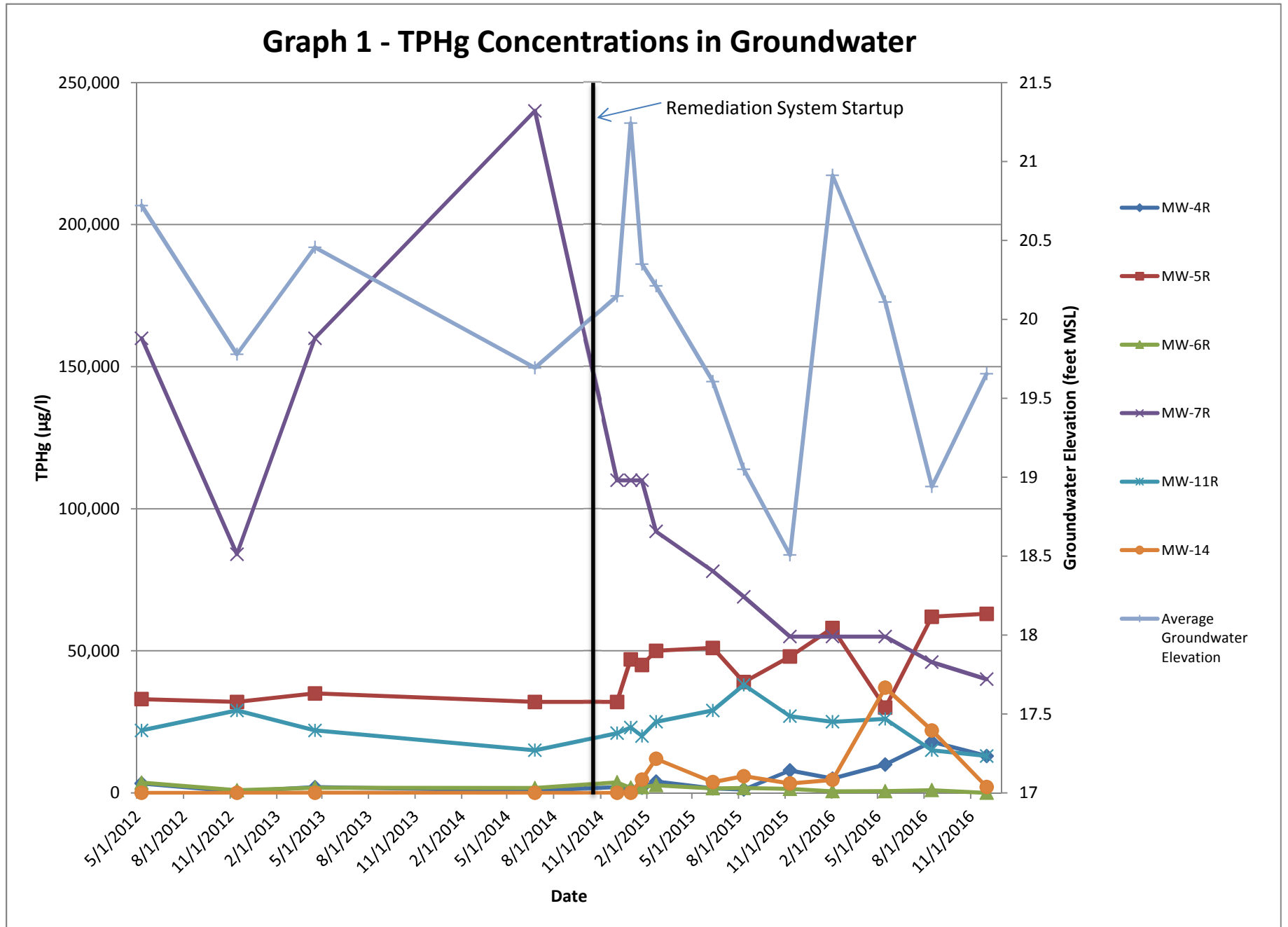
TABLE 5 – BIOATTENUATION MONITORING

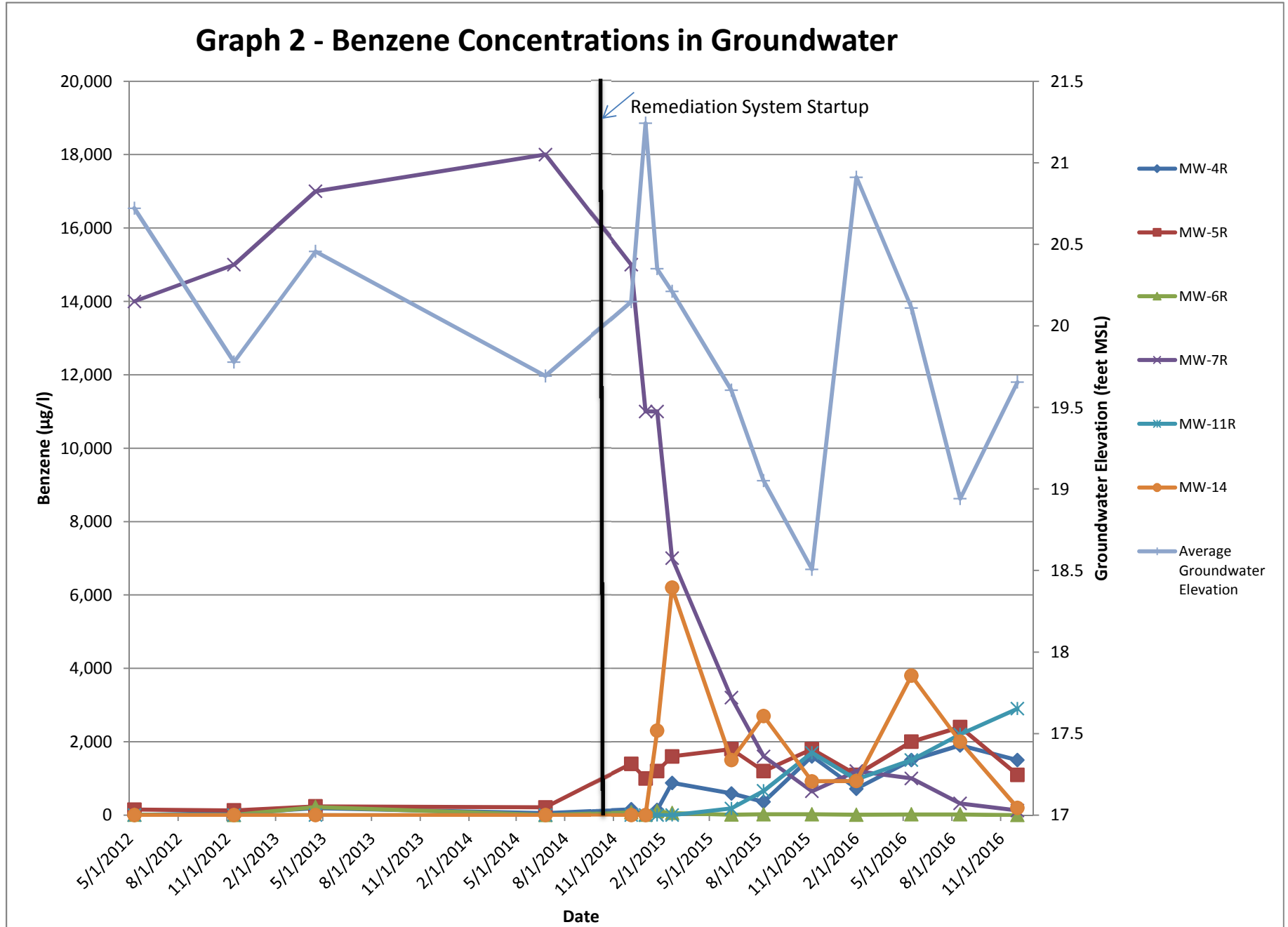
Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument						
		(mg/l)											Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia							
EW-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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

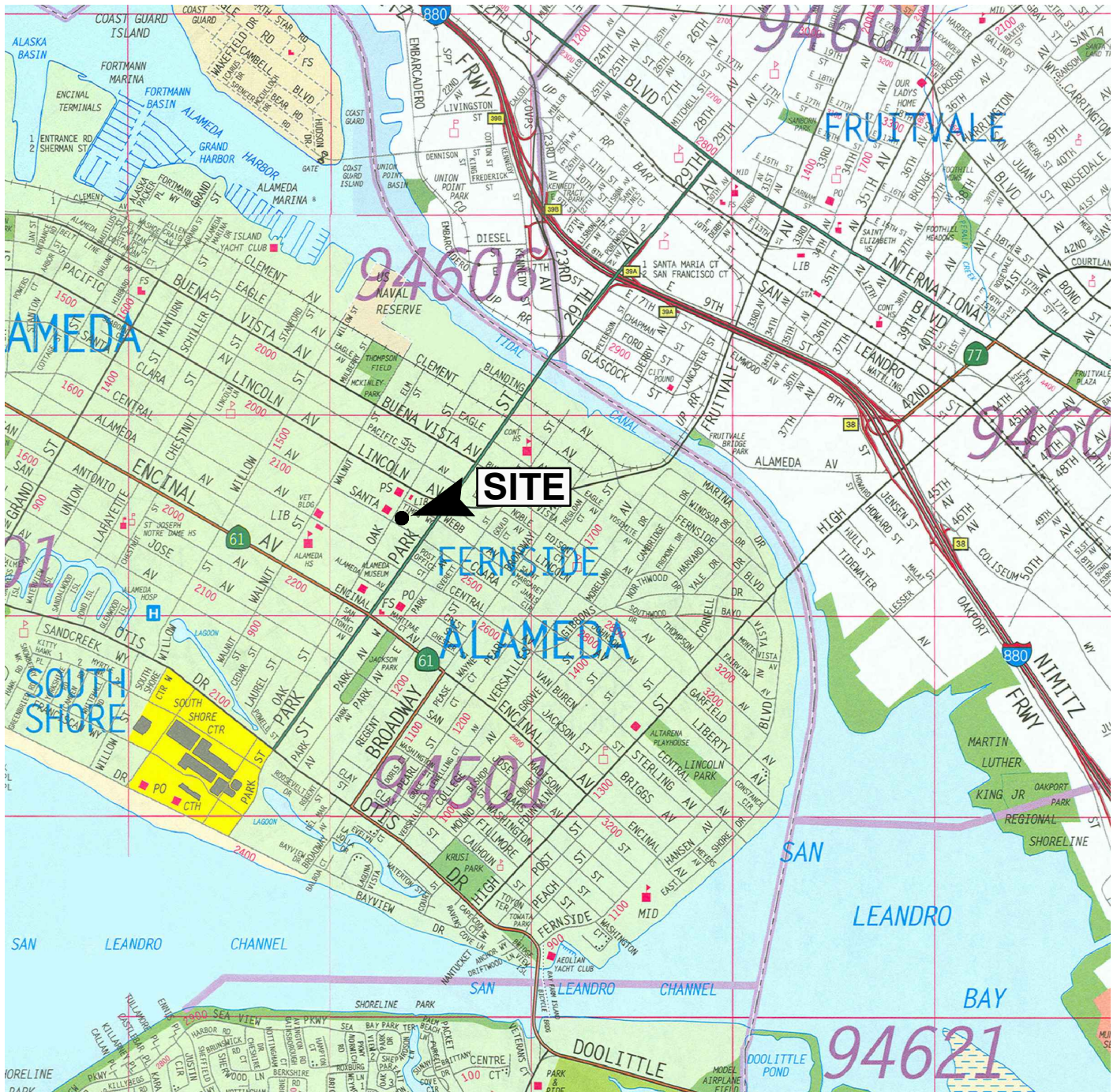
TABLE 5 – BIOATTENUATION MONITORING

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						

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 measured 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







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	3/17

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

1

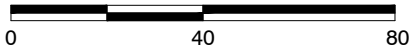
401896004-FIG1.dwg - 03/14/2017 - AOB - J.P.



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.

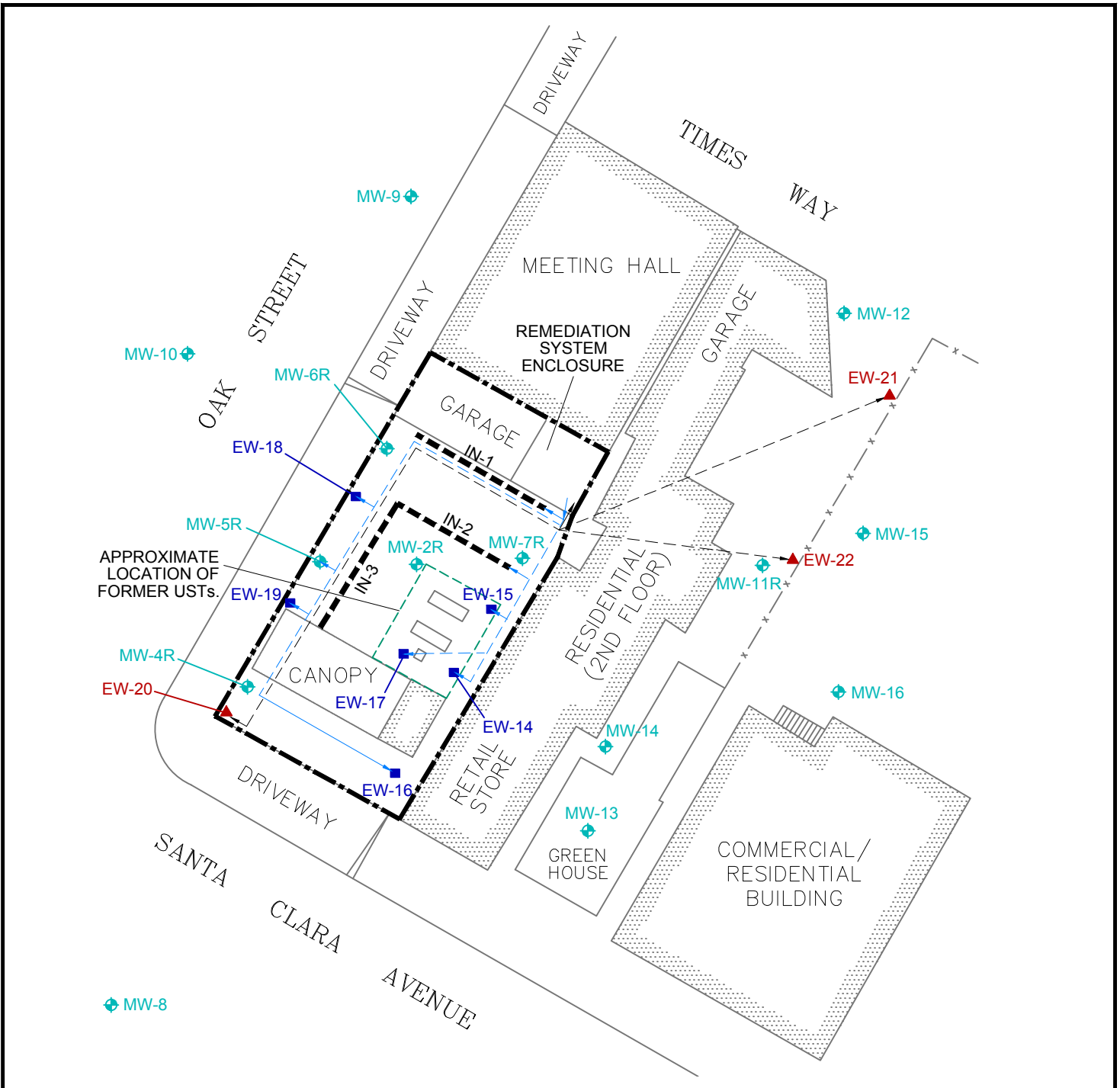
DATE

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

2

401896004

3/17



APPROXIMATE LOCATION OF FORMER USTs.



SCALE IN FEET



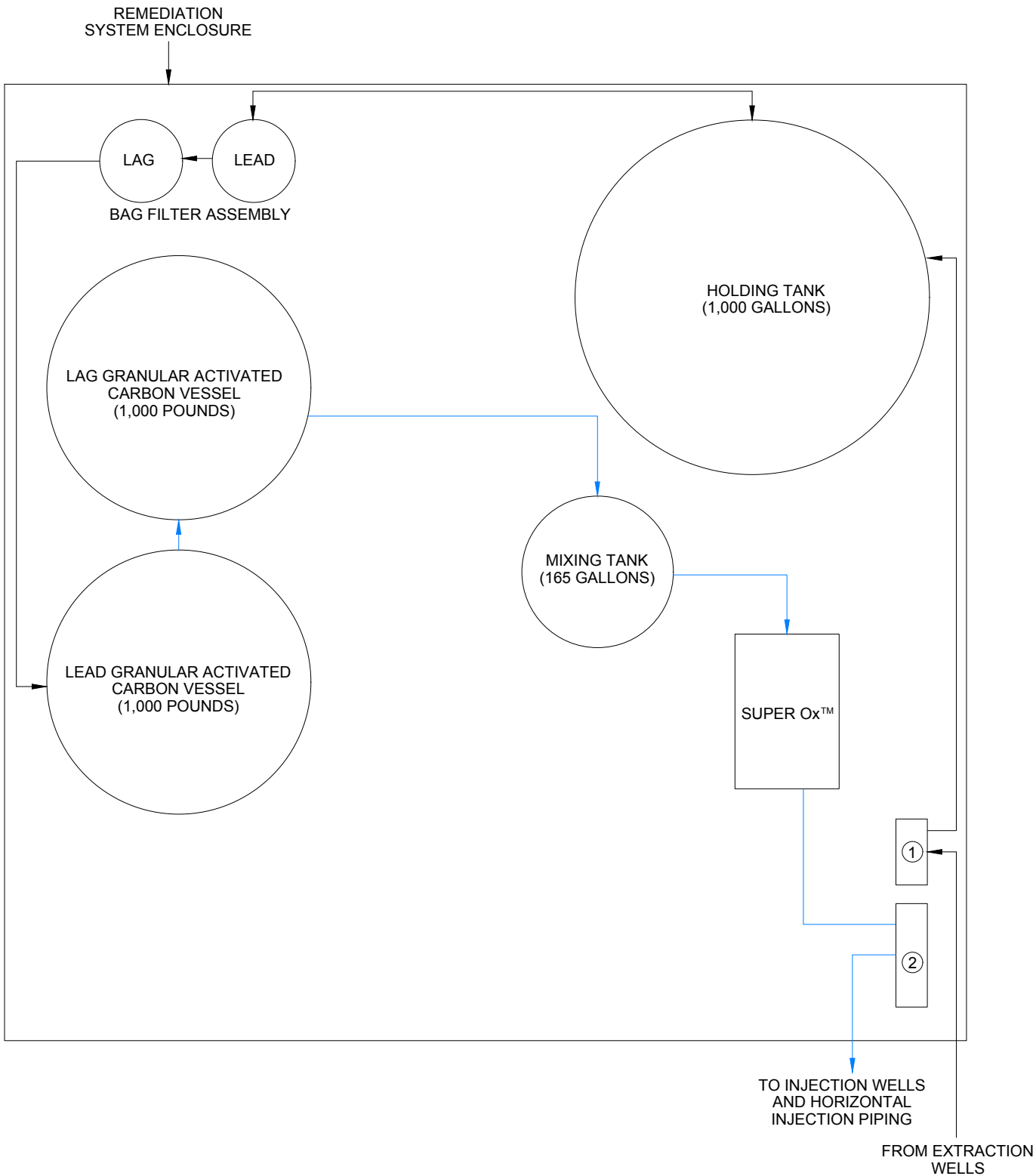
NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

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

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.

401896004-FIG3.dwg, 03/14/2017, AOB, J.P.

		<p align="center">SITE PLAN</p> <p align="center">2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA</p>		FIGURE
				3
PROJECT NO.	DATE			
401896004	3/17			



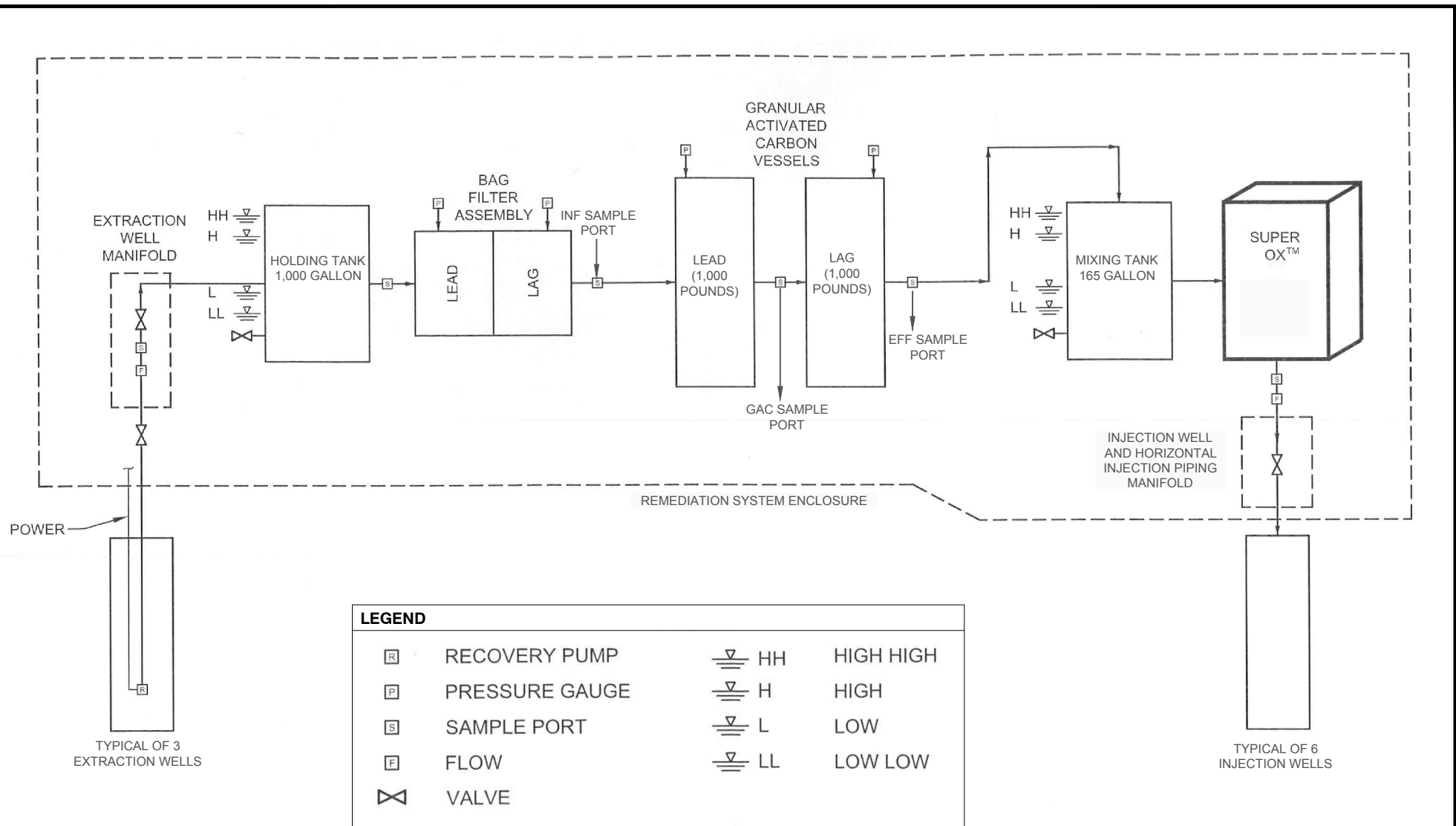
NOT TO SCALE

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

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

401896004-FIG4.dwg, 03/14/2017, AOB, JP

		REMEDIATION SYSTEM PLAN	FIGURE 4
401896004	3/17		

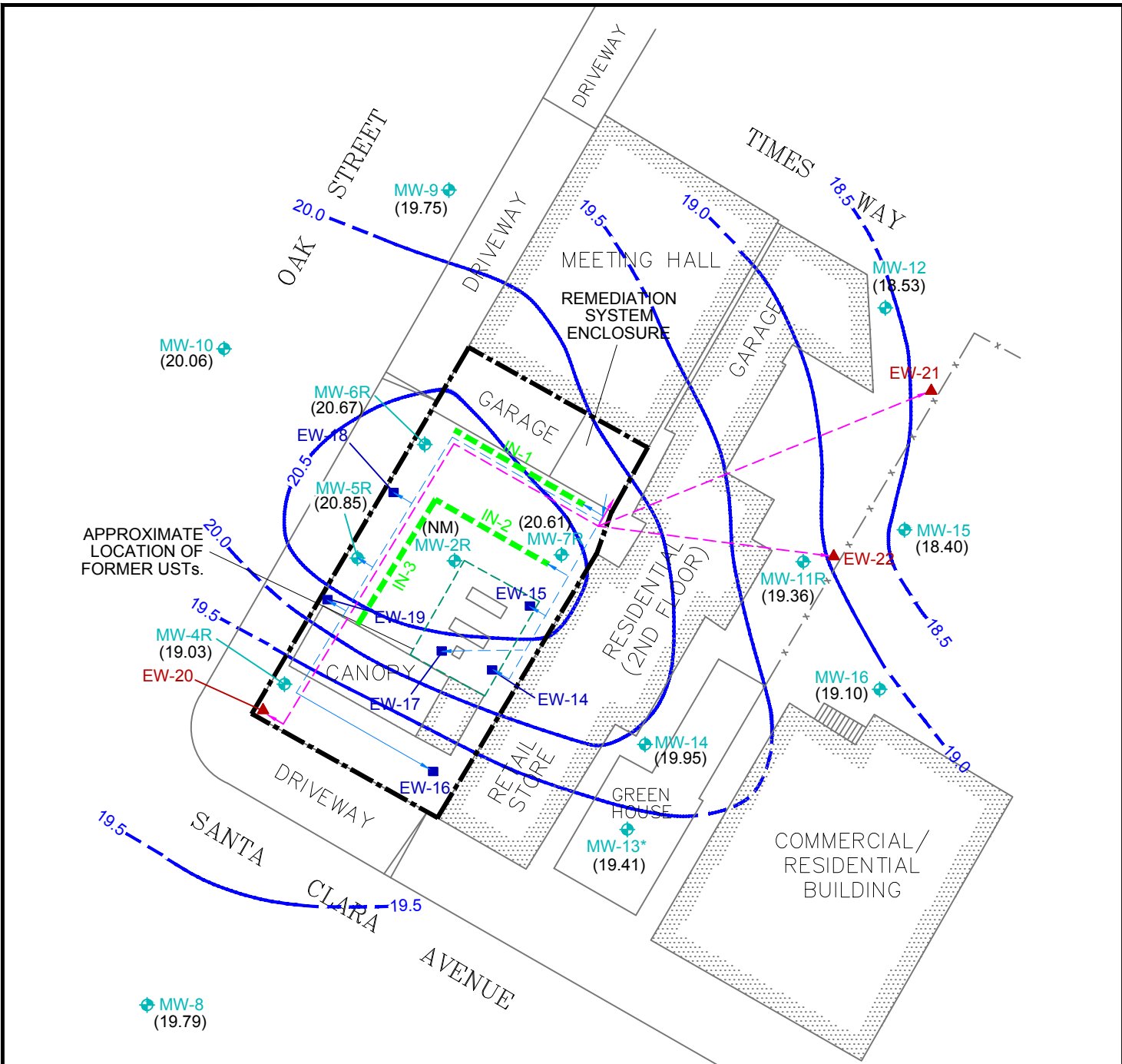


REFERENCE: KENNEDY/JENKS CONSULTANTS, FIGURE 12, JANUARY 2010.

<i>Ninyo & Moore</i>		REMEDATION SYSTEM SCHEMATIC	FIGURE 5
PROJECT NO.	DATE	2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA	
401896004	3/17		

NOT TO SCALE

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.



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
	EXCLUDED FROM GROUNDWATER ELEVATION CONTOURS



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.

Ninyo & Moore

**GROUNDWATER ELEVATION CONTOUR
12/1/16 - 12/2/16**

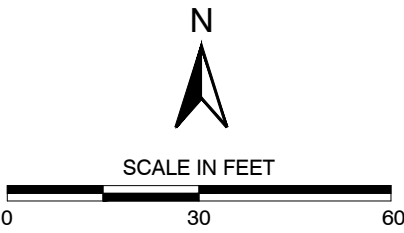
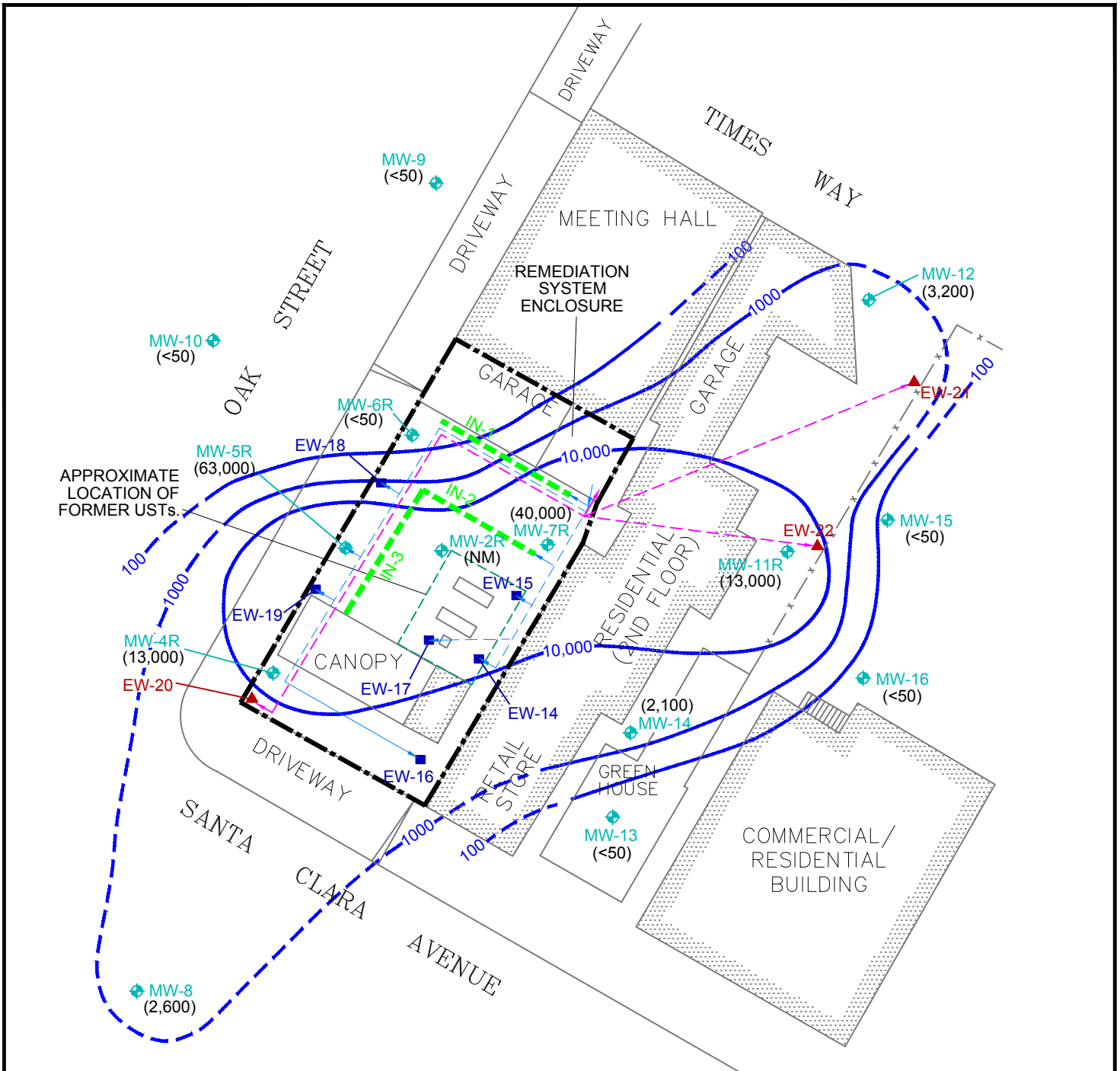
FIGURE

PROJECT NO.	DATE
401896004	3/17

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

6

401896004-FIG.dwg, 03/16/2017, AOB, J.P.



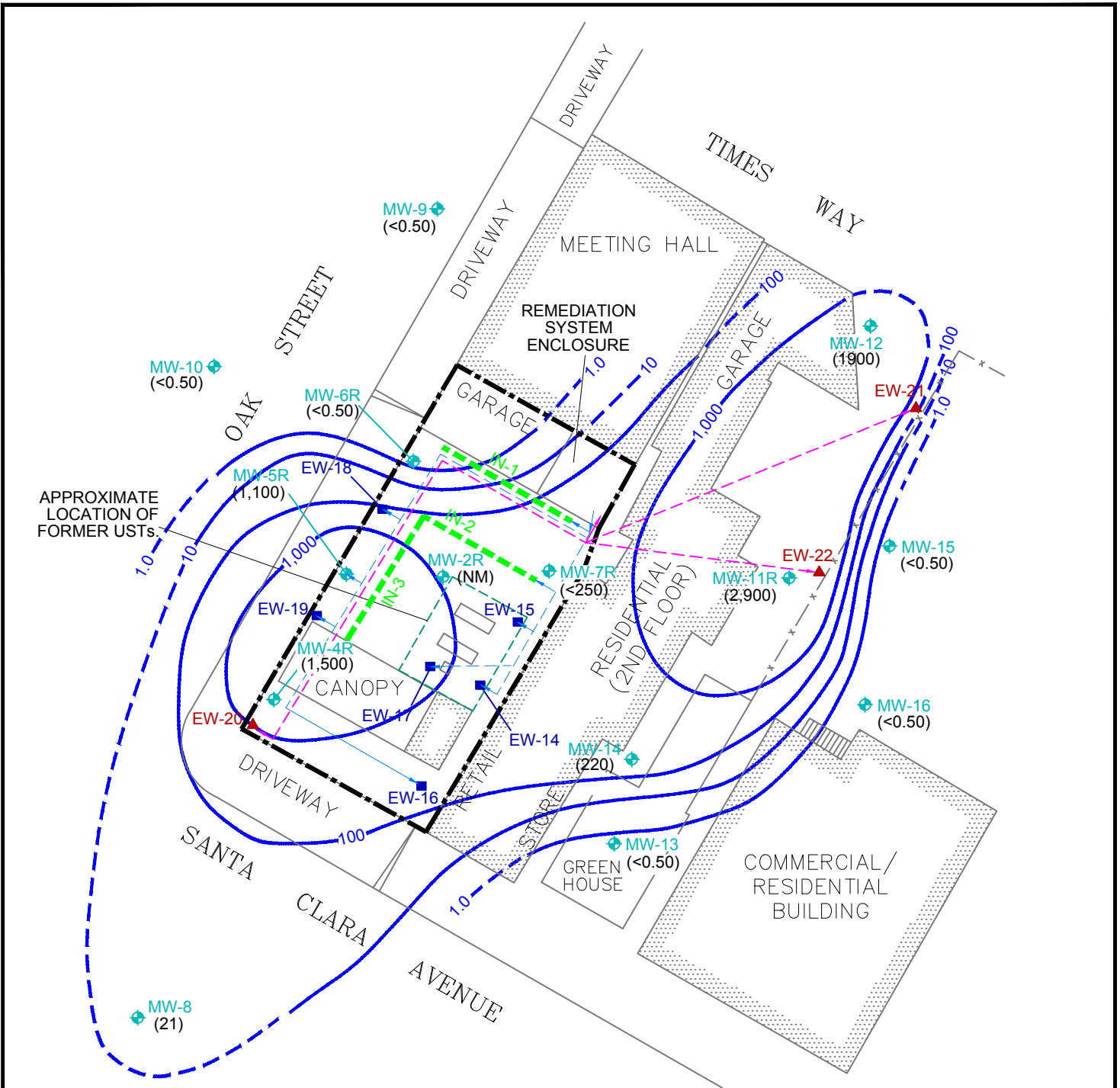
LEGEND	
	APPROXIMATE SITE BOUNDARY
	FENCE
	EXTRACTION WATER SUPPLY LINE AND POWER CONDUIT
	INJECTION WATER SUPPLY LINE
	SLOTTED HORIZONTAL INJECTION PIPING
	CONTOUR
	GROUNDWATER MONITORING WELL
	GROUNDWATER EXTRACTION WELL
	GROUNDWATER INJECTION WELL

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.

		TOTAL PETROLEUM HYDROCARBONS AS GASOLINE CONCENTRATIONS IN GROUNDWATER 12/1/16 - 12/2/16		FIGURE 7
401896004		3/17		

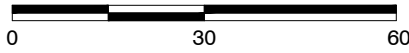
401896004-FIG7.dwg, 03/16/2017, AOB, J.P.



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.



**BENZENE CONCENTRATIONS IN GROUNDWATER
12/1/16 - 12/2/16**

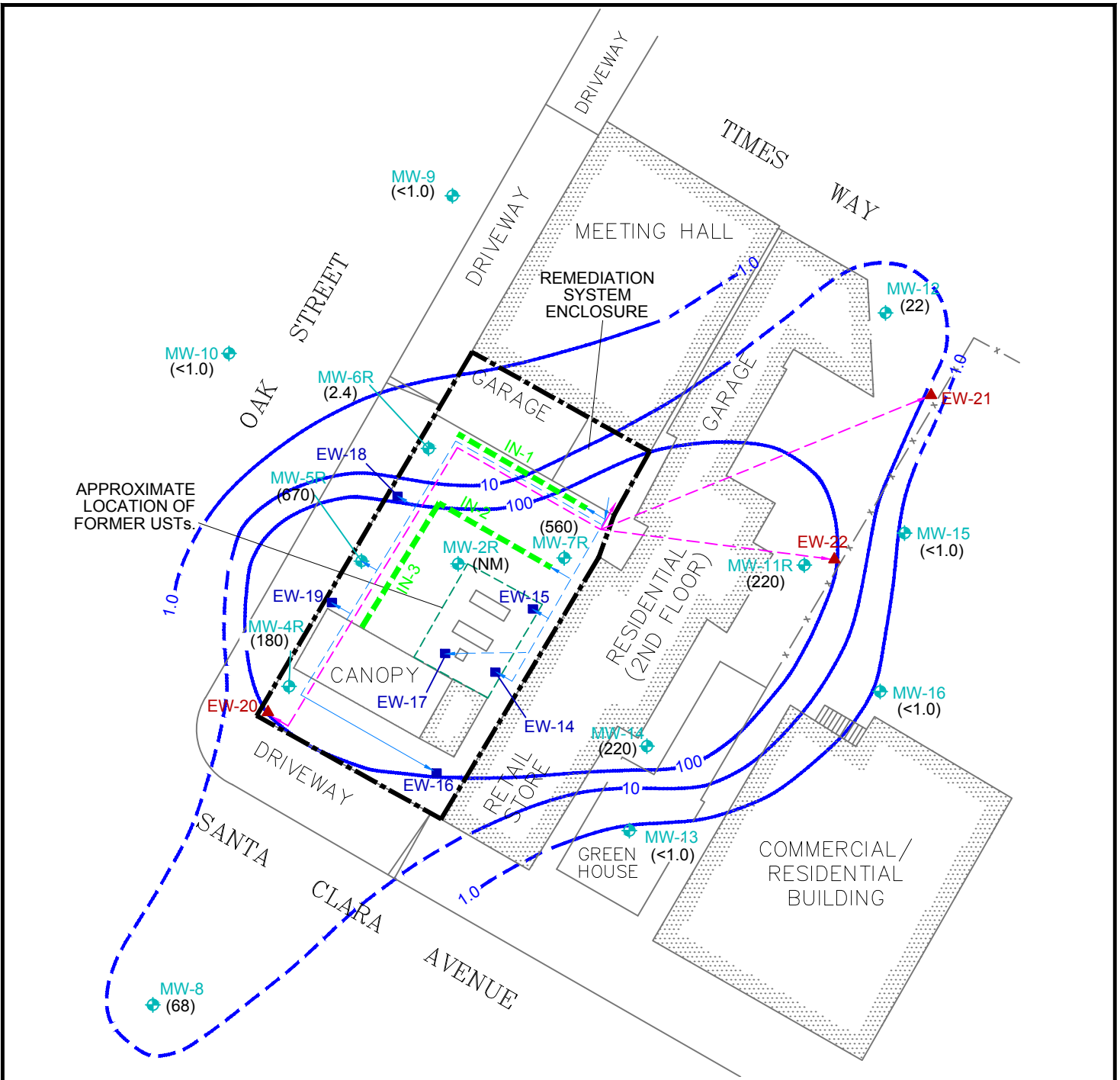
FIGURE

PROJECT NO.	DATE
401896004	3/17

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

8

401896004-FIG.dwg, 03/16/2017, AOB, J.P.



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.

Ninyo & Moore

NAPHTHALENE CONCENTRATIONS IN GROUNDWATER 12/1/16 - 12/2/16

FIGURE

9

PROJECT NO.

DATE

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

401896004

3/17

401896004-FIG9.dwg, 03/16/2017, AOB, J.P.

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	NA	NA
3/13/2006	72,000	17,000	16,000	3,000	10,400	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
6/11/2006	65,000	21,000	16,000	2,900	9,900	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
9/5/2006	62,000	17,000	12,000	2,300	8,600	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
1/4/2007	46,000	6,500	4,200	980	4,890	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
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	ND	ND
9/23/2007	1,200	2.8	7.3	56	142	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/5/2008	730	2.0	4.0	16	116	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/26/2009	170	0.7	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/27/2010	230	1.3	1.0	5.8	18	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	ND	ND	ND
4/21/2011	360	1.2	1.6	ND	9.4	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-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	
3/14/2006	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	
9/6/2006	ND	1.4	0.7	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	
7/7/2007	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	
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-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	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	1.2	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-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	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)														
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			
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	ND	600	2,200
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: 10 / 26 / 16

Field Tech: Peter Sims

Time: 13:00

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	52740	--	--	
EX-22	400440	--	--	
EX-21	582930	--	--	
Injection				
IN-18 + 19	39000	46	0	
IN-16	95240	30	1.8	
Trenches 2+3	330000	20	3.2	
Trench 1 + IN 17	334990	22	3.2	
IN 14 +15	297170	22	3.3	

Treatment System

Totalizer (digital): 1114230 gal
 DO-IT System Pressure: — psi (analog)
 O2 Flow: — scfh

GAC Lead Pressure: 40 psi
 GAC Polish Pressure: 37 psi
 Bag Filter 1 Pressure: 28 psi
 Bag Filter 2 Pressure: 0 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
 _____ 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: 12 / 1 / 14

Field Tech: ALT

Time: 8 : 04

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20		--	--	
EX-22		--	--	
EX-21		--	--	
Injection				
IN-18 + 19	40280	34	3.2	
IN-16	97860	23	7.6	
Trenches 2+3	349410	15	10.0	
Trench 1 + IN 17	355500	13	8.8	
IN 14 + 15	291270	19	8.4	

Treatment System

Totalizer (digital): 11 75160 gal
 DO-IT System Pressure: _____ psi (analog)
 O2 Flow: _____ scfh

GAC Lead Pressure: 0 22 psi
 GAC Polish Pressure: 0 psi
 Bag Filter 1 Pressure: 64 psi
 Bag Filter 2 Pressure: 22 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: 12/19/16

Field Tech: Peter Sims

Time: 16:37

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	564680	--	--	
EX-22	434300	--	--	
EX-21	619860	--	--	
Injection				
IN-18 + 19	40850			
IN-16	99060			
Trenches 2+3	357490			
Trench 1 + IN 17	363760			
IN 14 + 15	297380			

Treatment System

Totalizer (digital): 1201470 gal

GAC Lead Pressure: _____ psi
 GAC Polish Pressure: _____ psi
 Bag Filter 1 Pressure : _____ psi
 Bag Filter 2 Pressure : _____ 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: 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: 10/14/16

Field Tech: Peter Sims

Time: 9:01

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	513330	--	--	
EX-22	392460	--	--	
EX-21	569280	--	--	
Injection				
IN-18 + 19	38650	50	0	
IN-16	94396	30	3.6	
Trenches 2+3	324080	24	5.8/5.2	
Trench 1 + IN 17	328750	26/22	5.2/6.4	increased flow rate/O ₂
IN 14 + 15	272740	24	5.6	

Treatment System

Totalizer (digital): 1095700 gal
 DO-IT System Pressure: _____ psi (analog)
 O2 Flow: _____ scfh

GAC Lead Pressure: _____ psi
 GAC Polish Pressure: _____ psi
 Bag Filter 1 Pressure: _____ psi
 Bag Filter 2 Pressure: _____ 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

*0 CBN left at site
 5 gal petrosolu left at site*

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: 720-76130-1
Client Project/Site: Chun

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

Attn: Mr. Peter D. Sims



Authorized for release by:
12/8/2016 2:25:53 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.

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Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Qualifiers

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.
▫	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: 720-76130-1

Job ID: 720-76130-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-76130-1

Comments

No additional comments.

Receipt

The samples were received on 12/1/2016 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

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

Metals

Method 200.7: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: MW-15 (720-76130-7). The sample was preserved to the appropriate pH in the laboratory. Added 1 mL HNO₃ 12/1/16 @ 1817, ref# 214086.

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

General Chemistry

Method 300.0: The continuing calibration verification (CCV) associated with batch 720-214054 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-14 (720-76130-3), MW-13 (720-76130-4), MW-10 (720-76130-5) and MW-15 (720-76130-7).

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: 720-76130-1

Client Sample ID: INF

Lab Sample ID: 720-76130-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.0		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	1.6		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	1.8		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	54		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: EFF

Lab Sample ID: 720-76130-2

No Detections.

Client Sample ID: MW-14

Lab Sample ID: 720-76130-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	220		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	14		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
sec-Butylbenzene	7.0		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	93		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	33		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Naphthalene	220		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	32		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Toluene	54		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	200		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	23		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	290		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2100		250		ug/L	5		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	3.3		1.0		mg/L	1		300.0	Total/NA
Iron	7.9		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	6.0		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	1.9	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 720-76130-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.8		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	1.1		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	240		100		mg/L	100		300.0	Total/NA
Iron	6.0		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	6.0		0.10		mg/L	1		SM 3500	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-10

Lab Sample ID: 720-76130-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as NO3	190		100		mg/L	100		300.0	Total/NA
Iron	15		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	15		0.10		mg/L	1		SM 3500	Total/NA

Client Sample ID: MW-16

Lab Sample ID: 720-76130-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	1.1		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	130		10		mg/L	10		300.0	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 720-76130-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.7		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	0.94		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	38		10		mg/L	10		300.0	Total/NA
Iron	24		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	24		0.10		mg/L	1		SM 3500	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 720-76130-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as NO3	180		10		mg/L	10		300.0	Total/NA
Iron	25		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	25		0.10		mg/L	1		SM 3500	Total/NA

Client Sample ID: GAC

Lab Sample ID: 720-76130-9

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: 720-76130-1

Client Sample ID: INF

Date Collected: 12/01/16 08:15

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-1

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			12/02/16 00:00	1
Acetone	ND		50		ug/L			12/02/16 00:00	1
Benzene	ND		0.50		ug/L			12/02/16 00:00	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 00:00	1
Bromobenzene	ND		1.0		ug/L			12/02/16 00:00	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 00:00	1
Bromoform	ND		1.0		ug/L			12/02/16 00:00	1
Bromomethane	ND		1.0		ug/L			12/02/16 00:00	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 00:00	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 00:00	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 00:00	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 00:00	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 00:00	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 00:00	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 00:00	1
Chloroethane	ND		1.0		ug/L			12/02/16 00:00	1
Chloroform	ND		1.0		ug/L			12/02/16 00:00	1
Chloromethane	ND		1.0		ug/L			12/02/16 00:00	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 00:00	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 00:00	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 00:00	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 00:00	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 00:00	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 00:00	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 00:00	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 00:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 00:00	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 00:00	1
Dibromomethane	ND		0.50		ug/L			12/02/16 00:00	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 00:00	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 00:00	1
1,2-Dichloroethane	ND		0.50		ug/L			12/02/16 00:00	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 00:00	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 00:00	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 00:00	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 00:00	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 00:00	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 00:00	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 00:00	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 00:00	1
2-Hexanone	ND		50		ug/L			12/02/16 00:00	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 00:00	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 00:00	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 00:00	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 00:00	1
Naphthalene	1.0		1.0		ug/L			12/02/16 00:00	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 00:00	1
Styrene	ND		0.50		ug/L			12/02/16 00:00	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 00:00	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: INF

Lab Sample ID: 720-76130-1

Date Collected: 12/01/16 08:15

Matrix: Water

Date Received: 12/01/16 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			12/02/16 00:00	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 00:00	1
Toluene	ND		0.50		ug/L			12/02/16 00:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 00:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 00:00	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 00:00	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 00:00	1
Trichloroethene	ND		0.50		ug/L			12/02/16 00:00	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 00:00	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 00:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 00:00	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 00:00	1
1,3,5-Trimethylbenzene	1.6		0.50		ug/L			12/02/16 00:00	1
Vinyl acetate	ND		10		ug/L			12/02/16 00:00	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 00:00	1
Xylenes, Total	1.8		1.0		ug/L			12/02/16 00:00	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 00:00	1
Gasoline Range Organics (GRO)	54		50		ug/L			12/02/16 00:00	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		67 - 130		12/02/16 00:00	1
1,2-Dichloroethane-d4 (Surr)	87		72 - 130		12/02/16 00:00	1
Toluene-d8 (Surr)	93		70 - 130		12/02/16 00:00	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: EFF
Date Collected: 12/01/16 08:17
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-2
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			12/02/16 01:27	1
Acetone	ND		50		ug/L			12/02/16 01:27	1
Benzene	ND		0.50		ug/L			12/02/16 01:27	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 01:27	1
Bromobenzene	ND		1.0		ug/L			12/02/16 01:27	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 01:27	1
Bromoform	ND		1.0		ug/L			12/02/16 01:27	1
Bromomethane	ND		1.0		ug/L			12/02/16 01:27	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 01:27	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 01:27	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 01:27	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 01:27	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 01:27	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 01:27	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 01:27	1
Chloroethane	ND		1.0		ug/L			12/02/16 01:27	1
Chloroform	ND		1.0		ug/L			12/02/16 01:27	1
Chloromethane	ND		1.0		ug/L			12/02/16 01:27	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 01:27	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 01:27	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 01:27	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 01:27	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 01:27	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 01:27	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 01:27	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 01:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 01:27	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 01:27	1
Dibromomethane	ND		0.50		ug/L			12/02/16 01:27	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 01:27	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 01:27	1
1,2-Dichloroethane	ND		0.50		ug/L			12/02/16 01:27	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 01:27	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 01:27	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 01:27	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 01:27	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 01:27	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 01:27	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 01:27	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 01:27	1
2-Hexanone	ND		50		ug/L			12/02/16 01:27	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 01:27	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 01:27	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 01:27	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 01:27	1
Naphthalene	ND		1.0		ug/L			12/02/16 01:27	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 01:27	1
Styrene	ND		0.50		ug/L			12/02/16 01:27	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 01:27	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: EFF
Date Collected: 12/01/16 08:17
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-2
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			12/02/16 01:27	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 01:27	1
Toluene	ND		0.50		ug/L			12/02/16 01:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 01:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 01:27	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 01:27	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 01:27	1
Trichloroethene	ND		0.50		ug/L			12/02/16 01:27	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 01:27	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 01:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 01:27	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 01:27	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 01:27	1
Vinyl acetate	ND		10		ug/L			12/02/16 01:27	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 01:27	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 01:27	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 01:27	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 01:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		67 - 130					12/02/16 01:27	1
1,2-Dichloroethane-d4 (Surr)	87		72 - 130					12/02/16 01:27	1
Toluene-d8 (Surr)	94		70 - 130					12/02/16 01:27	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-14
Date Collected: 12/01/16 11:00
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-3
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		2.5		ug/L			12/02/16 15:24	5
Acetone	ND		250		ug/L			12/02/16 15:24	5
Benzene	220		2.5		ug/L			12/02/16 15:24	5
Dichlorobromomethane	ND		2.5		ug/L			12/02/16 15:24	5
Bromobenzene	ND		5.0		ug/L			12/02/16 15:24	5
Chlorobromomethane	ND		5.0		ug/L			12/02/16 15:24	5
Bromoform	ND		5.0		ug/L			12/02/16 15:24	5
Bromomethane	ND		5.0		ug/L			12/02/16 15:24	5
2-Butanone (MEK)	ND		250		ug/L			12/02/16 15:24	5
n-Butylbenzene	14		5.0		ug/L			12/02/16 15:24	5
sec-Butylbenzene	7.0		5.0		ug/L			12/02/16 15:24	5
tert-Butylbenzene	ND		5.0		ug/L			12/02/16 15:24	5
Carbon disulfide	ND		25		ug/L			12/02/16 15:24	5
Carbon tetrachloride	ND		2.5		ug/L			12/02/16 15:24	5
Chlorobenzene	ND		2.5		ug/L			12/02/16 15:24	5
Chloroethane	ND		5.0		ug/L			12/02/16 15:24	5
Chloroform	ND		5.0		ug/L			12/02/16 15:24	5
Chloromethane	ND		5.0		ug/L			12/02/16 15:24	5
2-Chlorotoluene	ND		2.5		ug/L			12/02/16 15:24	5
4-Chlorotoluene	ND		2.5		ug/L			12/02/16 15:24	5
Chlorodibromomethane	ND		2.5		ug/L			12/02/16 15:24	5
1,2-Dichlorobenzene	ND		2.5		ug/L			12/02/16 15:24	5
1,3-Dichlorobenzene	ND		2.5		ug/L			12/02/16 15:24	5
1,4-Dichlorobenzene	ND		2.5		ug/L			12/02/16 15:24	5
1,3-Dichloropropane	ND		5.0		ug/L			12/02/16 15:24	5
1,1-Dichloropropene	ND		2.5		ug/L			12/02/16 15:24	5
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			12/02/16 15:24	5
Ethylene Dibromide	ND		2.5		ug/L			12/02/16 15:24	5
Dibromomethane	ND		2.5		ug/L			12/02/16 15:24	5
Dichlorodifluoromethane	ND		2.5		ug/L			12/02/16 15:24	5
1,1-Dichloroethane	ND		2.5		ug/L			12/02/16 15:24	5
1,2-Dichloroethane	ND		2.5		ug/L			12/02/16 15:24	5
1,1-Dichloroethene	ND		2.5		ug/L			12/02/16 15:24	5
cis-1,2-Dichloroethene	ND		2.5		ug/L			12/02/16 15:24	5
trans-1,2-Dichloroethene	ND		2.5		ug/L			12/02/16 15:24	5
1,2-Dichloropropane	ND		2.5		ug/L			12/02/16 15:24	5
cis-1,3-Dichloropropene	ND		2.5		ug/L			12/02/16 15:24	5
trans-1,3-Dichloropropene	ND		2.5		ug/L			12/02/16 15:24	5
Ethylbenzene	93		2.5		ug/L			12/02/16 15:24	5
Hexachlorobutadiene	ND		5.0		ug/L			12/02/16 15:24	5
2-Hexanone	ND		250		ug/L			12/02/16 15:24	5
Isopropylbenzene	33		2.5		ug/L			12/02/16 15:24	5
4-Isopropyltoluene	ND		5.0		ug/L			12/02/16 15:24	5
Methylene Chloride	ND		25		ug/L			12/02/16 15:24	5
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			12/02/16 15:24	5
Naphthalene	220		5.0		ug/L			12/02/16 15:24	5
N-Propylbenzene	32		5.0		ug/L			12/02/16 15:24	5
Styrene	ND		2.5		ug/L			12/02/16 15:24	5
1,1,1,2-Tetrachloroethane	ND		2.5		ug/L			12/02/16 15:24	5

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-14
Date Collected: 12/01/16 11:00
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-3
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		2.5		ug/L			12/02/16 15:24	5
Tetrachloroethene	ND		2.5		ug/L			12/02/16 15:24	5
Toluene	54		2.5		ug/L			12/02/16 15:24	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			12/02/16 15:24	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			12/02/16 15:24	5
1,1,1-Trichloroethane	ND		2.5		ug/L			12/02/16 15:24	5
1,1,2-Trichloroethane	ND		2.5		ug/L			12/02/16 15:24	5
Trichloroethene	ND		2.5		ug/L			12/02/16 15:24	5
Trichlorofluoromethane	ND		5.0		ug/L			12/02/16 15:24	5
1,2,3-Trichloropropane	ND		2.5		ug/L			12/02/16 15:24	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5		ug/L			12/02/16 15:24	5
1,2,4-Trimethylbenzene	200		2.5		ug/L			12/02/16 15:24	5
1,3,5-Trimethylbenzene	23		2.5		ug/L			12/02/16 15:24	5
Vinyl acetate	ND		50		ug/L			12/02/16 15:24	5
Vinyl chloride	ND		2.5		ug/L			12/02/16 15:24	5
Xylenes, Total	290		5.0		ug/L			12/02/16 15:24	5
2,2-Dichloropropane	ND		2.5		ug/L			12/02/16 15:24	5
Gasoline Range Organics (GRO)	2100		250		ug/L			12/02/16 15:24	5
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130		12/02/16 15:24	5
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		12/02/16 15:24	5
Toluene-d8 (Surr)	94		70 - 130		12/02/16 15:24	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			12/01/16 20:43	1
Nitrate as NO3	3.3		1.0		mg/L			12/01/16 20:43	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7.9		1.0		mg/L		12/06/16 09:46	12/06/16 19:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	6.0		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	1.9	HF	0.10		mg/L			12/02/16 13:58	1
Ammonia	ND		0.20		mg/L		12/05/16 16:45	12/05/16 18:57	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-13

Date Collected: 12/01/16 11:25

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-4

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	1.8		0.50		ug/L			12/02/16 02:25	1
Acetone	ND		50		ug/L			12/02/16 02:25	1
Benzene	ND		0.50		ug/L			12/02/16 02:25	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 02:25	1
Bromobenzene	ND		1.0		ug/L			12/02/16 02:25	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 02:25	1
Bromoform	ND		1.0		ug/L			12/02/16 02:25	1
Bromomethane	ND		1.0		ug/L			12/02/16 02:25	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 02:25	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 02:25	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 02:25	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 02:25	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 02:25	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 02:25	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 02:25	1
Chloroethane	ND		1.0		ug/L			12/02/16 02:25	1
Chloroform	ND		1.0		ug/L			12/02/16 02:25	1
Chloromethane	ND		1.0		ug/L			12/02/16 02:25	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 02:25	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 02:25	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 02:25	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 02:25	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 02:25	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 02:25	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 02:25	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 02:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 02:25	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 02:25	1
Dibromomethane	ND		0.50		ug/L			12/02/16 02:25	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 02:25	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 02:25	1
1,2-Dichloroethane	1.1		0.50		ug/L			12/02/16 02:25	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 02:25	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 02:25	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 02:25	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 02:25	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 02:25	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 02:25	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 02:25	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 02:25	1
2-Hexanone	ND		50		ug/L			12/02/16 02:25	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 02:25	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 02:25	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 02:25	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 02:25	1
Naphthalene	ND		1.0		ug/L			12/02/16 02:25	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 02:25	1
Styrene	ND		0.50		ug/L			12/02/16 02:25	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 02:25	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-13

Date Collected: 12/01/16 11:25

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-4

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			12/02/16 02:25	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 02:25	1
Toluene	ND		0.50		ug/L			12/02/16 02:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 02:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 02:25	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 02:25	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 02:25	1
Trichloroethene	ND		0.50		ug/L			12/02/16 02:25	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 02:25	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 02:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 02:25	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 02:25	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 02:25	1
Vinyl acetate	ND		10		ug/L			12/02/16 02:25	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 02:25	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 02:25	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 02:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		67 - 130		12/02/16 02:25	1
1,2-Dichloroethane-d4 (Surr)	89		72 - 130		12/02/16 02:25	1
Toluene-d8 (Surr)	93		70 - 130		12/02/16 02:25	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			12/01/16 21:17	1
Nitrate as NO3	240		100		mg/L			12/02/16 17:47	100

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6.0		1.0		mg/L		12/06/16 09:46	12/06/16 19:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	6.0		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	ND	HF	0.10		mg/L			12/02/16 13:58	1
Ammonia	ND		0.20		mg/L		12/05/16 16:45	12/05/16 18:59	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-10
Date Collected: 12/01/16 12:45
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-5
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			12/02/16 02:54	1
Acetone	ND		50		ug/L			12/02/16 02:54	1
Benzene	ND		0.50		ug/L			12/02/16 02:54	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 02:54	1
Bromobenzene	ND		1.0		ug/L			12/02/16 02:54	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 02:54	1
Bromoform	ND		1.0		ug/L			12/02/16 02:54	1
Bromomethane	ND		1.0		ug/L			12/02/16 02:54	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 02:54	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 02:54	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 02:54	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 02:54	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 02:54	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 02:54	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 02:54	1
Chloroethane	ND		1.0		ug/L			12/02/16 02:54	1
Chloroform	ND		1.0		ug/L			12/02/16 02:54	1
Chloromethane	ND		1.0		ug/L			12/02/16 02:54	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 02:54	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 02:54	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 02:54	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 02:54	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 02:54	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 02:54	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 02:54	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 02:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 02:54	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 02:54	1
Dibromomethane	ND		0.50		ug/L			12/02/16 02:54	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 02:54	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 02:54	1
1,2-Dichloroethane	ND		0.50		ug/L			12/02/16 02:54	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 02:54	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 02:54	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 02:54	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 02:54	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 02:54	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 02:54	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 02:54	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 02:54	1
2-Hexanone	ND		50		ug/L			12/02/16 02:54	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 02:54	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 02:54	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 02:54	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 02:54	1
Naphthalene	ND		1.0		ug/L			12/02/16 02:54	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 02:54	1
Styrene	ND		0.50		ug/L			12/02/16 02:54	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 02:54	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-10

Lab Sample ID: 720-76130-5

Date Collected: 12/01/16 12:45

Matrix: Water

Date Received: 12/01/16 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			12/02/16 02:54	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 02:54	1
Toluene	ND		0.50		ug/L			12/02/16 02:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 02:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 02:54	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 02:54	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 02:54	1
Trichloroethene	ND		0.50		ug/L			12/02/16 02:54	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 02:54	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 02:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 02:54	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 02:54	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 02:54	1
Vinyl acetate	ND		10		ug/L			12/02/16 02:54	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 02:54	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 02:54	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 02:54	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		67 - 130		12/02/16 02:54	1
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		12/02/16 02:54	1
Toluene-d8 (Surr)	93		70 - 130		12/02/16 02:54	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			12/01/16 21:51	1
Nitrate as NO3	190		100		mg/L			12/02/16 18:04	100

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		12/06/16 09:46	12/06/16 19:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	15		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	ND	HF	0.10		mg/L			12/02/16 13:58	1
Ammonia	ND		0.20		mg/L		12/05/16 16:45	12/05/16 19:02	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-16

Date Collected: 12/01/16 14:10

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-6

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	1.2		0.50		ug/L			12/02/16 03:23	1
Acetone	ND		50		ug/L			12/02/16 03:23	1
Benzene	ND		0.50		ug/L			12/02/16 03:23	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 03:23	1
Bromobenzene	ND		1.0		ug/L			12/02/16 03:23	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 03:23	1
Bromoform	ND		1.0		ug/L			12/02/16 03:23	1
Bromomethane	ND		1.0		ug/L			12/02/16 03:23	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 03:23	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 03:23	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 03:23	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 03:23	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 03:23	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 03:23	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 03:23	1
Chloroethane	ND		1.0		ug/L			12/02/16 03:23	1
Chloroform	ND		1.0		ug/L			12/02/16 03:23	1
Chloromethane	ND		1.0		ug/L			12/02/16 03:23	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 03:23	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 03:23	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 03:23	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 03:23	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 03:23	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 03:23	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 03:23	1
1,1-Dichloropropane	ND		0.50		ug/L			12/02/16 03:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 03:23	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 03:23	1
Dibromomethane	ND		0.50		ug/L			12/02/16 03:23	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 03:23	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 03:23	1
1,2-Dichloroethane	1.1		0.50		ug/L			12/02/16 03:23	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 03:23	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 03:23	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 03:23	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 03:23	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 03:23	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 03:23	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 03:23	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 03:23	1
2-Hexanone	ND		50		ug/L			12/02/16 03:23	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 03:23	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 03:23	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 03:23	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 03:23	1
Naphthalene	ND		1.0		ug/L			12/02/16 03:23	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 03:23	1
Styrene	ND		0.50		ug/L			12/02/16 03:23	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 03:23	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-16

Lab Sample ID: 720-76130-6

Date Collected: 12/01/16 14:10

Matrix: Water

Date Received: 12/01/16 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			12/02/16 03:23	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 03:23	1
Toluene	ND		0.50		ug/L			12/02/16 03:23	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 03:23	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 03:23	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 03:23	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 03:23	1
Trichloroethene	ND		0.50		ug/L			12/02/16 03:23	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 03:23	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 03:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 03:23	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 03:23	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 03:23	1
Vinyl acetate	ND		10		ug/L			12/02/16 03:23	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 03:23	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 03:23	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 03:23	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		67 - 130		12/02/16 03:23	1
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		12/02/16 03:23	1
Toluene-d8 (Surr)	93		70 - 130		12/02/16 03:23	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		100		mg/L			12/02/16 18:21	100
Nitrate as NO3	130		10		mg/L			12/01/16 22:44	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		12/06/16 09:46	12/06/16 19:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	ND	HF	0.10		mg/L			12/02/16 13:58	1
Ammonia	ND		0.20		mg/L		12/05/16 16:45	12/05/16 19:05	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-15
Date Collected: 12/01/16 14:52
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-7
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	4.7		0.50		ug/L			12/02/16 03:52	1
Acetone	ND		50		ug/L			12/02/16 03:52	1
Benzene	ND		0.50		ug/L			12/02/16 03:52	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 03:52	1
Bromobenzene	ND		1.0		ug/L			12/02/16 03:52	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 03:52	1
Bromoform	ND		1.0		ug/L			12/02/16 03:52	1
Bromomethane	ND		1.0		ug/L			12/02/16 03:52	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 03:52	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 03:52	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 03:52	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 03:52	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 03:52	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 03:52	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 03:52	1
Chloroethane	ND		1.0		ug/L			12/02/16 03:52	1
Chloroform	ND		1.0		ug/L			12/02/16 03:52	1
Chloromethane	ND		1.0		ug/L			12/02/16 03:52	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 03:52	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 03:52	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 03:52	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 03:52	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 03:52	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 03:52	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 03:52	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 03:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 03:52	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 03:52	1
Dibromomethane	ND		0.50		ug/L			12/02/16 03:52	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 03:52	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 03:52	1
1,2-Dichloroethane	0.94		0.50		ug/L			12/02/16 03:52	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 03:52	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 03:52	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 03:52	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 03:52	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 03:52	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 03:52	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 03:52	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 03:52	1
2-Hexanone	ND		50		ug/L			12/02/16 03:52	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 03:52	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 03:52	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 03:52	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 03:52	1
Naphthalene	ND		1.0		ug/L			12/02/16 03:52	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 03:52	1
Styrene	ND		0.50		ug/L			12/02/16 03:52	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 03:52	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-15

Lab Sample ID: 720-76130-7

Date Collected: 12/01/16 14:52

Matrix: Water

Date Received: 12/01/16 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			12/02/16 03:52	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 03:52	1
Toluene	ND		0.50		ug/L			12/02/16 03:52	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 03:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 03:52	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 03:52	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 03:52	1
Trichloroethene	ND		0.50		ug/L			12/02/16 03:52	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 03:52	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 03:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 03:52	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 03:52	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 03:52	1
Vinyl acetate	ND		10		ug/L			12/02/16 03:52	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 03:52	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 03:52	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 03:52	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		67 - 130		12/02/16 03:52	1
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		12/02/16 03:52	1
Toluene-d8 (Surr)	91		70 - 130		12/02/16 03:52	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			12/01/16 23:01	1
Nitrate as NO3	38		10		mg/L			12/01/16 23:18	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	24		1.0		mg/L		12/06/16 09:46	12/06/16 19:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	24		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	ND	HF	0.10		mg/L			12/02/16 13:58	1
Ammonia	ND		0.20		mg/L		12/05/16 16:45	12/05/16 19:08	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-9
Date Collected: 12/01/16 13:22
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-8
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			12/02/16 04:21	1
Acetone	ND		50		ug/L			12/02/16 04:21	1
Benzene	ND		0.50		ug/L			12/02/16 04:21	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 04:21	1
Bromobenzene	ND		1.0		ug/L			12/02/16 04:21	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 04:21	1
Bromoform	ND		1.0		ug/L			12/02/16 04:21	1
Bromomethane	ND		1.0		ug/L			12/02/16 04:21	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 04:21	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 04:21	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 04:21	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 04:21	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 04:21	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 04:21	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 04:21	1
Chloroethane	ND		1.0		ug/L			12/02/16 04:21	1
Chloroform	ND		1.0		ug/L			12/02/16 04:21	1
Chloromethane	ND		1.0		ug/L			12/02/16 04:21	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 04:21	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 04:21	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 04:21	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 04:21	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 04:21	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 04:21	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 04:21	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 04:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 04:21	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 04:21	1
Dibromomethane	ND		0.50		ug/L			12/02/16 04:21	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 04:21	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 04:21	1
1,2-Dichloroethane	ND		0.50		ug/L			12/02/16 04:21	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 04:21	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 04:21	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 04:21	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 04:21	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 04:21	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 04:21	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 04:21	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 04:21	1
2-Hexanone	ND		50		ug/L			12/02/16 04:21	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 04:21	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 04:21	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 04:21	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 04:21	1
Naphthalene	ND		1.0		ug/L			12/02/16 04:21	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 04:21	1
Styrene	ND		0.50		ug/L			12/02/16 04:21	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 04:21	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-9

Lab Sample ID: 720-76130-8

Date Collected: 12/01/16 13:22

Matrix: Water

Date Received: 12/01/16 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			12/02/16 04:21	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 04:21	1
Toluene	ND		0.50		ug/L			12/02/16 04:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 04:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 04:21	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 04:21	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 04:21	1
Trichloroethene	ND		0.50		ug/L			12/02/16 04:21	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 04:21	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 04:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 04:21	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 04:21	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 04:21	1
Vinyl acetate	ND		10		ug/L			12/02/16 04:21	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 04:21	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 04:21	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 04:21	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		67 - 130		12/02/16 04:21	1
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		12/02/16 04:21	1
Toluene-d8 (Surr)	92		70 - 130		12/02/16 04:21	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		100		mg/L			12/02/16 18:38	100
Nitrate as NO3	180		10		mg/L			12/02/16 00:26	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	25		1.0		mg/L		12/06/16 09:46	12/06/16 19:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	25		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	ND	HF	0.10		mg/L			12/02/16 13:58	1
Ammonia	ND		0.20		mg/L		12/05/16 16:45	12/05/16 19:10	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: GAC
Date Collected: 12/01/16 15:21
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-9
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			12/02/16 04:50	1
Acetone	ND		50		ug/L			12/02/16 04:50	1
Benzene	ND		0.50		ug/L			12/02/16 04:50	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 04:50	1
Bromobenzene	ND		1.0		ug/L			12/02/16 04:50	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 04:50	1
Bromoform	ND		1.0		ug/L			12/02/16 04:50	1
Bromomethane	ND		1.0		ug/L			12/02/16 04:50	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 04:50	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 04:50	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 04:50	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 04:50	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 04:50	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 04:50	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 04:50	1
Chloroethane	ND		1.0		ug/L			12/02/16 04:50	1
Chloroform	ND		1.0		ug/L			12/02/16 04:50	1
Chloromethane	ND		1.0		ug/L			12/02/16 04:50	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 04:50	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 04:50	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 04:50	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 04:50	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 04:50	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 04:50	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 04:50	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 04:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 04:50	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 04:50	1
Dibromomethane	ND		0.50		ug/L			12/02/16 04:50	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 04:50	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 04:50	1
1,2-Dichloroethane	ND		0.50		ug/L			12/02/16 04:50	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 04:50	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 04:50	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 04:50	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 04:50	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 04:50	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 04:50	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 04:50	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 04:50	1
2-Hexanone	ND		50		ug/L			12/02/16 04:50	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 04:50	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 04:50	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 04:50	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 04:50	1
Naphthalene	ND		1.0		ug/L			12/02/16 04:50	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 04:50	1
Styrene	ND		0.50		ug/L			12/02/16 04:50	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 04:50	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: GAC

Lab Sample ID: 720-76130-9

Date Collected: 12/01/16 15:21

Matrix: Water

Date Received: 12/01/16 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			12/02/16 04:50	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 04:50	1
Toluene	ND		0.50		ug/L			12/02/16 04:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 04:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 04:50	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 04:50	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 04:50	1
Trichloroethene	ND		0.50		ug/L			12/02/16 04:50	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 04:50	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 04:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 04:50	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 04:50	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 04:50	1
Vinyl acetate	ND		10		ug/L			12/02/16 04:50	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 04:50	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 04:50	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 04:50	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		67 - 130		12/02/16 04:50	1
1,2-Dichloroethane-d4 (Surr)	87		72 - 130		12/02/16 04:50	1
Toluene-d8 (Surr)	92		70 - 130		12/02/16 04:50	1

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: MB 720-214058/5

Matrix: Water

Analysis Batch: 214058

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			12/01/16 19:38	1
Acetone	ND		50		ug/L			12/01/16 19:38	1
Benzene	ND		0.50		ug/L			12/01/16 19:38	1
Dichlorobromomethane	ND		0.50		ug/L			12/01/16 19:38	1
Bromobenzene	ND		1.0		ug/L			12/01/16 19:38	1
Chlorobromomethane	ND		1.0		ug/L			12/01/16 19:38	1
Bromoform	ND		1.0		ug/L			12/01/16 19:38	1
Bromomethane	ND		1.0		ug/L			12/01/16 19:38	1
2-Butanone (MEK)	ND		50		ug/L			12/01/16 19:38	1
n-Butylbenzene	ND		1.0		ug/L			12/01/16 19:38	1
sec-Butylbenzene	ND		1.0		ug/L			12/01/16 19:38	1
tert-Butylbenzene	ND		1.0		ug/L			12/01/16 19:38	1
Carbon disulfide	ND		5.0		ug/L			12/01/16 19:38	1
Carbon tetrachloride	ND		0.50		ug/L			12/01/16 19:38	1
Chlorobenzene	ND		0.50		ug/L			12/01/16 19:38	1
Chloroethane	ND		1.0		ug/L			12/01/16 19:38	1
Chloroform	ND		1.0		ug/L			12/01/16 19:38	1
Chloromethane	ND		1.0		ug/L			12/01/16 19:38	1
2-Chlorotoluene	ND		0.50		ug/L			12/01/16 19:38	1
4-Chlorotoluene	ND		0.50		ug/L			12/01/16 19:38	1
Chlorodibromomethane	ND		0.50		ug/L			12/01/16 19:38	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/01/16 19:38	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/01/16 19:38	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/01/16 19:38	1
1,3-Dichloropropane	ND		1.0		ug/L			12/01/16 19:38	1
1,1-Dichloropropene	ND		0.50		ug/L			12/01/16 19:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/01/16 19:38	1
Ethylene Dibromide	ND		0.50		ug/L			12/01/16 19:38	1
Dibromomethane	ND		0.50		ug/L			12/01/16 19:38	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/01/16 19:38	1
1,1-Dichloroethane	ND		0.50		ug/L			12/01/16 19:38	1
1,2-Dichloroethane	ND		0.50		ug/L			12/01/16 19:38	1
1,1-Dichloroethene	ND		0.50		ug/L			12/01/16 19:38	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/01/16 19:38	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/01/16 19:38	1
1,2-Dichloropropane	ND		0.50		ug/L			12/01/16 19:38	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/01/16 19:38	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/01/16 19:38	1
Ethylbenzene	ND		0.50		ug/L			12/01/16 19:38	1
Hexachlorobutadiene	ND		1.0		ug/L			12/01/16 19:38	1
2-Hexanone	ND		50		ug/L			12/01/16 19:38	1
Isopropylbenzene	ND		0.50		ug/L			12/01/16 19:38	1
4-Isopropyltoluene	ND		1.0		ug/L			12/01/16 19:38	1
Methylene Chloride	ND		5.0		ug/L			12/01/16 19:38	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/01/16 19:38	1
Naphthalene	ND		1.0		ug/L			12/01/16 19:38	1
N-Propylbenzene	ND		1.0		ug/L			12/01/16 19:38	1
Styrene	ND		0.50		ug/L			12/01/16 19:38	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: MB 720-214058/5
Matrix: Water
Analysis Batch: 214058

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			12/01/16 19:38	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/01/16 19:38	1
Tetrachloroethene	ND		0.50		ug/L			12/01/16 19:38	1
Toluene	ND		0.50		ug/L			12/01/16 19:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/01/16 19:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/01/16 19:38	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/01/16 19:38	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/01/16 19:38	1
Trichloroethene	ND		0.50		ug/L			12/01/16 19:38	1
Trichlorofluoromethane	ND		1.0		ug/L			12/01/16 19:38	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/01/16 19:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/01/16 19:38	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/01/16 19:38	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/01/16 19:38	1
Vinyl acetate	ND		10		ug/L			12/01/16 19:38	1
Vinyl chloride	ND		0.50		ug/L			12/01/16 19:38	1
Xylenes, Total	ND		1.0		ug/L			12/01/16 19:38	1
2,2-Dichloropropane	ND		0.50		ug/L			12/01/16 19:38	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/01/16 19:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		67 - 130		12/01/16 19:38	1
1,2-Dichloroethane-d4 (Surr)	84		72 - 130		12/01/16 19:38	1
Toluene-d8 (Surr)	92		70 - 130		12/01/16 19:38	1

Lab Sample ID: LCS 720-214058/6
Matrix: Water
Analysis Batch: 214058

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	21.1		ug/L		84	62 - 130
Acetone	125	118		ug/L		94	26 - 180
Benzene	25.0	23.3		ug/L		93	79 - 130
Dichlorobromomethane	25.0	22.8		ug/L		91	70 - 130
Bromobenzene	25.0	22.7		ug/L		91	70 - 130
Chlorobromomethane	25.0	23.9		ug/L		96	70 - 130
Bromoform	25.0	20.9		ug/L		84	68 - 136
Bromomethane	25.0	26.9		ug/L		108	43 - 151
2-Butanone (MEK)	125	106		ug/L		85	54 - 153
n-Butylbenzene	25.0	24.1		ug/L		96	70 - 142
sec-Butylbenzene	25.0	24.6		ug/L		98	70 - 134
tert-Butylbenzene	25.0	24.9		ug/L		100	70 - 135
Carbon disulfide	25.0	21.6		ug/L		87	68 - 146
Carbon tetrachloride	25.0	23.5		ug/L		94	70 - 146
Chlorobenzene	25.0	25.0		ug/L		100	70 - 130
Chloroethane	25.0	28.7		ug/L		115	62 - 138
Chloroform	25.0	23.3		ug/L		93	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: LCS 720-214058/6

Matrix: Water

Analysis Batch: 214058

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	29.5		ug/L		118	52 - 175
2-Chlorotoluene	25.0	23.2		ug/L		93	70 - 130
4-Chlorotoluene	25.0	23.0		ug/L		92	70 - 130
Chlorodibromomethane	25.0	21.4		ug/L		86	70 - 145
1,2-Dichlorobenzene	25.0	23.6		ug/L		95	70 - 130
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,3-Dichloropropane	25.0	23.1		ug/L		93	70 - 130
1,1-Dichloropropene	25.0	23.8		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	18.9		ug/L		76	70 - 136
Ethylene Dibromide	25.0	22.4		ug/L		90	70 - 130
Dibromomethane	25.0	22.1		ug/L		88	70 - 130
Dichlorodifluoromethane	25.0	31.3		ug/L		125	32 - 158
1,1-Dichloroethane	25.0	23.3		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	22.0		ug/L		88	61 - 132
1,1-Dichloroethene	25.0	22.3		ug/L		89	64 - 128
cis-1,2-Dichloroethene	25.0	23.6		ug/L		94	70 - 130
trans-1,2-Dichloroethene	25.0	23.6		ug/L		94	68 - 130
1,2-Dichloropropane	25.0	25.4		ug/L		102	70 - 130
cis-1,3-Dichloropropene	25.0	23.7		ug/L		95	70 - 130
trans-1,3-Dichloropropene	25.0	21.1		ug/L		84	70 - 140
Ethylbenzene	25.0	24.4		ug/L		98	80 - 120
Hexachlorobutadiene	25.0	23.6		ug/L		94	70 - 130
2-Hexanone	125	91.6		ug/L		73	60 - 164
Isopropylbenzene	25.0	25.7		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	24.8		ug/L		99	70 - 130
Methylene Chloride	25.0	23.5		ug/L		94	70 - 147
4-Methyl-2-pentanone (MIBK)	125	95.1		ug/L		76	50 - 155
Naphthalene	25.0	21.2		ug/L		85	50 - 130
N-Propylbenzene	25.0	23.8		ug/L		95	70 - 130
Styrene	25.0	24.0		ug/L		96	70 - 130
1,1,1,2-Tetrachloroethane	25.0	24.4		ug/L		97	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	22.1		ug/L		89	70 - 130
Tetrachloroethene	25.0	24.6		ug/L		98	70 - 130
Toluene	25.0	24.3		ug/L		97	78 - 120
1,2,3-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130
1,2,4-Trichlorobenzene	25.0	22.0		ug/L		88	70 - 130
1,1,1-Trichloroethane	25.0	22.4		ug/L		90	70 - 130
1,1,2-Trichloroethane	25.0	22.4		ug/L		90	70 - 130
Trichloroethene	25.0	25.1		ug/L		101	70 - 130
Trichlorofluoromethane	25.0	23.5		ug/L		94	66 - 132
1,2,3-Trichloropropane	25.0	21.5		ug/L		86	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.1		ug/L		93	42 - 162
1,2,4-Trimethylbenzene	25.0	23.6		ug/L		95	70 - 132
1,3,5-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 130
Vinyl acetate	25.0	19.2		ug/L		77	43 - 163
Vinyl chloride	25.0	31.2		ug/L		125	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: LCS 720-214058/6
Matrix: Water
Analysis Batch: 214058

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	24.0		ug/L		96	70 - 142
o-Xylene	25.0	24.0		ug/L		96	70 - 130
2,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	81		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCS 720-214058/8
Matrix: Water
Analysis Batch: 214058

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	464		ug/L		93	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	92		67 - 130
1,2-Dichloroethane-d4 (Surr)	84		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 720-214058/7
Matrix: Water
Analysis Batch: 214058

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	21.3		ug/L		85	62 - 130	1	20
Acetone	125	122		ug/L		98	26 - 180	4	30
Benzene	25.0	23.4		ug/L		94	79 - 130	0	20
Dichlorobromomethane	25.0	22.7		ug/L		91	70 - 130	0	20
Bromobenzene	25.0	23.5		ug/L		94	70 - 130	3	20
Chlorobromomethane	25.0	23.7		ug/L		95	70 - 130	1	20
Bromoform	25.0	21.4		ug/L		86	68 - 136	2	20
Bromomethane	25.0	26.6		ug/L		106	43 - 151	1	20
2-Butanone (MEK)	125	110		ug/L		88	54 - 153	3	20
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 142	2	20
sec-Butylbenzene	25.0	25.4		ug/L		102	70 - 134	3	20
tert-Butylbenzene	25.0	25.8		ug/L		103	70 - 135	4	20
Carbon disulfide	25.0	22.0		ug/L		88	68 - 146	2	20
Carbon tetrachloride	25.0	23.8		ug/L		95	70 - 146	1	20
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130	1	20
Chloroethane	25.0	28.7		ug/L		115	62 - 138	0	20
Chloroform	25.0	23.3		ug/L		93	70 - 130	0	20
Chloromethane	25.0	29.6		ug/L		118	52 - 175	0	20
2-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130	3	20
4-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130	3	20
Chlorodibromomethane	25.0	21.7		ug/L		87	70 - 145	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: LCSD 720-214058/7
Matrix: Water
Analysis Batch: 214058

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	24.0		ug/L		96	70 - 130	2	20
1,3-Dichlorobenzene	25.0	24.1		ug/L		97	70 - 130	1	20
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130	0	20
1,3-Dichloropropane	25.0	23.4		ug/L		93	70 - 130	1	20
1,1-Dichloropropene	25.0	23.8		ug/L		95	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	20.1		ug/L		81	70 - 136	6	20
Ethylene Dibromide	25.0	22.7		ug/L		91	70 - 130	1	20
Dibromomethane	25.0	22.4		ug/L		90	70 - 130	2	20
Dichlorodifluoromethane	25.0	31.3		ug/L		125	32 - 158	0	20
1,1-Dichloroethane	25.0	23.4		ug/L		94	70 - 130	1	20
1,2-Dichloroethane	25.0	22.0		ug/L		88	61 - 132	0	20
1,1-Dichloroethene	25.0	22.8		ug/L		91	64 - 128	2	20
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	68 - 130	1	20
1,2-Dichloropropane	25.0	25.4		ug/L		102	70 - 130	0	20
cis-1,3-Dichloropropene	25.0	23.6		ug/L		95	70 - 130	0	20
trans-1,3-Dichloropropene	25.0	21.1		ug/L		84	70 - 140	0	20
Ethylbenzene	25.0	24.5		ug/L		98	80 - 120	0	20
Hexachlorobutadiene	25.0	23.6		ug/L		94	70 - 130	0	20
2-Hexanone	125	94.7		ug/L		76	60 - 164	3	20
Isopropylbenzene	25.0	25.8		ug/L		103	70 - 130	0	20
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 130	2	20
Methylene Chloride	25.0	23.6		ug/L		95	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	97.5		ug/L		78	50 - 155	2	20
Naphthalene	25.0	22.6		ug/L		90	50 - 130	6	20
N-Propylbenzene	25.0	24.6		ug/L		99	70 - 130	3	20
Styrene	25.0	24.1		ug/L		96	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	24.7		ug/L		99	70 - 130	1	20
1,1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		94	70 - 130	6	20
Tetrachloroethene	25.0	24.6		ug/L		98	70 - 130	0	20
Toluene	25.0	24.4		ug/L		98	78 - 120	0	20
1,2,3-Trichlorobenzene	25.0	21.9		ug/L		88	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	22.0		ug/L		88	70 - 130	0	20
1,1,1-Trichloroethane	25.0	22.6		ug/L		90	70 - 130	1	20
1,1,2-Trichloroethane	25.0	22.5		ug/L		90	70 - 130	1	20
Trichloroethene	25.0	25.0		ug/L		100	70 - 130	1	20
Trichlorofluoromethane	25.0	23.3		ug/L		93	66 - 132	1	20
1,2,3-Trichloropropane	25.0	22.7		ug/L		91	70 - 130	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.4		ug/L		93	42 - 162	1	20
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	2	20
Vinyl acetate	25.0	19.8		ug/L		79	43 - 163	3	20
Vinyl chloride	25.0	30.7		ug/L		123	54 - 135	1	20
m-Xylene & p-Xylene	25.0	24.0		ug/L		96	70 - 142	0	20
o-Xylene	25.0	24.3		ug/L		97	70 - 130	1	20
2,2-Dichloropropane	25.0	23.4		ug/L		93	70 - 140	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: LCSD 720-214058/7
Matrix: Water
Analysis Batch: 214058

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

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	83		72 - 130
Toluene-d8 (Surr)	93		70 - 130

Lab Sample ID: LCSD 720-214058/9
Matrix: Water
Analysis Batch: 214058

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	450		ug/L		90	71 - 125	3	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	90		67 - 130
1,2-Dichloroethane-d4 (Surr)	84		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: 720-76130-1 MS
Matrix: Water
Analysis Batch: 214058

Client Sample ID: INF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier					
Methyl tert-butyl ether	ND		25.0	21.2		ug/L		85	60 - 138	
Acetone	ND		125	102		ug/L		81	60 - 140	
Benzene	ND		25.0	23.0		ug/L		92	60 - 140	
Dichlorobromomethane	ND		25.0	22.5		ug/L		90	60 - 140	
Bromobenzene	ND		25.0	22.7		ug/L		91	60 - 140	
Chlorobromomethane	ND		25.0	23.4		ug/L		94	60 - 140	
Bromoform	ND		25.0	20.7		ug/L		83	56 - 140	
Bromomethane	ND		25.0	25.0		ug/L		100	23 - 140	
2-Butanone (MEK)	ND		125	99.6		ug/L		80	60 - 140	
n-Butylbenzene	ND		25.0	23.5		ug/L		94	60 - 140	
sec-Butylbenzene	ND		25.0	24.2		ug/L		97	60 - 140	
tert-Butylbenzene	ND		25.0	24.5		ug/L		98	60 - 140	
Carbon disulfide	ND		25.0	21.0		ug/L		84	38 - 140	
Carbon tetrachloride	ND		25.0	23.0		ug/L		92	60 - 140	
Chlorobenzene	ND		25.0	24.7		ug/L		99	60 - 140	
Chloroethane	ND		25.0	28.6		ug/L		114	51 - 140	
Chloroform	ND		25.0	23.0		ug/L		92	60 - 140	
Chloromethane	ND		25.0	27.8		ug/L		111	52 - 140	
2-Chlorotoluene	ND		25.0	22.9		ug/L		92	60 - 140	
4-Chlorotoluene	ND		25.0	22.9		ug/L		92	60 - 140	
Chlorodibromomethane	ND		25.0	21.3		ug/L		85	60 - 140	
1,2-Dichlorobenzene	ND		25.0	23.3		ug/L		93	60 - 140	
1,3-Dichlorobenzene	ND		25.0	23.8		ug/L		95	60 - 140	
1,4-Dichlorobenzene	ND		25.0	23.4		ug/L		94	60 - 140	
1,3-Dichloropropane	ND		25.0	22.9		ug/L		92	60 - 140	
1,1-Dichloropropene	ND		25.0	23.2		ug/L		93	60 - 140	

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: 720-76130-1 MS

Matrix: Water

Analysis Batch: 214058

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	18.6		ug/L		74	60 - 140
Ethylene Dibromide	ND		25.0	21.9		ug/L		87	60 - 140
Dibromomethane	ND		25.0	21.9		ug/L		87	60 - 140
Dichlorodifluoromethane	ND		25.0	30.6		ug/L		123	38 - 140
1,1-Dichloroethane	ND		25.0	22.9		ug/L		92	60 - 140
1,2-Dichloroethane	ND		25.0	22.0		ug/L		87	60 - 140
1,1-Dichloroethene	ND		25.0	21.3		ug/L		85	60 - 140
cis-1,2-Dichloroethene	ND		25.0	23.4		ug/L		93	60 - 140
trans-1,2-Dichloroethene	ND		25.0	23.1		ug/L		92	60 - 140
1,2-Dichloropropane	ND		25.0	25.2		ug/L		101	60 - 140
cis-1,3-Dichloropropene	ND		25.0	23.2		ug/L		93	60 - 140
trans-1,3-Dichloropropene	ND		25.0	20.8		ug/L		83	60 - 140
Ethylbenzene	ND		25.0	24.0		ug/L		96	60 - 140
Hexachlorobutadiene	ND		25.0	22.9		ug/L		92	60 - 140
2-Hexanone	ND		125	86.6		ug/L		69	60 - 140
Isopropylbenzene	ND		25.0	25.2		ug/L		101	60 - 140
4-Isopropyltoluene	ND		25.0	24.3		ug/L		97	60 - 140
Methylene Chloride	ND		25.0	21.6		ug/L		86	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	92.2		ug/L		74	58 - 130
Naphthalene	1.0		25.0	21.8		ug/L		83	56 - 140
N-Propylbenzene	ND		25.0	23.4		ug/L		94	60 - 140
Styrene	ND		25.0	23.5		ug/L		94	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	24.0		ug/L		96	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	21.9		ug/L		88	60 - 140
Tetrachloroethene	ND		25.0	24.0		ug/L		96	60 - 140
Toluene	ND		25.0	24.0		ug/L		96	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	21.0		ug/L		84	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	21.7		ug/L		87	60 - 140
1,1,1-Trichloroethane	ND		25.0	22.4		ug/L		89	60 - 140
1,1,2-Trichloroethane	ND		25.0	22.2		ug/L		89	60 - 140
Trichloroethene	ND		25.0	24.5		ug/L		98	60 - 140
Trichlorofluoromethane	ND		25.0	22.7		ug/L		91	60 - 140
1,2,3-Trichloropropane	ND		25.0	20.9		ug/L		84	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.2		ug/L		89	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	23.3		ug/L		93	60 - 140
1,3,5-Trimethylbenzene	1.6		25.0	25.4		ug/L		95	60 - 140
Vinyl acetate	ND		25.0	19.3		ug/L		77	40 - 140
Vinyl chloride	ND		25.0	29.4		ug/L		117	58 - 140
m-Xylene & p-Xylene	ND		25.0	24.5		ug/L		94	60 - 140
o-Xylene	0.83		25.0	24.6		ug/L		95	60 - 140
2,2-Dichloropropane	ND		25.0	23.2		ug/L		93	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	84		72 - 130
Toluene-d8 (Surr)	95		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: 720-76130-1 MSD

Matrix: Water

Analysis Batch: 214058

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	22.1		ug/L		88	60 - 138	4	20
Acetone	ND		125	109		ug/L		87	60 - 140	7	20
Benzene	ND		25.0	23.2		ug/L		93	60 - 140	1	20
Dichlorobromomethane	ND		25.0	23.0		ug/L		92	60 - 140	2	20
Bromobenzene	ND		25.0	23.4		ug/L		94	60 - 140	3	20
Chlorobromomethane	ND		25.0	23.8		ug/L		95	60 - 140	2	20
Bromoform	ND		25.0	21.4		ug/L		86	56 - 140	4	20
Bromomethane	ND		25.0	25.9		ug/L		104	23 - 140	4	20
2-Butanone (MEK)	ND		125	103		ug/L		83	60 - 140	4	20
n-Butylbenzene	ND		25.0	23.2		ug/L		93	60 - 140	1	20
sec-Butylbenzene	ND		25.0	24.4		ug/L		98	60 - 140	1	20
tert-Butylbenzene	ND		25.0	24.9		ug/L		100	60 - 140	2	20
Carbon disulfide	ND		25.0	21.2		ug/L		85	38 - 140	1	20
Carbon tetrachloride	ND		25.0	22.9		ug/L		92	60 - 140	0	20
Chlorobenzene	ND		25.0	25.0		ug/L		100	60 - 140	1	20
Chloroethane	ND		25.0	29.0		ug/L		116	51 - 140	1	20
Chloroform	ND		25.0	23.3		ug/L		93	60 - 140	1	20
Chloromethane	ND		25.0	27.3		ug/L		109	52 - 140	2	20
2-Chlorotoluene	ND		25.0	23.5		ug/L		94	60 - 140	2	20
4-Chlorotoluene	ND		25.0	23.3		ug/L		93	60 - 140	2	20
Chlorodibromomethane	ND		25.0	22.1		ug/L		88	60 - 140	4	20
1,2-Dichlorobenzene	ND		25.0	23.9		ug/L		96	60 - 140	2	20
1,3-Dichlorobenzene	ND		25.0	23.9		ug/L		96	60 - 140	0	20
1,4-Dichlorobenzene	ND		25.0	23.9		ug/L		96	60 - 140	2	20
1,3-Dichloropropane	ND		25.0	23.2		ug/L		93	60 - 140	1	20
1,1-Dichloropropene	ND		25.0	22.9		ug/L		92	60 - 140	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	19.3		ug/L		77	60 - 140	4	20
Ethylene Dibromide	ND		25.0	22.6		ug/L		90	60 - 140	3	20
Dibromomethane	ND		25.0	22.2		ug/L		89	60 - 140	2	20
Dichlorodifluoromethane	ND		25.0	30.0		ug/L		120	38 - 140	2	20
1,1-Dichloroethane	ND		25.0	23.2		ug/L		93	60 - 140	1	20
1,2-Dichloroethane	ND		25.0	22.3		ug/L		88	60 - 140	1	20
1,1-Dichloroethene	ND		25.0	21.6		ug/L		86	60 - 140	1	20
cis-1,2-Dichloroethene	ND		25.0	23.6		ug/L		94	60 - 140	1	20
trans-1,2-Dichloroethene	ND		25.0	23.1		ug/L		92	60 - 140	0	20
1,2-Dichloropropane	ND		25.0	25.7		ug/L		103	60 - 140	2	20
cis-1,3-Dichloropropene	ND		25.0	23.8		ug/L		95	60 - 140	2	20
trans-1,3-Dichloropropene	ND		25.0	21.4		ug/L		85	60 - 140	3	20
Ethylbenzene	ND		25.0	23.8		ug/L		95	60 - 140	1	20
Hexachlorobutadiene	ND		25.0	22.8		ug/L		91	60 - 140	1	20
2-Hexanone	ND		125	87.9		ug/L		70	60 - 140	1	20
Isopropylbenzene	ND		25.0	25.0		ug/L		100	60 - 140	1	20
4-Isopropyltoluene	ND		25.0	24.2		ug/L		97	60 - 140	1	20
Methylene Chloride	ND		25.0	22.3		ug/L		89	40 - 140	3	20
4-Methyl-2-pentanone (MIBK)	ND		125	93.2		ug/L		75	58 - 130	1	20
Naphthalene	1.0		25.0	22.8		ug/L		87	56 - 140	4	20
N-Propylbenzene	ND		25.0	23.8		ug/L		95	60 - 140	2	20
Styrene	ND		25.0	23.8		ug/L		95	60 - 140	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: 720-76130-1 MSD
Matrix: Water
Analysis Batch: 214058

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	24.7		ug/L		99	60 - 140	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	22.8		ug/L		91	60 - 140	4	20
Tetrachloroethene	ND		25.0	23.7		ug/L		95	60 - 140	1	20
Toluene	ND		25.0	24.1		ug/L		96	60 - 140	1	20
1,2,3-Trichlorobenzene	ND		25.0	21.4		ug/L		85	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		25.0	21.6		ug/L		87	60 - 140	0	20
1,1,1-Trichloroethane	ND		25.0	22.5		ug/L		90	60 - 140	1	20
1,1,2-Trichloroethane	ND		25.0	22.7		ug/L		91	60 - 140	2	20
Trichloroethene	ND		25.0	24.5		ug/L		98	60 - 140	0	20
Trichlorofluoromethane	ND		25.0	23.0		ug/L		92	60 - 140	1	20
1,2,3-Trichloropropane	ND		25.0	22.0		ug/L		88	60 - 140	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.5		ug/L		90	60 - 140	1	20
1,2,4-Trimethylbenzene	ND		25.0	23.5		ug/L		94	60 - 140	1	20
1,3,5-Trimethylbenzene	1.6		25.0	25.7		ug/L		96	60 - 140	1	20
Vinyl acetate	ND		25.0	19.8		ug/L		79	40 - 140	3	20
Vinyl chloride	ND		25.0	29.3		ug/L		117	58 - 140	0	20
m-Xylene & p-Xylene	ND		25.0	24.4		ug/L		94	60 - 140	1	20
o-Xylene	0.83		25.0	24.8		ug/L		96	60 - 140	1	20
2,2-Dichloropropane	ND		25.0	22.8		ug/L		91	60 - 140	2	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	86		72 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: MB 720-214088/4
Matrix: Water
Analysis Batch: 214088

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			12/02/16 08:37	1
Acetone	ND		50		ug/L			12/02/16 08:37	1
Benzene	ND		0.50		ug/L			12/02/16 08:37	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 08:37	1
Bromobenzene	ND		1.0		ug/L			12/02/16 08:37	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 08:37	1
Bromoform	ND		1.0		ug/L			12/02/16 08:37	1
Bromomethane	ND		1.0		ug/L			12/02/16 08:37	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 08:37	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 08:37	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 08:37	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 08:37	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 08:37	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 08:37	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 08:37	1
Chloroethane	ND		1.0		ug/L			12/02/16 08:37	1
Chloroform	ND		1.0		ug/L			12/02/16 08:37	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: MB 720-214088/4
Matrix: Water
Analysis Batch: 214088

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0		ug/L			12/02/16 08:37	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 08:37	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 08:37	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 08:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 08:37	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 08:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 08:37	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 08:37	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 08:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 08:37	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 08:37	1
Dibromomethane	ND		0.50		ug/L			12/02/16 08:37	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 08:37	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 08:37	1
1,2-Dichloroethane	ND		0.50		ug/L			12/02/16 08:37	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 08:37	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 08:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 08:37	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 08:37	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			12/02/16 08:37	1
trans-1,3-Dichloropropane	ND		0.50		ug/L			12/02/16 08:37	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 08:37	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 08:37	1
2-Hexanone	ND		50		ug/L			12/02/16 08:37	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 08:37	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 08:37	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 08:37	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 08:37	1
Naphthalene	ND		1.0		ug/L			12/02/16 08:37	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 08:37	1
Styrene	ND		0.50		ug/L			12/02/16 08:37	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 08:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 08:37	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 08:37	1
Toluene	ND		0.50		ug/L			12/02/16 08:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 08:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 08:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 08:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 08:37	1
Trichloroethene	ND		0.50		ug/L			12/02/16 08:37	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 08:37	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 08:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 08:37	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 08:37	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 08:37	1
Vinyl acetate	ND		10		ug/L			12/02/16 08:37	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 08:37	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 08:37	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: MB 720-214088/4
Matrix: Water
Analysis Batch: 214088

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 08:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 08:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		67 - 130		12/02/16 08:37	1
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		12/02/16 08:37	1
Toluene-d8 (Surr)	92		70 - 130		12/02/16 08:37	1

Lab Sample ID: LCS 720-214088/5
Matrix: Water
Analysis Batch: 214088

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	20.4		ug/L		82	62 - 130
Acetone	125	116		ug/L		92	26 - 180
Benzene	25.0	22.6		ug/L		90	79 - 130
Dichlorobromomethane	25.0	22.1		ug/L		88	70 - 130
Bromobenzene	25.0	21.6		ug/L		87	70 - 130
Chlorobromomethane	25.0	22.8		ug/L		91	70 - 130
Bromoform	25.0	20.3		ug/L		81	68 - 136
Bromomethane	25.0	25.1		ug/L		100	43 - 151
2-Butanone (MEK)	125	107		ug/L		86	54 - 153
n-Butylbenzene	25.0	23.5		ug/L		94	70 - 142
sec-Butylbenzene	25.0	23.5		ug/L		94	70 - 134
tert-Butylbenzene	25.0	23.6		ug/L		94	70 - 135
Carbon disulfide	25.0	20.4		ug/L		82	68 - 146
Carbon tetrachloride	25.0	22.8		ug/L		91	70 - 146
Chlorobenzene	25.0	24.2		ug/L		97	70 - 130
Chloroethane	25.0	27.7		ug/L		111	62 - 138
Chloroform	25.0	22.5		ug/L		90	70 - 130
Chloromethane	25.0	28.7		ug/L		115	52 - 175
2-Chlorotoluene	25.0	22.2		ug/L		89	70 - 130
4-Chlorotoluene	25.0	22.2		ug/L		89	70 - 130
Chlorodibromomethane	25.0	20.9		ug/L		83	70 - 145
1,2-Dichlorobenzene	25.0	22.5		ug/L		90	70 - 130
1,3-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,4-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,3-Dichloropropane	25.0	22.4		ug/L		89	70 - 130
1,1-Dichloropropene	25.0	23.2		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	18.4		ug/L		73	70 - 136
Ethylene Dibromide	25.0	21.6		ug/L		87	70 - 130
Dibromomethane	25.0	21.6		ug/L		87	70 - 130
Dichlorodifluoromethane	25.0	30.7		ug/L		123	32 - 158
1,1-Dichloroethane	25.0	22.5		ug/L		90	70 - 130
1,2-Dichloroethane	25.0	21.3		ug/L		85	61 - 132
1,1-Dichloroethene	25.0	21.1		ug/L		84	64 - 128
cis-1,2-Dichloroethene	25.0	22.9		ug/L		92	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: LCS 720-214088/5
Matrix: Water
Analysis Batch: 214088

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	25.0	22.8		ug/L		91	68 - 130
1,2-Dichloropropane	25.0	24.7		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	23.0		ug/L		92	70 - 130
trans-1,3-Dichloropropene	25.0	20.7		ug/L		83	70 - 140
Ethylbenzene	25.0	23.5		ug/L		94	80 - 120
Hexachlorobutadiene	25.0	22.3		ug/L		89	70 - 130
2-Hexanone	125	92.9		ug/L		74	60 - 164
Isopropylbenzene	25.0	24.5		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	23.8		ug/L		95	70 - 130
Methylene Chloride	25.0	21.7		ug/L		87	70 - 147
4-Methyl-2-pentanone (MIBK)	125	97.0		ug/L		78	50 - 155
Naphthalene	25.0	20.5		ug/L		82	50 - 130
N-Propylbenzene	25.0	23.0		ug/L		92	70 - 130
Styrene	25.0	22.9		ug/L		92	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.2		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.6		ug/L		86	70 - 130
Tetrachloroethene	25.0	24.1		ug/L		97	70 - 130
Toluene	25.0	23.4		ug/L		93	78 - 120
1,2,3-Trichlorobenzene	25.0	20.7		ug/L		83	70 - 130
1,2,4-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130
1,1,1-Trichloroethane	25.0	21.6		ug/L		87	70 - 130
1,1,2-Trichloroethane	25.0	21.5		ug/L		86	70 - 130
Trichloroethene	25.0	24.3		ug/L		97	70 - 130
Trichlorofluoromethane	25.0	22.4		ug/L		90	66 - 132
1,2,3-Trichloropropane	25.0	20.7		ug/L		83	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.8		ug/L		87	42 - 162
1,2,4-Trimethylbenzene	25.0	22.6		ug/L		91	70 - 132
1,3,5-Trimethylbenzene	25.0	22.9		ug/L		92	70 - 130
Vinyl acetate	25.0	19.8		ug/L		79	43 - 163
Vinyl chloride	25.0	29.8		ug/L		119	54 - 135
m-Xylene & p-Xylene	25.0	23.1		ug/L		92	70 - 142
o-Xylene	25.0	23.0		ug/L		92	70 - 130
2,2-Dichloropropane	25.0	23.4		ug/L		94	70 - 140

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	92		67 - 130
1,2-Dichloroethane-d4 (Surr)	83		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCS 720-214088/7
Matrix: Water
Analysis Batch: 214088

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	442		ug/L		88	71 - 125

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: LCS 720-214088/7
Matrix: Water
Analysis Batch: 214088

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

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	87		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 720-214088/6
Matrix: Water
Analysis Batch: 214088

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	RPD Limit
							Limits	RPD		
Methyl tert-butyl ether	25.0	22.1		ug/L		88	62 - 130	8	20	
Acetone	125	140		ug/L		112	26 - 180	19	30	
Benzene	25.0	22.8		ug/L		91	79 - 130	1	20	
Dichlorobromomethane	25.0	22.7		ug/L		91	70 - 130	2	20	
Bromobenzene	25.0	22.3		ug/L		89	70 - 130	3	20	
Chlorobromomethane	25.0	24.0		ug/L		96	70 - 130	5	20	
Bromoform	25.0	21.9		ug/L		88	68 - 136	8	20	
Bromomethane	25.0	26.4		ug/L		106	43 - 151	5	20	
2-Butanone (MEK)	125	122		ug/L		97	54 - 153	13	20	
n-Butylbenzene	25.0	23.2		ug/L		93	70 - 142	1	20	
sec-Butylbenzene	25.0	23.6		ug/L		94	70 - 134	0	20	
tert-Butylbenzene	25.0	23.8		ug/L		95	70 - 135	1	20	
Carbon disulfide	25.0	21.0		ug/L		84	68 - 146	3	20	
Carbon tetrachloride	25.0	22.8		ug/L		91	70 - 146	0	20	
Chlorobenzene	25.0	24.4		ug/L		98	70 - 130	1	20	
Chloroethane	25.0	28.2		ug/L		113	62 - 138	2	20	
Chloroform	25.0	22.9		ug/L		92	70 - 130	2	20	
Chloromethane	25.0	28.6		ug/L		115	52 - 175	0	20	
2-Chlorotoluene	25.0	22.4		ug/L		89	70 - 130	1	20	
4-Chlorotoluene	25.0	22.5		ug/L		90	70 - 130	1	20	
Chlorodibromomethane	25.0	22.2		ug/L		89	70 - 145	6	20	
1,2-Dichlorobenzene	25.0	23.1		ug/L		92	70 - 130	3	20	
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130	0	20	
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	1	20	
1,3-Dichloropropane	25.0	23.8		ug/L		95	70 - 130	6	20	
1,1-Dichloropropane	25.0	23.1		ug/L		92	70 - 130	1	20	
1,2-Dibromo-3-Chloropropane	25.0	20.2		ug/L		81	70 - 136	9	20	
Ethylene Dibromide	25.0	23.2		ug/L		93	70 - 130	7	20	
Dibromomethane	25.0	22.5		ug/L		90	70 - 130	4	20	
Dichlorodifluoromethane	25.0	31.1		ug/L		124	32 - 158	1	20	
1,1-Dichloroethane	25.0	22.8		ug/L		91	70 - 130	1	20	
1,2-Dichloroethane	25.0	22.1		ug/L		89	61 - 132	4	20	
1,1-Dichloroethene	25.0	21.3		ug/L		85	64 - 128	1	20	
cis-1,2-Dichloroethene	25.0	23.4		ug/L		93	70 - 130	2	20	
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	68 - 130	1	20	
1,2-Dichloropropane	25.0	25.1		ug/L		100	70 - 130	2	20	
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	70 - 130	3	20	
trans-1,3-Dichloropropene	25.0	21.8		ug/L		87	70 - 140	5	20	
Ethylbenzene	25.0	23.5		ug/L		94	80 - 120	0	20	

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: LCSD 720-214088/6
Matrix: Water
Analysis Batch: 214088

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
Hexachlorobutadiene	25.0	22.1		ug/L		88	70 - 130	1	20
2-Hexanone	125	106		ug/L		85	60 - 164	14	20
Isopropylbenzene	25.0	24.3		ug/L		97	70 - 130	1	20
4-Isopropyltoluene	25.0	23.8		ug/L		95	70 - 130	0	20
Methylene Chloride	25.0	22.7		ug/L		91	70 - 147	4	20
4-Methyl-2-pentanone (MIBK)	125	108		ug/L		87	50 - 155	11	20
Naphthalene	25.0	22.3		ug/L		89	50 - 130	8	20
N-Propylbenzene	25.0	23.0		ug/L		92	70 - 130	0	20
Styrene	25.0	23.2		ug/L		93	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	23.6		ug/L		95	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	23.2		ug/L		93	70 - 130	7	20
Tetrachloroethene	25.0	24.2		ug/L		97	70 - 130	0	20
Toluene	25.0	23.4		ug/L		93	78 - 120	0	20
1,2,3-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	21.7		ug/L		87	70 - 130	1	20
1,1,1-Trichloroethane	25.0	21.9		ug/L		88	70 - 130	1	20
1,1,2-Trichloroethane	25.0	22.9		ug/L		92	70 - 130	6	20
Trichloroethene	25.0	24.5		ug/L		98	70 - 130	1	20
Trichlorofluoromethane	25.0	22.6		ug/L		90	66 - 132	1	20
1,2,3-Trichloropropane	25.0	22.8		ug/L		91	70 - 130	9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.3		ug/L		89	42 - 162	3	20
1,2,4-Trimethylbenzene	25.0	22.8		ug/L		91	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	23.2		ug/L		93	70 - 130	1	20
Vinyl acetate	25.0	21.1		ug/L		84	43 - 163	6	20
Vinyl chloride	25.0	30.3		ug/L		121	54 - 135	1	20
m-Xylene & p-Xylene	25.0	23.1		ug/L		92	70 - 142	0	20
o-Xylene	25.0	23.2		ug/L		93	70 - 130	1	20
2,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 140	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	92		67 - 130
1,2-Dichloroethane-d4 (Surr)	86		72 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: LCSD 720-214088/8
Matrix: Water
Analysis Batch: 214088

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	444		ug/L		89	71 - 125	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	92		67 - 130
1,2-Dichloroethane-d4 (Surr)	86		72 - 130
Toluene-d8 (Surr)	94		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-214054/4
Matrix: Water
Analysis Batch: 214054

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			12/01/16 15:41	1
Nitrate as NO3	ND		1.0		mg/L			12/01/16 15:41	1

Lab Sample ID: LCS 720-214054/5
Matrix: Water
Analysis Batch: 214054

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	10.6		mg/L		106	90 - 110
Nitrate as NO3	10.0	9.17		mg/L		92	90 - 110

Lab Sample ID: MB 720-214105/19
Matrix: Water
Analysis Batch: 214105

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			12/02/16 16:38	1
Nitrate as NO3	ND		1.0		mg/L			12/02/16 16:38	1

Lab Sample ID: LCS 720-214105/20
Matrix: Water
Analysis Batch: 214105

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	10.3		mg/L		103	90 - 110
Nitrate as NO3	10.0	10.2		mg/L		102	90 - 110

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-214229/1-A
Matrix: Water
Analysis Batch: 214329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 214229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		12/06/16 09:46	12/06/16 18:57	1

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 720-214134/10
Matrix: Water
Analysis Batch: 214134

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			12/02/16 13:58	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Method: SM 3500 Fe B - Iron, Ferrous (Continued)

Lab Sample ID: LCS 720-214134/11
Matrix: Water
Analysis Batch: 214134

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	0.977		mg/L		98	85 - 115

Lab Sample ID: 720-76130-4 MS
Matrix: Water
Analysis Batch: 214134

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	ND	HF	1.00	0.935		mg/L		94	75 - 125

Lab Sample ID: 720-76130-4 MSD
Matrix: Water
Analysis Batch: 214134

Client Sample ID: MW-13
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	ND	HF	1.00	0.963		mg/L		96	75 - 125	3	20

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-363686/1-A
Matrix: Water
Analysis Batch: 363709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		12/05/16 16:45	12/05/16 18:51	1

Lab Sample ID: LCS 500-363686/2-A
Matrix: Water
Analysis Batch: 363709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.50	2.43		mg/L		97	80 - 120

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

GC/MS VOA

Analysis Batch: 214058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-1	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-2	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-4	MW-13	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-5	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-6	MW-16	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-7	MW-15	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-8	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-9	GAC	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-214058/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-214058/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-214058/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-214058/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-214058/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-1 MS	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-1 MSD	INF	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 214088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-214088/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-214088/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-214088/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-214088/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-214088/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

HPLC/IC

Analysis Batch: 214054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	300.0	
720-76130-4	MW-13	Total/NA	Water	300.0	
720-76130-5	MW-10	Total/NA	Water	300.0	
720-76130-6	MW-16	Total/NA	Water	300.0	
720-76130-7	MW-15	Total/NA	Water	300.0	
720-76130-7	MW-15	Total/NA	Water	300.0	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

HPLC/IC (Continued)

Analysis Batch: 214054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-8	MW-9	Total/NA	Water	300.0	
MB 720-214054/4	Method Blank	Total/NA	Water	300.0	
LCS 720-214054/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 214105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-4	MW-13	Total/NA	Water	300.0	
720-76130-5	MW-10	Total/NA	Water	300.0	
720-76130-6	MW-16	Total/NA	Water	300.0	
720-76130-8	MW-9	Total/NA	Water	300.0	
MB 720-214105/19	Method Blank	Total/NA	Water	300.0	
LCS 720-214105/20	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 214229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	200.7	
720-76130-4	MW-13	Total/NA	Water	200.7	
720-76130-5	MW-10	Total/NA	Water	200.7	
720-76130-6	MW-16	Total/NA	Water	200.7	
720-76130-7	MW-15	Total/NA	Water	200.7	
720-76130-8	MW-9	Total/NA	Water	200.7	
MB 720-214229/1-A	Method Blank	Total/NA	Water	200.7	
LCS 720-214229/2-A	Lab Control Sample	Total/NA	Water	200.7	
720-76130-3 MS	MW-14	Total/NA	Water	200.7	
720-76130-3 MSD	MW-14	Total/NA	Water	200.7	

Analysis Batch: 214329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	200.7 Rev 4.4	214229
720-76130-4	MW-13	Total/NA	Water	200.7 Rev 4.4	214229
720-76130-5	MW-10	Total/NA	Water	200.7 Rev 4.4	214229
720-76130-6	MW-16	Total/NA	Water	200.7 Rev 4.4	214229
720-76130-7	MW-15	Total/NA	Water	200.7 Rev 4.4	214229
720-76130-8	MW-9	Total/NA	Water	200.7 Rev 4.4	214229
MB 720-214229/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	214229
LCS 720-214229/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	214229
720-76130-3 MS	MW-14	Total/NA	Water	200.7 Rev 4.4	214229
720-76130-3 MSD	MW-14	Total/NA	Water	200.7 Rev 4.4	214229

General Chemistry

Analysis Batch: 214134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	SM 3500 Fe B	
720-76130-4	MW-13	Total/NA	Water	SM 3500 Fe B	
720-76130-5	MW-10	Total/NA	Water	SM 3500 Fe B	
720-76130-6	MW-16	Total/NA	Water	SM 3500 Fe B	
720-76130-7	MW-15	Total/NA	Water	SM 3500 Fe B	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

General Chemistry (Continued)

Analysis Batch: 214134 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-8	MW-9	Total/NA	Water	SM 3500 Fe B	
MB 720-214134/10	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 720-214134/11	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	
720-76130-4 MS	MW-13	Total/NA	Water	SM 3500 Fe B	
720-76130-4 MSD	MW-13	Total/NA	Water	SM 3500 Fe B	

Analysis Batch: 214351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	SM 3500	
720-76130-4	MW-13	Total/NA	Water	SM 3500	
720-76130-5	MW-10	Total/NA	Water	SM 3500	
720-76130-6	MW-16	Total/NA	Water	SM 3500	
720-76130-7	MW-15	Total/NA	Water	SM 3500	
720-76130-8	MW-9	Total/NA	Water	SM 3500	

Prep Batch: 363686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	SM 4500 NH3 B	
720-76130-4	MW-13	Total/NA	Water	SM 4500 NH3 B	
720-76130-5	MW-10	Total/NA	Water	SM 4500 NH3 B	
720-76130-6	MW-16	Total/NA	Water	SM 4500 NH3 B	
720-76130-7	MW-15	Total/NA	Water	SM 4500 NH3 B	
720-76130-8	MW-9	Total/NA	Water	SM 4500 NH3 B	
MB 500-363686/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 500-363686/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 363709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	SM 4500 NH3 G	363686
720-76130-4	MW-13	Total/NA	Water	SM 4500 NH3 G	363686
720-76130-5	MW-10	Total/NA	Water	SM 4500 NH3 G	363686
720-76130-6	MW-16	Total/NA	Water	SM 4500 NH3 G	363686
720-76130-7	MW-15	Total/NA	Water	SM 4500 NH3 G	363686
720-76130-8	MW-9	Total/NA	Water	SM 4500 NH3 G	363686
MB 500-363686/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	363686
LCS 500-363686/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	363686

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: INF

Date Collected: 12/01/16 08:15

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-1

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	214058	12/02/16 00:00	LPL	TAL PLS

Client Sample ID: EFF

Date Collected: 12/01/16 08:17

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-2

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	214058	12/02/16 01:27	LPL	TAL PLS

Client Sample ID: MW-14

Date Collected: 12/01/16 11:00

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	214088	12/02/16 15:24	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214054	12/01/16 20:43	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 19:35	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363686	12/05/16 16:45	JB	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363709		JB	TAL CHI
					(Start)	12/05/16 18:57		
					(End)	12/05/16 18:59		

Client Sample ID: MW-13

Date Collected: 12/01/16 11:25

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-4

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	214058	12/02/16 02:25	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214054	12/01/16 21:17	ECB	TAL PLS
Total/NA	Analysis	300.0		100	214105	12/02/16 17:47	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 19:40	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363686	12/05/16 16:45	JB	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363709		JB	TAL CHI
					(Start)	12/05/16 18:59		
					(End)	12/05/16 19:02		

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-10

Date Collected: 12/01/16 12:45

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-5

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	214058	12/02/16 02:54	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214054	12/01/16 21:51	ECB	TAL PLS
Total/NA	Analysis	300.0		100	214105	12/02/16 18:04	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 19:45	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363686	12/05/16 16:45	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363709		JBJ	TAL CHI
						(Start) 12/05/16 19:02		
						(End) 12/05/16 19:05		

Client Sample ID: MW-16

Date Collected: 12/01/16 14:10

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-6

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	214058	12/02/16 03:23	LPL	TAL PLS
Total/NA	Analysis	300.0		10	214054	12/01/16 22:44	ECB	TAL PLS
Total/NA	Analysis	300.0		100	214105	12/02/16 18:21	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 19:50	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363686	12/05/16 16:45	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363709		JBJ	TAL CHI
						(Start) 12/05/16 19:05		
						(End) 12/05/16 19:08		

Client Sample ID: MW-15

Date Collected: 12/01/16 14:52

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-7

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	214058	12/02/16 03:52	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214054	12/01/16 23:01	ECB	TAL PLS
Total/NA	Analysis	300.0		10	214054	12/01/16 23:18	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 19:55	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363686	12/05/16 16:45	JBJ	TAL CHI

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-15

Date Collected: 12/01/16 14:52

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 G		1	363709	12/05/16 19:08 12/05/16 19:10	JBJ	TAL CHI

Client Sample ID: MW-9

Date Collected: 12/01/16 13:22

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-8

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	214058	12/02/16 04:21	LPL	TAL PLS
Total/NA	Analysis	300.0		10	214054	12/02/16 00:26	ECB	TAL PLS
Total/NA	Analysis	300.0		100	214105	12/02/16 18:38	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 19:59	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363686	12/05/16 16:45	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363709	12/05/16 19:10 12/05/16 19:13	JBJ	TAL CHI

Client Sample ID: GAC

Date Collected: 12/01/16 15:21

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-9

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	214058	12/02/16 04:50	LPL	TAL PLS

Laboratory References:

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

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: 720-76130-1

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

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
Kentucky (WW)	State Program	4	KY90023	12-31-16 *
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	12-31-16 *
North Dakota	State Program	8	R-194	04-30-17
Oklahoma	State Program	6	8908	08-31-17
South Carolina	State Program	4	77001	04-30-17
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

* Certification renewal pending - certification considered valid.

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS
300.0	Anions, Ion Chromatography	MCAWW	TAL PLS
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PLS
SM 3500	Iron, Ferric	SM	TAL PLS
SM 3500 Fe B	Iron, Ferrous	SM	TAL PLS
SM 4500 NH3 G	Ammonia	SM	TAL CHI

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

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-76130-1	INF	Water	12/01/16 08:15	12/01/16 16:40
720-76130-2	EFF	Water	12/01/16 08:17	12/01/16 16:40
720-76130-3	MW-14	Water	12/01/16 11:00	12/01/16 16:40
720-76130-4	MW-13	Water	12/01/16 11:25	12/01/16 16:40
720-76130-5	MW-10	Water	12/01/16 12:45	12/01/16 16:40
720-76130-6	MW-16	Water	12/01/16 14:10	12/01/16 16:40
720-76130-7	MW-15	Water	12/01/16 14:52	12/01/16 16:40
720-76130-8	MW-9	Water	12/01/16 13:22	12/01/16 16:40
720-76130-9	GAC	Water	12/01/16 15:21	12/01/16 16:40



Duong, Paloma

MZ6116

From: Peter Sims <psims@ninyoandmoore.com>
Sent: Thursday, December 01, 2016 4:51 PM
To: Duong, Paloma
Subject: Re: Chun samples

Paloma,

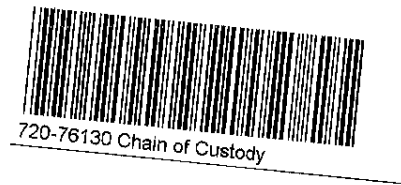
✓ Samples EFF, GAC, and INF will be analyzed for VOCs and TPHg by 8260B

The remaining samples will be analyzed for:

- ✓ TPHg and VOCs by EPA 8260B
- ✓ Iron by EPA 200.7
- ✓ Ferric Iron by calculation
- ✓ Ferrous Iron by SM3500-Fe
- ✓ Nitrate and Nitrite by EPA 300.0
- ✓ Nitrogen, Ammonia by SM 4500-NH3 D

Thanks,

Peter Sims
Project Environmental Geologist
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland CA, 94612
c: 510-327-9335
o: 510-343-3000



From: Duong, Paloma <Paloma.Duong@testamericainc.com>
Sent: Thursday, December 1, 2016 3:44:01 PM
To: Peter Sims
Subject: RE: Chun samples

Thank you Peter. I will wait for this updated list of methods.

PALOMA DUONG
Project Manager I

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
1220 Quarry Lane
Pleasanton, CA 94566
Tel 925-484-1919 ext.114

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

From: Peter Sims [<mailto:psims@ninyoandmoore.com>]
Sent: Thursday, December 01, 2016 3:43 PM

To: Duong, Paloma
Subject: Chun samples

Hi Paloma, I forgot to bring the list of analyses with me into the field today so the COC you will receive with samples collected today doesn't have any analyses selected. I will email later tonight with the analyses I need.

Thanks

Peter Sims
Project Environmental Geologist
Ninyo & Moore
psims@ninyoandmoore.com
cell: 510-327-9335
office: 510-343-3000



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-76130-1

Login Number: 76130

List Number: 1

Creator: Mullen, Joan

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.	False	
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").	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: 720-76130-1

Login Number: 76130
List Number: 2
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago
List Creation: 12/03/16 11:43 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	-2.8
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	



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: 720-76130-1
Client Project/Site: Chun

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

Attn: Mr. Peter D. Sims



Authorized for release by:
12/8/2016 2:25:53 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.

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Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Qualifiers

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.
▫	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: 720-76130-1

Job ID: 720-76130-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-76130-1

Comments

No additional comments.

Receipt

The samples were received on 12/1/2016 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

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

Metals

Method 200.7: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: MW-15 (720-76130-7). The sample was preserved to the appropriate pH in the laboratory. Added 1 mL HNO₃ 12/1/16 @ 1817, ref# 214086.

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

General Chemistry

Method 300.0: The continuing calibration verification (CCV) associated with batch 720-214054 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-14 (720-76130-3), MW-13 (720-76130-4), MW-10 (720-76130-5) and MW-15 (720-76130-7).

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: 720-76130-1

Client Sample ID: INF

Lab Sample ID: 720-76130-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.0		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	1.6		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	1.8		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	54		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: EFF

Lab Sample ID: 720-76130-2

No Detections.

Client Sample ID: MW-14

Lab Sample ID: 720-76130-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	220		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	14		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
sec-Butylbenzene	7.0		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	93		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	33		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Naphthalene	220		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	32		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Toluene	54		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	200		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	23		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	290		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2100		250		ug/L	5		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	3.3		1.0		mg/L	1		300.0	Total/NA
Iron	7.9		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	6.0		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	1.9	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 720-76130-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.8		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	1.1		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	240		100		mg/L	100		300.0	Total/NA
Iron	6.0		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	6.0		0.10		mg/L	1		SM 3500	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-10

Lab Sample ID: 720-76130-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as NO3	190		100		mg/L	100		300.0	Total/NA
Iron	15		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	15		0.10		mg/L	1		SM 3500	Total/NA

Client Sample ID: MW-16

Lab Sample ID: 720-76130-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	1.1		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	130		10		mg/L	10		300.0	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 720-76130-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.7		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	0.94		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	38		10		mg/L	10		300.0	Total/NA
Iron	24		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	24		0.10		mg/L	1		SM 3500	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 720-76130-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as NO3	180		10		mg/L	10		300.0	Total/NA
Iron	25		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	25		0.10		mg/L	1		SM 3500	Total/NA

Client Sample ID: GAC

Lab Sample ID: 720-76130-9

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: 720-76130-1

Client Sample ID: INF

Date Collected: 12/01/16 08:15

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-1

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			12/02/16 00:00	1
Acetone	ND		50		ug/L			12/02/16 00:00	1
Benzene	ND		0.50		ug/L			12/02/16 00:00	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 00:00	1
Bromobenzene	ND		1.0		ug/L			12/02/16 00:00	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 00:00	1
Bromoform	ND		1.0		ug/L			12/02/16 00:00	1
Bromomethane	ND		1.0		ug/L			12/02/16 00:00	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 00:00	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 00:00	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 00:00	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 00:00	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 00:00	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 00:00	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 00:00	1
Chloroethane	ND		1.0		ug/L			12/02/16 00:00	1
Chloroform	ND		1.0		ug/L			12/02/16 00:00	1
Chloromethane	ND		1.0		ug/L			12/02/16 00:00	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 00:00	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 00:00	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 00:00	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 00:00	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 00:00	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 00:00	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 00:00	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 00:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 00:00	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 00:00	1
Dibromomethane	ND		0.50		ug/L			12/02/16 00:00	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 00:00	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 00:00	1
1,2-Dichloroethane	ND		0.50		ug/L			12/02/16 00:00	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 00:00	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 00:00	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 00:00	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 00:00	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 00:00	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 00:00	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 00:00	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 00:00	1
2-Hexanone	ND		50		ug/L			12/02/16 00:00	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 00:00	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 00:00	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 00:00	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 00:00	1
Naphthalene	1.0		1.0		ug/L			12/02/16 00:00	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 00:00	1
Styrene	ND		0.50		ug/L			12/02/16 00:00	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 00:00	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: INF

Lab Sample ID: 720-76130-1

Date Collected: 12/01/16 08:15

Matrix: Water

Date Received: 12/01/16 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			12/02/16 00:00	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 00:00	1
Toluene	ND		0.50		ug/L			12/02/16 00:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 00:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 00:00	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 00:00	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 00:00	1
Trichloroethene	ND		0.50		ug/L			12/02/16 00:00	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 00:00	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 00:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 00:00	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 00:00	1
1,3,5-Trimethylbenzene	1.6		0.50		ug/L			12/02/16 00:00	1
Vinyl acetate	ND		10		ug/L			12/02/16 00:00	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 00:00	1
Xylenes, Total	1.8		1.0		ug/L			12/02/16 00:00	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 00:00	1
Gasoline Range Organics (GRO)	54		50		ug/L			12/02/16 00:00	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		67 - 130		12/02/16 00:00	1
1,2-Dichloroethane-d4 (Surr)	87		72 - 130		12/02/16 00:00	1
Toluene-d8 (Surr)	93		70 - 130		12/02/16 00:00	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: EFF
Date Collected: 12/01/16 08:17
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-2
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			12/02/16 01:27	1
Acetone	ND		50		ug/L			12/02/16 01:27	1
Benzene	ND		0.50		ug/L			12/02/16 01:27	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 01:27	1
Bromobenzene	ND		1.0		ug/L			12/02/16 01:27	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 01:27	1
Bromoform	ND		1.0		ug/L			12/02/16 01:27	1
Bromomethane	ND		1.0		ug/L			12/02/16 01:27	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 01:27	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 01:27	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 01:27	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 01:27	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 01:27	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 01:27	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 01:27	1
Chloroethane	ND		1.0		ug/L			12/02/16 01:27	1
Chloroform	ND		1.0		ug/L			12/02/16 01:27	1
Chloromethane	ND		1.0		ug/L			12/02/16 01:27	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 01:27	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 01:27	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 01:27	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 01:27	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 01:27	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 01:27	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 01:27	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 01:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 01:27	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 01:27	1
Dibromomethane	ND		0.50		ug/L			12/02/16 01:27	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 01:27	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 01:27	1
1,2-Dichloroethane	ND		0.50		ug/L			12/02/16 01:27	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 01:27	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 01:27	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 01:27	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 01:27	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 01:27	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 01:27	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 01:27	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 01:27	1
2-Hexanone	ND		50		ug/L			12/02/16 01:27	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 01:27	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 01:27	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 01:27	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 01:27	1
Naphthalene	ND		1.0		ug/L			12/02/16 01:27	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 01:27	1
Styrene	ND		0.50		ug/L			12/02/16 01:27	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 01:27	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: EFF
Date Collected: 12/01/16 08:17
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-2
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			12/02/16 01:27	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 01:27	1
Toluene	ND		0.50		ug/L			12/02/16 01:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 01:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 01:27	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 01:27	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 01:27	1
Trichloroethene	ND		0.50		ug/L			12/02/16 01:27	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 01:27	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 01:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 01:27	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 01:27	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 01:27	1
Vinyl acetate	ND		10		ug/L			12/02/16 01:27	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 01:27	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 01:27	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 01:27	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 01:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		67 - 130					12/02/16 01:27	1
1,2-Dichloroethane-d4 (Surr)	87		72 - 130					12/02/16 01:27	1
Toluene-d8 (Surr)	94		70 - 130					12/02/16 01:27	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-14
Date Collected: 12/01/16 11:00
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-3
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		2.5		ug/L			12/02/16 15:24	5
Acetone	ND		250		ug/L			12/02/16 15:24	5
Benzene	220		2.5		ug/L			12/02/16 15:24	5
Dichlorobromomethane	ND		2.5		ug/L			12/02/16 15:24	5
Bromobenzene	ND		5.0		ug/L			12/02/16 15:24	5
Chlorobromomethane	ND		5.0		ug/L			12/02/16 15:24	5
Bromoform	ND		5.0		ug/L			12/02/16 15:24	5
Bromomethane	ND		5.0		ug/L			12/02/16 15:24	5
2-Butanone (MEK)	ND		250		ug/L			12/02/16 15:24	5
n-Butylbenzene	14		5.0		ug/L			12/02/16 15:24	5
sec-Butylbenzene	7.0		5.0		ug/L			12/02/16 15:24	5
tert-Butylbenzene	ND		5.0		ug/L			12/02/16 15:24	5
Carbon disulfide	ND		25		ug/L			12/02/16 15:24	5
Carbon tetrachloride	ND		2.5		ug/L			12/02/16 15:24	5
Chlorobenzene	ND		2.5		ug/L			12/02/16 15:24	5
Chloroethane	ND		5.0		ug/L			12/02/16 15:24	5
Chloroform	ND		5.0		ug/L			12/02/16 15:24	5
Chloromethane	ND		5.0		ug/L			12/02/16 15:24	5
2-Chlorotoluene	ND		2.5		ug/L			12/02/16 15:24	5
4-Chlorotoluene	ND		2.5		ug/L			12/02/16 15:24	5
Chlorodibromomethane	ND		2.5		ug/L			12/02/16 15:24	5
1,2-Dichlorobenzene	ND		2.5		ug/L			12/02/16 15:24	5
1,3-Dichlorobenzene	ND		2.5		ug/L			12/02/16 15:24	5
1,4-Dichlorobenzene	ND		2.5		ug/L			12/02/16 15:24	5
1,3-Dichloropropane	ND		5.0		ug/L			12/02/16 15:24	5
1,1-Dichloropropene	ND		2.5		ug/L			12/02/16 15:24	5
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			12/02/16 15:24	5
Ethylene Dibromide	ND		2.5		ug/L			12/02/16 15:24	5
Dibromomethane	ND		2.5		ug/L			12/02/16 15:24	5
Dichlorodifluoromethane	ND		2.5		ug/L			12/02/16 15:24	5
1,1-Dichloroethane	ND		2.5		ug/L			12/02/16 15:24	5
1,2-Dichloroethane	ND		2.5		ug/L			12/02/16 15:24	5
1,1-Dichloroethene	ND		2.5		ug/L			12/02/16 15:24	5
cis-1,2-Dichloroethene	ND		2.5		ug/L			12/02/16 15:24	5
trans-1,2-Dichloroethene	ND		2.5		ug/L			12/02/16 15:24	5
1,2-Dichloropropane	ND		2.5		ug/L			12/02/16 15:24	5
cis-1,3-Dichloropropene	ND		2.5		ug/L			12/02/16 15:24	5
trans-1,3-Dichloropropene	ND		2.5		ug/L			12/02/16 15:24	5
Ethylbenzene	93		2.5		ug/L			12/02/16 15:24	5
Hexachlorobutadiene	ND		5.0		ug/L			12/02/16 15:24	5
2-Hexanone	ND		250		ug/L			12/02/16 15:24	5
Isopropylbenzene	33		2.5		ug/L			12/02/16 15:24	5
4-Isopropyltoluene	ND		5.0		ug/L			12/02/16 15:24	5
Methylene Chloride	ND		25		ug/L			12/02/16 15:24	5
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			12/02/16 15:24	5
Naphthalene	220		5.0		ug/L			12/02/16 15:24	5
N-Propylbenzene	32		5.0		ug/L			12/02/16 15:24	5
Styrene	ND		2.5		ug/L			12/02/16 15:24	5
1,1,1,2-Tetrachloroethane	ND		2.5		ug/L			12/02/16 15:24	5

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-14

Lab Sample ID: 720-76130-3

Date Collected: 12/01/16 11:00

Matrix: Water

Date Received: 12/01/16 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		2.5		ug/L			12/02/16 15:24	5
Tetrachloroethene	ND		2.5		ug/L			12/02/16 15:24	5
Toluene	54		2.5		ug/L			12/02/16 15:24	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			12/02/16 15:24	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			12/02/16 15:24	5
1,1,1-Trichloroethane	ND		2.5		ug/L			12/02/16 15:24	5
1,1,2-Trichloroethane	ND		2.5		ug/L			12/02/16 15:24	5
Trichloroethene	ND		2.5		ug/L			12/02/16 15:24	5
Trichlorofluoromethane	ND		5.0		ug/L			12/02/16 15:24	5
1,2,3-Trichloropropane	ND		2.5		ug/L			12/02/16 15:24	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5		ug/L			12/02/16 15:24	5
1,2,4-Trimethylbenzene	200		2.5		ug/L			12/02/16 15:24	5
1,3,5-Trimethylbenzene	23		2.5		ug/L			12/02/16 15:24	5
Vinyl acetate	ND		50		ug/L			12/02/16 15:24	5
Vinyl chloride	ND		2.5		ug/L			12/02/16 15:24	5
Xylenes, Total	290		5.0		ug/L			12/02/16 15:24	5
2,2-Dichloropropane	ND		2.5		ug/L			12/02/16 15:24	5
Gasoline Range Organics (GRO)	2100		250		ug/L			12/02/16 15:24	5
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130		12/02/16 15:24	5
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		12/02/16 15:24	5
Toluene-d8 (Surr)	94		70 - 130		12/02/16 15:24	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			12/01/16 20:43	1
Nitrate as NO3	3.3		1.0		mg/L			12/01/16 20:43	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7.9		1.0		mg/L		12/06/16 09:46	12/06/16 19:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	6.0		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	1.9	HF	0.10		mg/L			12/02/16 13:58	1
Ammonia	ND		0.20		mg/L		12/05/16 16:45	12/05/16 18:57	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-13

Date Collected: 12/01/16 11:25

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-4

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	1.8		0.50		ug/L			12/02/16 02:25	1
Acetone	ND		50		ug/L			12/02/16 02:25	1
Benzene	ND		0.50		ug/L			12/02/16 02:25	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 02:25	1
Bromobenzene	ND		1.0		ug/L			12/02/16 02:25	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 02:25	1
Bromoform	ND		1.0		ug/L			12/02/16 02:25	1
Bromomethane	ND		1.0		ug/L			12/02/16 02:25	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 02:25	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 02:25	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 02:25	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 02:25	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 02:25	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 02:25	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 02:25	1
Chloroethane	ND		1.0		ug/L			12/02/16 02:25	1
Chloroform	ND		1.0		ug/L			12/02/16 02:25	1
Chloromethane	ND		1.0		ug/L			12/02/16 02:25	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 02:25	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 02:25	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 02:25	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 02:25	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 02:25	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 02:25	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 02:25	1
1,1-Dichloropropane	ND		0.50		ug/L			12/02/16 02:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 02:25	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 02:25	1
Dibromomethane	ND		0.50		ug/L			12/02/16 02:25	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 02:25	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 02:25	1
1,2-Dichloroethane	1.1		0.50		ug/L			12/02/16 02:25	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 02:25	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 02:25	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 02:25	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 02:25	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 02:25	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 02:25	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 02:25	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 02:25	1
2-Hexanone	ND		50		ug/L			12/02/16 02:25	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 02:25	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 02:25	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 02:25	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 02:25	1
Naphthalene	ND		1.0		ug/L			12/02/16 02:25	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 02:25	1
Styrene	ND		0.50		ug/L			12/02/16 02:25	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 02:25	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-13

Lab Sample ID: 720-76130-4

Date Collected: 12/01/16 11:25

Matrix: Water

Date Received: 12/01/16 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			12/02/16 02:25	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 02:25	1
Toluene	ND		0.50		ug/L			12/02/16 02:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 02:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 02:25	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 02:25	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 02:25	1
Trichloroethene	ND		0.50		ug/L			12/02/16 02:25	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 02:25	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 02:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 02:25	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 02:25	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 02:25	1
Vinyl acetate	ND		10		ug/L			12/02/16 02:25	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 02:25	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 02:25	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 02:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		67 - 130		12/02/16 02:25	1
1,2-Dichloroethane-d4 (Surr)	89		72 - 130		12/02/16 02:25	1
Toluene-d8 (Surr)	93		70 - 130		12/02/16 02:25	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			12/01/16 21:17	1
Nitrate as NO3	240		100		mg/L			12/02/16 17:47	100

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6.0		1.0		mg/L		12/06/16 09:46	12/06/16 19:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	6.0		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	ND	HF	0.10		mg/L			12/02/16 13:58	1
Ammonia	ND		0.20		mg/L		12/05/16 16:45	12/05/16 18:59	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-10
Date Collected: 12/01/16 12:45
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-5
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			12/02/16 02:54	1
Acetone	ND		50		ug/L			12/02/16 02:54	1
Benzene	ND		0.50		ug/L			12/02/16 02:54	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 02:54	1
Bromobenzene	ND		1.0		ug/L			12/02/16 02:54	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 02:54	1
Bromoform	ND		1.0		ug/L			12/02/16 02:54	1
Bromomethane	ND		1.0		ug/L			12/02/16 02:54	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 02:54	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 02:54	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 02:54	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 02:54	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 02:54	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 02:54	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 02:54	1
Chloroethane	ND		1.0		ug/L			12/02/16 02:54	1
Chloroform	ND		1.0		ug/L			12/02/16 02:54	1
Chloromethane	ND		1.0		ug/L			12/02/16 02:54	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 02:54	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 02:54	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 02:54	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 02:54	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 02:54	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 02:54	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 02:54	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 02:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 02:54	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 02:54	1
Dibromomethane	ND		0.50		ug/L			12/02/16 02:54	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 02:54	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 02:54	1
1,2-Dichloroethane	ND		0.50		ug/L			12/02/16 02:54	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 02:54	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 02:54	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 02:54	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 02:54	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 02:54	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 02:54	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 02:54	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 02:54	1
2-Hexanone	ND		50		ug/L			12/02/16 02:54	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 02:54	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 02:54	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 02:54	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 02:54	1
Naphthalene	ND		1.0		ug/L			12/02/16 02:54	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 02:54	1
Styrene	ND		0.50		ug/L			12/02/16 02:54	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 02:54	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-10

Lab Sample ID: 720-76130-5

Date Collected: 12/01/16 12:45

Matrix: Water

Date Received: 12/01/16 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			12/02/16 02:54	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 02:54	1
Toluene	ND		0.50		ug/L			12/02/16 02:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 02:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 02:54	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 02:54	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 02:54	1
Trichloroethene	ND		0.50		ug/L			12/02/16 02:54	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 02:54	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 02:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 02:54	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 02:54	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 02:54	1
Vinyl acetate	ND		10		ug/L			12/02/16 02:54	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 02:54	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 02:54	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 02:54	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		67 - 130		12/02/16 02:54	1
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		12/02/16 02:54	1
Toluene-d8 (Surr)	93		70 - 130		12/02/16 02:54	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			12/01/16 21:51	1
Nitrate as NO3	190		100		mg/L			12/02/16 18:04	100

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		12/06/16 09:46	12/06/16 19:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	15		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	ND	HF	0.10		mg/L			12/02/16 13:58	1
Ammonia	ND		0.20		mg/L		12/05/16 16:45	12/05/16 19:02	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-16

Date Collected: 12/01/16 14:10

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-6

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	1.2		0.50		ug/L			12/02/16 03:23	1
Acetone	ND		50		ug/L			12/02/16 03:23	1
Benzene	ND		0.50		ug/L			12/02/16 03:23	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 03:23	1
Bromobenzene	ND		1.0		ug/L			12/02/16 03:23	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 03:23	1
Bromoform	ND		1.0		ug/L			12/02/16 03:23	1
Bromomethane	ND		1.0		ug/L			12/02/16 03:23	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 03:23	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 03:23	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 03:23	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 03:23	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 03:23	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 03:23	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 03:23	1
Chloroethane	ND		1.0		ug/L			12/02/16 03:23	1
Chloroform	ND		1.0		ug/L			12/02/16 03:23	1
Chloromethane	ND		1.0		ug/L			12/02/16 03:23	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 03:23	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 03:23	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 03:23	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 03:23	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 03:23	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 03:23	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 03:23	1
1,1-Dichloropropane	ND		0.50		ug/L			12/02/16 03:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 03:23	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 03:23	1
Dibromomethane	ND		0.50		ug/L			12/02/16 03:23	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 03:23	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 03:23	1
1,2-Dichloroethane	1.1		0.50		ug/L			12/02/16 03:23	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 03:23	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 03:23	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 03:23	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 03:23	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 03:23	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 03:23	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 03:23	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 03:23	1
2-Hexanone	ND		50		ug/L			12/02/16 03:23	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 03:23	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 03:23	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 03:23	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 03:23	1
Naphthalene	ND		1.0		ug/L			12/02/16 03:23	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 03:23	1
Styrene	ND		0.50		ug/L			12/02/16 03:23	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 03:23	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-16

Lab Sample ID: 720-76130-6

Date Collected: 12/01/16 14:10

Matrix: Water

Date Received: 12/01/16 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			12/02/16 03:23	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 03:23	1
Toluene	ND		0.50		ug/L			12/02/16 03:23	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 03:23	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 03:23	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 03:23	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 03:23	1
Trichloroethene	ND		0.50		ug/L			12/02/16 03:23	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 03:23	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 03:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 03:23	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 03:23	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 03:23	1
Vinyl acetate	ND		10		ug/L			12/02/16 03:23	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 03:23	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 03:23	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 03:23	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		67 - 130		12/02/16 03:23	1
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		12/02/16 03:23	1
Toluene-d8 (Surr)	93		70 - 130		12/02/16 03:23	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		100		mg/L			12/02/16 18:21	100
Nitrate as NO3	130		10		mg/L			12/01/16 22:44	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		12/06/16 09:46	12/06/16 19:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	ND	HF	0.10		mg/L			12/02/16 13:58	1
Ammonia	ND		0.20		mg/L		12/05/16 16:45	12/05/16 19:05	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-15
Date Collected: 12/01/16 14:52
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-7
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	4.7		0.50		ug/L			12/02/16 03:52	1
Acetone	ND		50		ug/L			12/02/16 03:52	1
Benzene	ND		0.50		ug/L			12/02/16 03:52	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 03:52	1
Bromobenzene	ND		1.0		ug/L			12/02/16 03:52	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 03:52	1
Bromoform	ND		1.0		ug/L			12/02/16 03:52	1
Bromomethane	ND		1.0		ug/L			12/02/16 03:52	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 03:52	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 03:52	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 03:52	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 03:52	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 03:52	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 03:52	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 03:52	1
Chloroethane	ND		1.0		ug/L			12/02/16 03:52	1
Chloroform	ND		1.0		ug/L			12/02/16 03:52	1
Chloromethane	ND		1.0		ug/L			12/02/16 03:52	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 03:52	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 03:52	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 03:52	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 03:52	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 03:52	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 03:52	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 03:52	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 03:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 03:52	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 03:52	1
Dibromomethane	ND		0.50		ug/L			12/02/16 03:52	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 03:52	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 03:52	1
1,2-Dichloroethane	0.94		0.50		ug/L			12/02/16 03:52	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 03:52	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 03:52	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 03:52	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 03:52	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 03:52	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 03:52	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 03:52	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 03:52	1
2-Hexanone	ND		50		ug/L			12/02/16 03:52	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 03:52	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 03:52	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 03:52	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 03:52	1
Naphthalene	ND		1.0		ug/L			12/02/16 03:52	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 03:52	1
Styrene	ND		0.50		ug/L			12/02/16 03:52	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 03:52	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-15

Date Collected: 12/01/16 14:52

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-7

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			12/02/16 03:52	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 03:52	1
Toluene	ND		0.50		ug/L			12/02/16 03:52	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 03:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 03:52	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 03:52	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 03:52	1
Trichloroethene	ND		0.50		ug/L			12/02/16 03:52	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 03:52	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 03:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 03:52	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 03:52	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 03:52	1
Vinyl acetate	ND		10		ug/L			12/02/16 03:52	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 03:52	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 03:52	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 03:52	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		67 - 130		12/02/16 03:52	1
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		12/02/16 03:52	1
Toluene-d8 (Surr)	91		70 - 130		12/02/16 03:52	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			12/01/16 23:01	1
Nitrate as NO3	38		10		mg/L			12/01/16 23:18	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	24		1.0		mg/L		12/06/16 09:46	12/06/16 19:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	24		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	ND	HF	0.10		mg/L			12/02/16 13:58	1
Ammonia	ND		0.20		mg/L		12/05/16 16:45	12/05/16 19:08	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-9
Date Collected: 12/01/16 13:22
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-8
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			12/02/16 04:21	1
Acetone	ND		50		ug/L			12/02/16 04:21	1
Benzene	ND		0.50		ug/L			12/02/16 04:21	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 04:21	1
Bromobenzene	ND		1.0		ug/L			12/02/16 04:21	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 04:21	1
Bromoform	ND		1.0		ug/L			12/02/16 04:21	1
Bromomethane	ND		1.0		ug/L			12/02/16 04:21	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 04:21	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 04:21	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 04:21	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 04:21	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 04:21	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 04:21	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 04:21	1
Chloroethane	ND		1.0		ug/L			12/02/16 04:21	1
Chloroform	ND		1.0		ug/L			12/02/16 04:21	1
Chloromethane	ND		1.0		ug/L			12/02/16 04:21	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 04:21	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 04:21	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 04:21	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 04:21	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 04:21	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 04:21	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 04:21	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 04:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 04:21	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 04:21	1
Dibromomethane	ND		0.50		ug/L			12/02/16 04:21	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 04:21	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 04:21	1
1,2-Dichloroethane	ND		0.50		ug/L			12/02/16 04:21	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 04:21	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 04:21	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 04:21	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 04:21	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 04:21	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 04:21	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 04:21	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 04:21	1
2-Hexanone	ND		50		ug/L			12/02/16 04:21	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 04:21	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 04:21	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 04:21	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 04:21	1
Naphthalene	ND		1.0		ug/L			12/02/16 04:21	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 04:21	1
Styrene	ND		0.50		ug/L			12/02/16 04:21	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 04:21	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-9

Lab Sample ID: 720-76130-8

Date Collected: 12/01/16 13:22

Matrix: Water

Date Received: 12/01/16 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			12/02/16 04:21	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 04:21	1
Toluene	ND		0.50		ug/L			12/02/16 04:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 04:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 04:21	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 04:21	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 04:21	1
Trichloroethene	ND		0.50		ug/L			12/02/16 04:21	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 04:21	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 04:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 04:21	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 04:21	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 04:21	1
Vinyl acetate	ND		10		ug/L			12/02/16 04:21	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 04:21	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 04:21	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 04:21	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		67 - 130		12/02/16 04:21	1
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		12/02/16 04:21	1
Toluene-d8 (Surr)	92		70 - 130		12/02/16 04:21	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		100		mg/L			12/02/16 18:38	100
Nitrate as NO3	180		10		mg/L			12/02/16 00:26	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	25		1.0		mg/L		12/06/16 09:46	12/06/16 19:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	25		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	ND	HF	0.10		mg/L			12/02/16 13:58	1
Ammonia	ND		0.20		mg/L		12/05/16 16:45	12/05/16 19:10	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: GAC
Date Collected: 12/01/16 15:21
Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-9
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			12/02/16 04:50	1
Acetone	ND		50		ug/L			12/02/16 04:50	1
Benzene	ND		0.50		ug/L			12/02/16 04:50	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 04:50	1
Bromobenzene	ND		1.0		ug/L			12/02/16 04:50	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 04:50	1
Bromoform	ND		1.0		ug/L			12/02/16 04:50	1
Bromomethane	ND		1.0		ug/L			12/02/16 04:50	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 04:50	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 04:50	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 04:50	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 04:50	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 04:50	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 04:50	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 04:50	1
Chloroethane	ND		1.0		ug/L			12/02/16 04:50	1
Chloroform	ND		1.0		ug/L			12/02/16 04:50	1
Chloromethane	ND		1.0		ug/L			12/02/16 04:50	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 04:50	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 04:50	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 04:50	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 04:50	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 04:50	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 04:50	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 04:50	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 04:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 04:50	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 04:50	1
Dibromomethane	ND		0.50		ug/L			12/02/16 04:50	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 04:50	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 04:50	1
1,2-Dichloroethane	ND		0.50		ug/L			12/02/16 04:50	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 04:50	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 04:50	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 04:50	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 04:50	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 04:50	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/02/16 04:50	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 04:50	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 04:50	1
2-Hexanone	ND		50		ug/L			12/02/16 04:50	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 04:50	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 04:50	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 04:50	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 04:50	1
Naphthalene	ND		1.0		ug/L			12/02/16 04:50	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 04:50	1
Styrene	ND		0.50		ug/L			12/02/16 04:50	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 04:50	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: GAC

Lab Sample ID: 720-76130-9

Date Collected: 12/01/16 15:21

Matrix: Water

Date Received: 12/01/16 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			12/02/16 04:50	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 04:50	1
Toluene	ND		0.50		ug/L			12/02/16 04:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 04:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 04:50	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 04:50	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 04:50	1
Trichloroethene	ND		0.50		ug/L			12/02/16 04:50	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 04:50	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 04:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 04:50	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 04:50	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 04:50	1
Vinyl acetate	ND		10		ug/L			12/02/16 04:50	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 04:50	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 04:50	1
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 04:50	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		67 - 130		12/02/16 04:50	1
1,2-Dichloroethane-d4 (Surr)	87		72 - 130		12/02/16 04:50	1
Toluene-d8 (Surr)	92		70 - 130		12/02/16 04:50	1

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: MB 720-214058/5

Matrix: Water

Analysis Batch: 214058

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			12/01/16 19:38	1
Acetone	ND		50		ug/L			12/01/16 19:38	1
Benzene	ND		0.50		ug/L			12/01/16 19:38	1
Dichlorobromomethane	ND		0.50		ug/L			12/01/16 19:38	1
Bromobenzene	ND		1.0		ug/L			12/01/16 19:38	1
Chlorobromomethane	ND		1.0		ug/L			12/01/16 19:38	1
Bromoform	ND		1.0		ug/L			12/01/16 19:38	1
Bromomethane	ND		1.0		ug/L			12/01/16 19:38	1
2-Butanone (MEK)	ND		50		ug/L			12/01/16 19:38	1
n-Butylbenzene	ND		1.0		ug/L			12/01/16 19:38	1
sec-Butylbenzene	ND		1.0		ug/L			12/01/16 19:38	1
tert-Butylbenzene	ND		1.0		ug/L			12/01/16 19:38	1
Carbon disulfide	ND		5.0		ug/L			12/01/16 19:38	1
Carbon tetrachloride	ND		0.50		ug/L			12/01/16 19:38	1
Chlorobenzene	ND		0.50		ug/L			12/01/16 19:38	1
Chloroethane	ND		1.0		ug/L			12/01/16 19:38	1
Chloroform	ND		1.0		ug/L			12/01/16 19:38	1
Chloromethane	ND		1.0		ug/L			12/01/16 19:38	1
2-Chlorotoluene	ND		0.50		ug/L			12/01/16 19:38	1
4-Chlorotoluene	ND		0.50		ug/L			12/01/16 19:38	1
Chlorodibromomethane	ND		0.50		ug/L			12/01/16 19:38	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/01/16 19:38	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/01/16 19:38	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/01/16 19:38	1
1,3-Dichloropropane	ND		1.0		ug/L			12/01/16 19:38	1
1,1-Dichloropropene	ND		0.50		ug/L			12/01/16 19:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/01/16 19:38	1
Ethylene Dibromide	ND		0.50		ug/L			12/01/16 19:38	1
Dibromomethane	ND		0.50		ug/L			12/01/16 19:38	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/01/16 19:38	1
1,1-Dichloroethane	ND		0.50		ug/L			12/01/16 19:38	1
1,2-Dichloroethane	ND		0.50		ug/L			12/01/16 19:38	1
1,1-Dichloroethene	ND		0.50		ug/L			12/01/16 19:38	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/01/16 19:38	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/01/16 19:38	1
1,2-Dichloropropane	ND		0.50		ug/L			12/01/16 19:38	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/01/16 19:38	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/01/16 19:38	1
Ethylbenzene	ND		0.50		ug/L			12/01/16 19:38	1
Hexachlorobutadiene	ND		1.0		ug/L			12/01/16 19:38	1
2-Hexanone	ND		50		ug/L			12/01/16 19:38	1
Isopropylbenzene	ND		0.50		ug/L			12/01/16 19:38	1
4-Isopropyltoluene	ND		1.0		ug/L			12/01/16 19:38	1
Methylene Chloride	ND		5.0		ug/L			12/01/16 19:38	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/01/16 19:38	1
Naphthalene	ND		1.0		ug/L			12/01/16 19:38	1
N-Propylbenzene	ND		1.0		ug/L			12/01/16 19:38	1
Styrene	ND		0.50		ug/L			12/01/16 19:38	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: MB 720-214058/5
Matrix: Water
Analysis Batch: 214058

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			12/01/16 19:38	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/01/16 19:38	1
Tetrachloroethene	ND		0.50		ug/L			12/01/16 19:38	1
Toluene	ND		0.50		ug/L			12/01/16 19:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/01/16 19:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/01/16 19:38	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/01/16 19:38	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/01/16 19:38	1
Trichloroethene	ND		0.50		ug/L			12/01/16 19:38	1
Trichlorofluoromethane	ND		1.0		ug/L			12/01/16 19:38	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/01/16 19:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/01/16 19:38	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/01/16 19:38	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/01/16 19:38	1
Vinyl acetate	ND		10		ug/L			12/01/16 19:38	1
Vinyl chloride	ND		0.50		ug/L			12/01/16 19:38	1
Xylenes, Total	ND		1.0		ug/L			12/01/16 19:38	1
2,2-Dichloropropane	ND		0.50		ug/L			12/01/16 19:38	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/01/16 19:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		67 - 130		12/01/16 19:38	1
1,2-Dichloroethane-d4 (Surr)	84		72 - 130		12/01/16 19:38	1
Toluene-d8 (Surr)	92		70 - 130		12/01/16 19:38	1

Lab Sample ID: LCS 720-214058/6
Matrix: Water
Analysis Batch: 214058

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	21.1		ug/L		84	62 - 130
Acetone	125	118		ug/L		94	26 - 180
Benzene	25.0	23.3		ug/L		93	79 - 130
Dichlorobromomethane	25.0	22.8		ug/L		91	70 - 130
Bromobenzene	25.0	22.7		ug/L		91	70 - 130
Chlorobromomethane	25.0	23.9		ug/L		96	70 - 130
Bromoform	25.0	20.9		ug/L		84	68 - 136
Bromomethane	25.0	26.9		ug/L		108	43 - 151
2-Butanone (MEK)	125	106		ug/L		85	54 - 153
n-Butylbenzene	25.0	24.1		ug/L		96	70 - 142
sec-Butylbenzene	25.0	24.6		ug/L		98	70 - 134
tert-Butylbenzene	25.0	24.9		ug/L		100	70 - 135
Carbon disulfide	25.0	21.6		ug/L		87	68 - 146
Carbon tetrachloride	25.0	23.5		ug/L		94	70 - 146
Chlorobenzene	25.0	25.0		ug/L		100	70 - 130
Chloroethane	25.0	28.7		ug/L		115	62 - 138
Chloroform	25.0	23.3		ug/L		93	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: LCS 720-214058/6

Matrix: Water

Analysis Batch: 214058

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	29.5		ug/L		118	52 - 175
2-Chlorotoluene	25.0	23.2		ug/L		93	70 - 130
4-Chlorotoluene	25.0	23.0		ug/L		92	70 - 130
Chlorodibromomethane	25.0	21.4		ug/L		86	70 - 145
1,2-Dichlorobenzene	25.0	23.6		ug/L		95	70 - 130
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,3-Dichloropropane	25.0	23.1		ug/L		93	70 - 130
1,1-Dichloropropene	25.0	23.8		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	18.9		ug/L		76	70 - 136
Ethylene Dibromide	25.0	22.4		ug/L		90	70 - 130
Dibromomethane	25.0	22.1		ug/L		88	70 - 130
Dichlorodifluoromethane	25.0	31.3		ug/L		125	32 - 158
1,1-Dichloroethane	25.0	23.3		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	22.0		ug/L		88	61 - 132
1,1-Dichloroethene	25.0	22.3		ug/L		89	64 - 128
cis-1,2-Dichloroethene	25.0	23.6		ug/L		94	70 - 130
trans-1,2-Dichloroethene	25.0	23.6		ug/L		94	68 - 130
1,2-Dichloropropane	25.0	25.4		ug/L		102	70 - 130
cis-1,3-Dichloropropene	25.0	23.7		ug/L		95	70 - 130
trans-1,3-Dichloropropene	25.0	21.1		ug/L		84	70 - 140
Ethylbenzene	25.0	24.4		ug/L		98	80 - 120
Hexachlorobutadiene	25.0	23.6		ug/L		94	70 - 130
2-Hexanone	125	91.6		ug/L		73	60 - 164
Isopropylbenzene	25.0	25.7		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	24.8		ug/L		99	70 - 130
Methylene Chloride	25.0	23.5		ug/L		94	70 - 147
4-Methyl-2-pentanone (MIBK)	125	95.1		ug/L		76	50 - 155
Naphthalene	25.0	21.2		ug/L		85	50 - 130
N-Propylbenzene	25.0	23.8		ug/L		95	70 - 130
Styrene	25.0	24.0		ug/L		96	70 - 130
1,1,1,2-Tetrachloroethane	25.0	24.4		ug/L		97	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	22.1		ug/L		89	70 - 130
Tetrachloroethene	25.0	24.6		ug/L		98	70 - 130
Toluene	25.0	24.3		ug/L		97	78 - 120
1,2,3-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130
1,2,4-Trichlorobenzene	25.0	22.0		ug/L		88	70 - 130
1,1,1-Trichloroethane	25.0	22.4		ug/L		90	70 - 130
1,1,2-Trichloroethane	25.0	22.4		ug/L		90	70 - 130
Trichloroethene	25.0	25.1		ug/L		101	70 - 130
Trichlorofluoromethane	25.0	23.5		ug/L		94	66 - 132
1,2,3-Trichloropropane	25.0	21.5		ug/L		86	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.1		ug/L		93	42 - 162
1,2,4-Trimethylbenzene	25.0	23.6		ug/L		95	70 - 132
1,3,5-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 130
Vinyl acetate	25.0	19.2		ug/L		77	43 - 163
Vinyl chloride	25.0	31.2		ug/L		125	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: LCS 720-214058/6
Matrix: Water
Analysis Batch: 214058

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	24.0		ug/L		96	70 - 142
o-Xylene	25.0	24.0		ug/L		96	70 - 130
2,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	81		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCS 720-214058/8
Matrix: Water
Analysis Batch: 214058

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	464		ug/L		93	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	92		67 - 130
1,2-Dichloroethane-d4 (Surr)	84		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 720-214058/7
Matrix: Water
Analysis Batch: 214058

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	21.3		ug/L		85	62 - 130	1	20
Acetone	125	122		ug/L		98	26 - 180	4	30
Benzene	25.0	23.4		ug/L		94	79 - 130	0	20
Dichlorobromomethane	25.0	22.7		ug/L		91	70 - 130	0	20
Bromobenzene	25.0	23.5		ug/L		94	70 - 130	3	20
Chlorobromomethane	25.0	23.7		ug/L		95	70 - 130	1	20
Bromoform	25.0	21.4		ug/L		86	68 - 136	2	20
Bromomethane	25.0	26.6		ug/L		106	43 - 151	1	20
2-Butanone (MEK)	125	110		ug/L		88	54 - 153	3	20
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 142	2	20
sec-Butylbenzene	25.0	25.4		ug/L		102	70 - 134	3	20
tert-Butylbenzene	25.0	25.8		ug/L		103	70 - 135	4	20
Carbon disulfide	25.0	22.0		ug/L		88	68 - 146	2	20
Carbon tetrachloride	25.0	23.8		ug/L		95	70 - 146	1	20
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130	1	20
Chloroethane	25.0	28.7		ug/L		115	62 - 138	0	20
Chloroform	25.0	23.3		ug/L		93	70 - 130	0	20
Chloromethane	25.0	29.6		ug/L		118	52 - 175	0	20
2-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130	3	20
4-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130	3	20
Chlorodibromomethane	25.0	21.7		ug/L		87	70 - 145	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: LCSD 720-214058/7

Matrix: Water

Analysis Batch: 214058

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	24.0		ug/L		96	70 - 130	2	20
1,3-Dichlorobenzene	25.0	24.1		ug/L		97	70 - 130	1	20
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130	0	20
1,3-Dichloropropane	25.0	23.4		ug/L		93	70 - 130	1	20
1,1-Dichloropropene	25.0	23.8		ug/L		95	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	20.1		ug/L		81	70 - 136	6	20
Ethylene Dibromide	25.0	22.7		ug/L		91	70 - 130	1	20
Dibromomethane	25.0	22.4		ug/L		90	70 - 130	2	20
Dichlorodifluoromethane	25.0	31.3		ug/L		125	32 - 158	0	20
1,1-Dichloroethane	25.0	23.4		ug/L		94	70 - 130	1	20
1,2-Dichloroethane	25.0	22.0		ug/L		88	61 - 132	0	20
1,1-Dichloroethene	25.0	22.8		ug/L		91	64 - 128	2	20
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	68 - 130	1	20
1,2-Dichloropropane	25.0	25.4		ug/L		102	70 - 130	0	20
cis-1,3-Dichloropropene	25.0	23.6		ug/L		95	70 - 130	0	20
trans-1,3-Dichloropropene	25.0	21.1		ug/L		84	70 - 140	0	20
Ethylbenzene	25.0	24.5		ug/L		98	80 - 120	0	20
Hexachlorobutadiene	25.0	23.6		ug/L		94	70 - 130	0	20
2-Hexanone	125	94.7		ug/L		76	60 - 164	3	20
Isopropylbenzene	25.0	25.8		ug/L		103	70 - 130	0	20
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 130	2	20
Methylene Chloride	25.0	23.6		ug/L		95	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	97.5		ug/L		78	50 - 155	2	20
Naphthalene	25.0	22.6		ug/L		90	50 - 130	6	20
N-Propylbenzene	25.0	24.6		ug/L		99	70 - 130	3	20
Styrene	25.0	24.1		ug/L		96	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	24.7		ug/L		99	70 - 130	1	20
1,1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		94	70 - 130	6	20
Tetrachloroethene	25.0	24.6		ug/L		98	70 - 130	0	20
Toluene	25.0	24.4		ug/L		98	78 - 120	0	20
1,2,3-Trichlorobenzene	25.0	21.9		ug/L		88	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	22.0		ug/L		88	70 - 130	0	20
1,1,1-Trichloroethane	25.0	22.6		ug/L		90	70 - 130	1	20
1,1,2-Trichloroethane	25.0	22.5		ug/L		90	70 - 130	1	20
Trichloroethene	25.0	25.0		ug/L		100	70 - 130	1	20
Trichlorofluoromethane	25.0	23.3		ug/L		93	66 - 132	1	20
1,2,3-Trichloropropane	25.0	22.7		ug/L		91	70 - 130	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.4		ug/L		93	42 - 162	1	20
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	2	20
Vinyl acetate	25.0	19.8		ug/L		79	43 - 163	3	20
Vinyl chloride	25.0	30.7		ug/L		123	54 - 135	1	20
m-Xylene & p-Xylene	25.0	24.0		ug/L		96	70 - 142	0	20
o-Xylene	25.0	24.3		ug/L		97	70 - 130	1	20
2,2-Dichloropropane	25.0	23.4		ug/L		93	70 - 140	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: LCSD 720-214058/7
Matrix: Water
Analysis Batch: 214058

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

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	83		72 - 130
Toluene-d8 (Surr)	93		70 - 130

Lab Sample ID: LCSD 720-214058/9
Matrix: Water
Analysis Batch: 214058

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	450		ug/L		90	71 - 125	3	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	90		67 - 130
1,2-Dichloroethane-d4 (Surr)	84		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: 720-76130-1 MS
Matrix: Water
Analysis Batch: 214058

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	21.2		ug/L		85	60 - 138
Acetone	ND		125	102		ug/L		81	60 - 140
Benzene	ND		25.0	23.0		ug/L		92	60 - 140
Dichlorobromomethane	ND		25.0	22.5		ug/L		90	60 - 140
Bromobenzene	ND		25.0	22.7		ug/L		91	60 - 140
Chlorobromomethane	ND		25.0	23.4		ug/L		94	60 - 140
Bromoform	ND		25.0	20.7		ug/L		83	56 - 140
Bromomethane	ND		25.0	25.0		ug/L		100	23 - 140
2-Butanone (MEK)	ND		125	99.6		ug/L		80	60 - 140
n-Butylbenzene	ND		25.0	23.5		ug/L		94	60 - 140
sec-Butylbenzene	ND		25.0	24.2		ug/L		97	60 - 140
tert-Butylbenzene	ND		25.0	24.5		ug/L		98	60 - 140
Carbon disulfide	ND		25.0	21.0		ug/L		84	38 - 140
Carbon tetrachloride	ND		25.0	23.0		ug/L		92	60 - 140
Chlorobenzene	ND		25.0	24.7		ug/L		99	60 - 140
Chloroethane	ND		25.0	28.6		ug/L		114	51 - 140
Chloroform	ND		25.0	23.0		ug/L		92	60 - 140
Chloromethane	ND		25.0	27.8		ug/L		111	52 - 140
2-Chlorotoluene	ND		25.0	22.9		ug/L		92	60 - 140
4-Chlorotoluene	ND		25.0	22.9		ug/L		92	60 - 140
Chlorodibromomethane	ND		25.0	21.3		ug/L		85	60 - 140
1,2-Dichlorobenzene	ND		25.0	23.3		ug/L		93	60 - 140
1,3-Dichlorobenzene	ND		25.0	23.8		ug/L		95	60 - 140
1,4-Dichlorobenzene	ND		25.0	23.4		ug/L		94	60 - 140
1,3-Dichloropropane	ND		25.0	22.9		ug/L		92	60 - 140
1,1-Dichloropropene	ND		25.0	23.2		ug/L		93	60 - 140

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: 720-76130-1 MS

Matrix: Water

Analysis Batch: 214058

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	18.6		ug/L		74	60 - 140
Ethylene Dibromide	ND		25.0	21.9		ug/L		87	60 - 140
Dibromomethane	ND		25.0	21.9		ug/L		87	60 - 140
Dichlorodifluoromethane	ND		25.0	30.6		ug/L		123	38 - 140
1,1-Dichloroethane	ND		25.0	22.9		ug/L		92	60 - 140
1,2-Dichloroethane	ND		25.0	22.0		ug/L		87	60 - 140
1,1-Dichloroethene	ND		25.0	21.3		ug/L		85	60 - 140
cis-1,2-Dichloroethene	ND		25.0	23.4		ug/L		93	60 - 140
trans-1,2-Dichloroethene	ND		25.0	23.1		ug/L		92	60 - 140
1,2-Dichloropropane	ND		25.0	25.2		ug/L		101	60 - 140
cis-1,3-Dichloropropene	ND		25.0	23.2		ug/L		93	60 - 140
trans-1,3-Dichloropropene	ND		25.0	20.8		ug/L		83	60 - 140
Ethylbenzene	ND		25.0	24.0		ug/L		96	60 - 140
Hexachlorobutadiene	ND		25.0	22.9		ug/L		92	60 - 140
2-Hexanone	ND		125	86.6		ug/L		69	60 - 140
Isopropylbenzene	ND		25.0	25.2		ug/L		101	60 - 140
4-Isopropyltoluene	ND		25.0	24.3		ug/L		97	60 - 140
Methylene Chloride	ND		25.0	21.6		ug/L		86	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	92.2		ug/L		74	58 - 130
Naphthalene	1.0		25.0	21.8		ug/L		83	56 - 140
N-Propylbenzene	ND		25.0	23.4		ug/L		94	60 - 140
Styrene	ND		25.0	23.5		ug/L		94	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	24.0		ug/L		96	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	21.9		ug/L		88	60 - 140
Tetrachloroethene	ND		25.0	24.0		ug/L		96	60 - 140
Toluene	ND		25.0	24.0		ug/L		96	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	21.0		ug/L		84	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	21.7		ug/L		87	60 - 140
1,1,1-Trichloroethane	ND		25.0	22.4		ug/L		89	60 - 140
1,1,2-Trichloroethane	ND		25.0	22.2		ug/L		89	60 - 140
Trichloroethene	ND		25.0	24.5		ug/L		98	60 - 140
Trichlorofluoromethane	ND		25.0	22.7		ug/L		91	60 - 140
1,2,3-Trichloropropane	ND		25.0	20.9		ug/L		84	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.2		ug/L		89	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	23.3		ug/L		93	60 - 140
1,3,5-Trimethylbenzene	1.6		25.0	25.4		ug/L		95	60 - 140
Vinyl acetate	ND		25.0	19.3		ug/L		77	40 - 140
Vinyl chloride	ND		25.0	29.4		ug/L		117	58 - 140
m-Xylene & p-Xylene	ND		25.0	24.5		ug/L		94	60 - 140
o-Xylene	0.83		25.0	24.6		ug/L		95	60 - 140
2,2-Dichloropropane	ND		25.0	23.2		ug/L		93	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	84		72 - 130
Toluene-d8 (Surr)	95		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: 720-76130-1 MSD

Matrix: Water

Analysis Batch: 214058

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	22.1		ug/L		88	60 - 138	4	20
Acetone	ND		125	109		ug/L		87	60 - 140	7	20
Benzene	ND		25.0	23.2		ug/L		93	60 - 140	1	20
Dichlorobromomethane	ND		25.0	23.0		ug/L		92	60 - 140	2	20
Bromobenzene	ND		25.0	23.4		ug/L		94	60 - 140	3	20
Chlorobromomethane	ND		25.0	23.8		ug/L		95	60 - 140	2	20
Bromoform	ND		25.0	21.4		ug/L		86	56 - 140	4	20
Bromomethane	ND		25.0	25.9		ug/L		104	23 - 140	4	20
2-Butanone (MEK)	ND		125	103		ug/L		83	60 - 140	4	20
n-Butylbenzene	ND		25.0	23.2		ug/L		93	60 - 140	1	20
sec-Butylbenzene	ND		25.0	24.4		ug/L		98	60 - 140	1	20
tert-Butylbenzene	ND		25.0	24.9		ug/L		100	60 - 140	2	20
Carbon disulfide	ND		25.0	21.2		ug/L		85	38 - 140	1	20
Carbon tetrachloride	ND		25.0	22.9		ug/L		92	60 - 140	0	20
Chlorobenzene	ND		25.0	25.0		ug/L		100	60 - 140	1	20
Chloroethane	ND		25.0	29.0		ug/L		116	51 - 140	1	20
Chloroform	ND		25.0	23.3		ug/L		93	60 - 140	1	20
Chloromethane	ND		25.0	27.3		ug/L		109	52 - 140	2	20
2-Chlorotoluene	ND		25.0	23.5		ug/L		94	60 - 140	2	20
4-Chlorotoluene	ND		25.0	23.3		ug/L		93	60 - 140	2	20
Chlorodibromomethane	ND		25.0	22.1		ug/L		88	60 - 140	4	20
1,2-Dichlorobenzene	ND		25.0	23.9		ug/L		96	60 - 140	2	20
1,3-Dichlorobenzene	ND		25.0	23.9		ug/L		96	60 - 140	0	20
1,4-Dichlorobenzene	ND		25.0	23.9		ug/L		96	60 - 140	2	20
1,3-Dichloropropane	ND		25.0	23.2		ug/L		93	60 - 140	1	20
1,1-Dichloropropene	ND		25.0	22.9		ug/L		92	60 - 140	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	19.3		ug/L		77	60 - 140	4	20
Ethylene Dibromide	ND		25.0	22.6		ug/L		90	60 - 140	3	20
Dibromomethane	ND		25.0	22.2		ug/L		89	60 - 140	2	20
Dichlorodifluoromethane	ND		25.0	30.0		ug/L		120	38 - 140	2	20
1,1-Dichloroethane	ND		25.0	23.2		ug/L		93	60 - 140	1	20
1,2-Dichloroethane	ND		25.0	22.3		ug/L		88	60 - 140	1	20
1,1-Dichloroethene	ND		25.0	21.6		ug/L		86	60 - 140	1	20
cis-1,2-Dichloroethene	ND		25.0	23.6		ug/L		94	60 - 140	1	20
trans-1,2-Dichloroethene	ND		25.0	23.1		ug/L		92	60 - 140	0	20
1,2-Dichloropropane	ND		25.0	25.7		ug/L		103	60 - 140	2	20
cis-1,3-Dichloropropene	ND		25.0	23.8		ug/L		95	60 - 140	2	20
trans-1,3-Dichloropropene	ND		25.0	21.4		ug/L		85	60 - 140	3	20
Ethylbenzene	ND		25.0	23.8		ug/L		95	60 - 140	1	20
Hexachlorobutadiene	ND		25.0	22.8		ug/L		91	60 - 140	1	20
2-Hexanone	ND		125	87.9		ug/L		70	60 - 140	1	20
Isopropylbenzene	ND		25.0	25.0		ug/L		100	60 - 140	1	20
4-Isopropyltoluene	ND		25.0	24.2		ug/L		97	60 - 140	1	20
Methylene Chloride	ND		25.0	22.3		ug/L		89	40 - 140	3	20
4-Methyl-2-pentanone (MIBK)	ND		125	93.2		ug/L		75	58 - 130	1	20
Naphthalene	1.0		25.0	22.8		ug/L		87	56 - 140	4	20
N-Propylbenzene	ND		25.0	23.8		ug/L		95	60 - 140	2	20
Styrene	ND		25.0	23.8		ug/L		95	60 - 140	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: 720-76130-1 MSD
Matrix: Water
Analysis Batch: 214058

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	24.7		ug/L		99	60 - 140	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	22.8		ug/L		91	60 - 140	4	20
Tetrachloroethene	ND		25.0	23.7		ug/L		95	60 - 140	1	20
Toluene	ND		25.0	24.1		ug/L		96	60 - 140	1	20
1,2,3-Trichlorobenzene	ND		25.0	21.4		ug/L		85	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		25.0	21.6		ug/L		87	60 - 140	0	20
1,1,1-Trichloroethane	ND		25.0	22.5		ug/L		90	60 - 140	1	20
1,1,2-Trichloroethane	ND		25.0	22.7		ug/L		91	60 - 140	2	20
Trichloroethene	ND		25.0	24.5		ug/L		98	60 - 140	0	20
Trichlorofluoromethane	ND		25.0	23.0		ug/L		92	60 - 140	1	20
1,2,3-Trichloropropane	ND		25.0	22.0		ug/L		88	60 - 140	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.5		ug/L		90	60 - 140	1	20
1,2,4-Trimethylbenzene	ND		25.0	23.5		ug/L		94	60 - 140	1	20
1,3,5-Trimethylbenzene	1.6		25.0	25.7		ug/L		96	60 - 140	1	20
Vinyl acetate	ND		25.0	19.8		ug/L		79	40 - 140	3	20
Vinyl chloride	ND		25.0	29.3		ug/L		117	58 - 140	0	20
m-Xylene & p-Xylene	ND		25.0	24.4		ug/L		94	60 - 140	1	20
o-Xylene	0.83		25.0	24.8		ug/L		96	60 - 140	1	20
2,2-Dichloropropane	ND		25.0	22.8		ug/L		91	60 - 140	2	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	86		72 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: MB 720-214088/4
Matrix: Water
Analysis Batch: 214088

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			12/02/16 08:37	1
Acetone	ND		50		ug/L			12/02/16 08:37	1
Benzene	ND		0.50		ug/L			12/02/16 08:37	1
Dichlorobromomethane	ND		0.50		ug/L			12/02/16 08:37	1
Bromobenzene	ND		1.0		ug/L			12/02/16 08:37	1
Chlorobromomethane	ND		1.0		ug/L			12/02/16 08:37	1
Bromoform	ND		1.0		ug/L			12/02/16 08:37	1
Bromomethane	ND		1.0		ug/L			12/02/16 08:37	1
2-Butanone (MEK)	ND		50		ug/L			12/02/16 08:37	1
n-Butylbenzene	ND		1.0		ug/L			12/02/16 08:37	1
sec-Butylbenzene	ND		1.0		ug/L			12/02/16 08:37	1
tert-Butylbenzene	ND		1.0		ug/L			12/02/16 08:37	1
Carbon disulfide	ND		5.0		ug/L			12/02/16 08:37	1
Carbon tetrachloride	ND		0.50		ug/L			12/02/16 08:37	1
Chlorobenzene	ND		0.50		ug/L			12/02/16 08:37	1
Chloroethane	ND		1.0		ug/L			12/02/16 08:37	1
Chloroform	ND		1.0		ug/L			12/02/16 08:37	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: MB 720-214088/4
Matrix: Water
Analysis Batch: 214088

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0		ug/L			12/02/16 08:37	1
2-Chlorotoluene	ND		0.50		ug/L			12/02/16 08:37	1
4-Chlorotoluene	ND		0.50		ug/L			12/02/16 08:37	1
Chlorodibromomethane	ND		0.50		ug/L			12/02/16 08:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/02/16 08:37	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/02/16 08:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/02/16 08:37	1
1,3-Dichloropropane	ND		1.0		ug/L			12/02/16 08:37	1
1,1-Dichloropropene	ND		0.50		ug/L			12/02/16 08:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/02/16 08:37	1
Ethylene Dibromide	ND		0.50		ug/L			12/02/16 08:37	1
Dibromomethane	ND		0.50		ug/L			12/02/16 08:37	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/02/16 08:37	1
1,1-Dichloroethane	ND		0.50		ug/L			12/02/16 08:37	1
1,2-Dichloroethane	ND		0.50		ug/L			12/02/16 08:37	1
1,1-Dichloroethene	ND		0.50		ug/L			12/02/16 08:37	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 08:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/02/16 08:37	1
1,2-Dichloropropane	ND		0.50		ug/L			12/02/16 08:37	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			12/02/16 08:37	1
trans-1,3-Dichloropropane	ND		0.50		ug/L			12/02/16 08:37	1
Ethylbenzene	ND		0.50		ug/L			12/02/16 08:37	1
Hexachlorobutadiene	ND		1.0		ug/L			12/02/16 08:37	1
2-Hexanone	ND		50		ug/L			12/02/16 08:37	1
Isopropylbenzene	ND		0.50		ug/L			12/02/16 08:37	1
4-Isopropyltoluene	ND		1.0		ug/L			12/02/16 08:37	1
Methylene Chloride	ND		5.0		ug/L			12/02/16 08:37	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/02/16 08:37	1
Naphthalene	ND		1.0		ug/L			12/02/16 08:37	1
N-Propylbenzene	ND		1.0		ug/L			12/02/16 08:37	1
Styrene	ND		0.50		ug/L			12/02/16 08:37	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 08:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/02/16 08:37	1
Tetrachloroethene	ND		0.50		ug/L			12/02/16 08:37	1
Toluene	ND		0.50		ug/L			12/02/16 08:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/02/16 08:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/02/16 08:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/02/16 08:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/02/16 08:37	1
Trichloroethene	ND		0.50		ug/L			12/02/16 08:37	1
Trichlorofluoromethane	ND		1.0		ug/L			12/02/16 08:37	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/02/16 08:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/02/16 08:37	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/02/16 08:37	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/02/16 08:37	1
Vinyl acetate	ND		10		ug/L			12/02/16 08:37	1
Vinyl chloride	ND		0.50		ug/L			12/02/16 08:37	1
Xylenes, Total	ND		1.0		ug/L			12/02/16 08:37	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: MB 720-214088/4
Matrix: Water
Analysis Batch: 214088

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		0.50		ug/L			12/02/16 08:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/02/16 08:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		67 - 130		12/02/16 08:37	1
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		12/02/16 08:37	1
Toluene-d8 (Surr)	92		70 - 130		12/02/16 08:37	1

Lab Sample ID: LCS 720-214088/5
Matrix: Water
Analysis Batch: 214088

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	20.4		ug/L		82	62 - 130
Acetone	125	116		ug/L		92	26 - 180
Benzene	25.0	22.6		ug/L		90	79 - 130
Dichlorobromomethane	25.0	22.1		ug/L		88	70 - 130
Bromobenzene	25.0	21.6		ug/L		87	70 - 130
Chlorobromomethane	25.0	22.8		ug/L		91	70 - 130
Bromoform	25.0	20.3		ug/L		81	68 - 136
Bromomethane	25.0	25.1		ug/L		100	43 - 151
2-Butanone (MEK)	125	107		ug/L		86	54 - 153
n-Butylbenzene	25.0	23.5		ug/L		94	70 - 142
sec-Butylbenzene	25.0	23.5		ug/L		94	70 - 134
tert-Butylbenzene	25.0	23.6		ug/L		94	70 - 135
Carbon disulfide	25.0	20.4		ug/L		82	68 - 146
Carbon tetrachloride	25.0	22.8		ug/L		91	70 - 146
Chlorobenzene	25.0	24.2		ug/L		97	70 - 130
Chloroethane	25.0	27.7		ug/L		111	62 - 138
Chloroform	25.0	22.5		ug/L		90	70 - 130
Chloromethane	25.0	28.7		ug/L		115	52 - 175
2-Chlorotoluene	25.0	22.2		ug/L		89	70 - 130
4-Chlorotoluene	25.0	22.2		ug/L		89	70 - 130
Chlorodibromomethane	25.0	20.9		ug/L		83	70 - 145
1,2-Dichlorobenzene	25.0	22.5		ug/L		90	70 - 130
1,3-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,4-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,3-Dichloropropane	25.0	22.4		ug/L		89	70 - 130
1,1-Dichloropropene	25.0	23.2		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	18.4		ug/L		73	70 - 136
Ethylene Dibromide	25.0	21.6		ug/L		87	70 - 130
Dibromomethane	25.0	21.6		ug/L		87	70 - 130
Dichlorodifluoromethane	25.0	30.7		ug/L		123	32 - 158
1,1-Dichloroethane	25.0	22.5		ug/L		90	70 - 130
1,2-Dichloroethane	25.0	21.3		ug/L		85	61 - 132
1,1-Dichloroethene	25.0	21.1		ug/L		84	64 - 128
cis-1,2-Dichloroethene	25.0	22.9		ug/L		92	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: LCS 720-214088/5
Matrix: Water
Analysis Batch: 214088

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	25.0	22.8		ug/L		91	68 - 130
1,2-Dichloropropane	25.0	24.7		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	23.0		ug/L		92	70 - 130
trans-1,3-Dichloropropene	25.0	20.7		ug/L		83	70 - 140
Ethylbenzene	25.0	23.5		ug/L		94	80 - 120
Hexachlorobutadiene	25.0	22.3		ug/L		89	70 - 130
2-Hexanone	125	92.9		ug/L		74	60 - 164
Isopropylbenzene	25.0	24.5		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	23.8		ug/L		95	70 - 130
Methylene Chloride	25.0	21.7		ug/L		87	70 - 147
4-Methyl-2-pentanone (MIBK)	125	97.0		ug/L		78	50 - 155
Naphthalene	25.0	20.5		ug/L		82	50 - 130
N-Propylbenzene	25.0	23.0		ug/L		92	70 - 130
Styrene	25.0	22.9		ug/L		92	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.2		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.6		ug/L		86	70 - 130
Tetrachloroethene	25.0	24.1		ug/L		97	70 - 130
Toluene	25.0	23.4		ug/L		93	78 - 120
1,2,3-Trichlorobenzene	25.0	20.7		ug/L		83	70 - 130
1,2,4-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130
1,1,1-Trichloroethane	25.0	21.6		ug/L		87	70 - 130
1,1,2-Trichloroethane	25.0	21.5		ug/L		86	70 - 130
Trichloroethene	25.0	24.3		ug/L		97	70 - 130
Trichlorofluoromethane	25.0	22.4		ug/L		90	66 - 132
1,2,3-Trichloropropane	25.0	20.7		ug/L		83	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.8		ug/L		87	42 - 162
1,2,4-Trimethylbenzene	25.0	22.6		ug/L		91	70 - 132
1,3,5-Trimethylbenzene	25.0	22.9		ug/L		92	70 - 130
Vinyl acetate	25.0	19.8		ug/L		79	43 - 163
Vinyl chloride	25.0	29.8		ug/L		119	54 - 135
m-Xylene & p-Xylene	25.0	23.1		ug/L		92	70 - 142
o-Xylene	25.0	23.0		ug/L		92	70 - 130
2,2-Dichloropropane	25.0	23.4		ug/L		94	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	92		67 - 130
1,2-Dichloroethane-d4 (Surr)	83		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCS 720-214088/7
Matrix: Water
Analysis Batch: 214088

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	442		ug/L		88	71 - 125

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: LCS 720-214088/7
Matrix: Water
Analysis Batch: 214088

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

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	87		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 720-214088/6
Matrix: Water
Analysis Batch: 214088

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
							Lower	Upper		
Methyl tert-butyl ether	25.0	22.1		ug/L		88	62 - 130	8	20	
Acetone	125	140		ug/L		112	26 - 180	19	30	
Benzene	25.0	22.8		ug/L		91	79 - 130	1	20	
Dichlorobromomethane	25.0	22.7		ug/L		91	70 - 130	2	20	
Bromobenzene	25.0	22.3		ug/L		89	70 - 130	3	20	
Chlorobromomethane	25.0	24.0		ug/L		96	70 - 130	5	20	
Bromoform	25.0	21.9		ug/L		88	68 - 136	8	20	
Bromomethane	25.0	26.4		ug/L		106	43 - 151	5	20	
2-Butanone (MEK)	125	122		ug/L		97	54 - 153	13	20	
n-Butylbenzene	25.0	23.2		ug/L		93	70 - 142	1	20	
sec-Butylbenzene	25.0	23.6		ug/L		94	70 - 134	0	20	
tert-Butylbenzene	25.0	23.8		ug/L		95	70 - 135	1	20	
Carbon disulfide	25.0	21.0		ug/L		84	68 - 146	3	20	
Carbon tetrachloride	25.0	22.8		ug/L		91	70 - 146	0	20	
Chlorobenzene	25.0	24.4		ug/L		98	70 - 130	1	20	
Chloroethane	25.0	28.2		ug/L		113	62 - 138	2	20	
Chloroform	25.0	22.9		ug/L		92	70 - 130	2	20	
Chloromethane	25.0	28.6		ug/L		115	52 - 175	0	20	
2-Chlorotoluene	25.0	22.4		ug/L		89	70 - 130	1	20	
4-Chlorotoluene	25.0	22.5		ug/L		90	70 - 130	1	20	
Chlorodibromomethane	25.0	22.2		ug/L		89	70 - 145	6	20	
1,2-Dichlorobenzene	25.0	23.1		ug/L		92	70 - 130	3	20	
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130	0	20	
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	1	20	
1,3-Dichloropropane	25.0	23.8		ug/L		95	70 - 130	6	20	
1,1-Dichloropropane	25.0	23.1		ug/L		92	70 - 130	1	20	
1,2-Dibromo-3-Chloropropane	25.0	20.2		ug/L		81	70 - 136	9	20	
Ethylene Dibromide	25.0	23.2		ug/L		93	70 - 130	7	20	
Dibromomethane	25.0	22.5		ug/L		90	70 - 130	4	20	
Dichlorodifluoromethane	25.0	31.1		ug/L		124	32 - 158	1	20	
1,1-Dichloroethane	25.0	22.8		ug/L		91	70 - 130	1	20	
1,2-Dichloroethane	25.0	22.1		ug/L		89	61 - 132	4	20	
1,1-Dichloroethene	25.0	21.3		ug/L		85	64 - 128	1	20	
cis-1,2-Dichloroethene	25.0	23.4		ug/L		93	70 - 130	2	20	
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	68 - 130	1	20	
1,2-Dichloropropane	25.0	25.1		ug/L		100	70 - 130	2	20	
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	70 - 130	3	20	
trans-1,3-Dichloropropene	25.0	21.8		ug/L		87	70 - 140	5	20	
Ethylbenzene	25.0	23.5		ug/L		94	80 - 120	0	20	

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

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

Lab Sample ID: LCSD 720-214088/6

Matrix: Water

Analysis Batch: 214088

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
Hexachlorobutadiene	25.0	22.1		ug/L		88	70 - 130	1	20
2-Hexanone	125	106		ug/L		85	60 - 164	14	20
Isopropylbenzene	25.0	24.3		ug/L		97	70 - 130	1	20
4-Isopropyltoluene	25.0	23.8		ug/L		95	70 - 130	0	20
Methylene Chloride	25.0	22.7		ug/L		91	70 - 147	4	20
4-Methyl-2-pentanone (MIBK)	125	108		ug/L		87	50 - 155	11	20
Naphthalene	25.0	22.3		ug/L		89	50 - 130	8	20
N-Propylbenzene	25.0	23.0		ug/L		92	70 - 130	0	20
Styrene	25.0	23.2		ug/L		93	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	23.6		ug/L		95	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	23.2		ug/L		93	70 - 130	7	20
Tetrachloroethene	25.0	24.2		ug/L		97	70 - 130	0	20
Toluene	25.0	23.4		ug/L		93	78 - 120	0	20
1,2,3-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	21.7		ug/L		87	70 - 130	1	20
1,1,1-Trichloroethane	25.0	21.9		ug/L		88	70 - 130	1	20
1,1,2-Trichloroethane	25.0	22.9		ug/L		92	70 - 130	6	20
Trichloroethene	25.0	24.5		ug/L		98	70 - 130	1	20
Trichlorofluoromethane	25.0	22.6		ug/L		90	66 - 132	1	20
1,2,3-Trichloropropane	25.0	22.8		ug/L		91	70 - 130	9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.3		ug/L		89	42 - 162	3	20
1,2,4-Trimethylbenzene	25.0	22.8		ug/L		91	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	23.2		ug/L		93	70 - 130	1	20
Vinyl acetate	25.0	21.1		ug/L		84	43 - 163	6	20
Vinyl chloride	25.0	30.3		ug/L		121	54 - 135	1	20
m-Xylene & p-Xylene	25.0	23.1		ug/L		92	70 - 142	0	20
o-Xylene	25.0	23.2		ug/L		93	70 - 130	1	20
2,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 140	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	92		67 - 130
1,2-Dichloroethane-d4 (Surr)	86		72 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: LCSD 720-214088/8

Matrix: Water

Analysis Batch: 214088

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	444		ug/L		89	71 - 125	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	92		67 - 130
1,2-Dichloroethane-d4 (Surr)	86		72 - 130
Toluene-d8 (Surr)	94		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-214054/4
Matrix: Water
Analysis Batch: 214054

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			12/01/16 15:41	1
Nitrate as NO3	ND		1.0		mg/L			12/01/16 15:41	1

Lab Sample ID: LCS 720-214054/5
Matrix: Water
Analysis Batch: 214054

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	10.6		mg/L		106	90 - 110
Nitrate as NO3	10.0	9.17		mg/L		92	90 - 110

Lab Sample ID: MB 720-214105/19
Matrix: Water
Analysis Batch: 214105

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			12/02/16 16:38	1
Nitrate as NO3	ND		1.0		mg/L			12/02/16 16:38	1

Lab Sample ID: LCS 720-214105/20
Matrix: Water
Analysis Batch: 214105

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	10.3		mg/L		103	90 - 110
Nitrate as NO3	10.0	10.2		mg/L		102	90 - 110

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-214229/1-A
Matrix: Water
Analysis Batch: 214329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 214229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		12/06/16 09:46	12/06/16 18:57	1

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 720-214134/10
Matrix: Water
Analysis Batch: 214134

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			12/02/16 13:58	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Method: SM 3500 Fe B - Iron, Ferrous (Continued)

Lab Sample ID: LCS 720-214134/11
Matrix: Water
Analysis Batch: 214134

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	0.977		mg/L		98	85 - 115

Lab Sample ID: 720-76130-4 MS
Matrix: Water
Analysis Batch: 214134

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	ND	HF	1.00	0.935		mg/L		94	75 - 125

Lab Sample ID: 720-76130-4 MSD
Matrix: Water
Analysis Batch: 214134

Client Sample ID: MW-13
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	ND	HF	1.00	0.963		mg/L		96	75 - 125	3	20

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-363686/1-A
Matrix: Water
Analysis Batch: 363709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		12/05/16 16:45	12/05/16 18:51	1

Lab Sample ID: LCS 500-363686/2-A
Matrix: Water
Analysis Batch: 363709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.50	2.43		mg/L		97	80 - 120

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

GC/MS VOA

Analysis Batch: 214058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-1	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-2	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-4	MW-13	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-5	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-6	MW-16	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-7	MW-15	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-8	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-9	GAC	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-214058/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-214058/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-214058/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-214058/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-214058/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-1 MS	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-76130-1 MSD	INF	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 214088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-214088/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-214088/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-214088/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-214088/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-214088/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

HPLC/IC

Analysis Batch: 214054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	300.0	
720-76130-4	MW-13	Total/NA	Water	300.0	
720-76130-5	MW-10	Total/NA	Water	300.0	
720-76130-6	MW-16	Total/NA	Water	300.0	
720-76130-7	MW-15	Total/NA	Water	300.0	
720-76130-7	MW-15	Total/NA	Water	300.0	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

HPLC/IC (Continued)

Analysis Batch: 214054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-8	MW-9	Total/NA	Water	300.0	
MB 720-214054/4	Method Blank	Total/NA	Water	300.0	
LCS 720-214054/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 214105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-4	MW-13	Total/NA	Water	300.0	
720-76130-5	MW-10	Total/NA	Water	300.0	
720-76130-6	MW-16	Total/NA	Water	300.0	
720-76130-8	MW-9	Total/NA	Water	300.0	
MB 720-214105/19	Method Blank	Total/NA	Water	300.0	
LCS 720-214105/20	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 214229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	200.7	
720-76130-4	MW-13	Total/NA	Water	200.7	
720-76130-5	MW-10	Total/NA	Water	200.7	
720-76130-6	MW-16	Total/NA	Water	200.7	
720-76130-7	MW-15	Total/NA	Water	200.7	
720-76130-8	MW-9	Total/NA	Water	200.7	
MB 720-214229/1-A	Method Blank	Total/NA	Water	200.7	
LCS 720-214229/2-A	Lab Control Sample	Total/NA	Water	200.7	
720-76130-3 MS	MW-14	Total/NA	Water	200.7	
720-76130-3 MSD	MW-14	Total/NA	Water	200.7	

Analysis Batch: 214329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	200.7 Rev 4.4	214229
720-76130-4	MW-13	Total/NA	Water	200.7 Rev 4.4	214229
720-76130-5	MW-10	Total/NA	Water	200.7 Rev 4.4	214229
720-76130-6	MW-16	Total/NA	Water	200.7 Rev 4.4	214229
720-76130-7	MW-15	Total/NA	Water	200.7 Rev 4.4	214229
720-76130-8	MW-9	Total/NA	Water	200.7 Rev 4.4	214229
MB 720-214229/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	214229
LCS 720-214229/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	214229
720-76130-3 MS	MW-14	Total/NA	Water	200.7 Rev 4.4	214229
720-76130-3 MSD	MW-14	Total/NA	Water	200.7 Rev 4.4	214229

General Chemistry

Analysis Batch: 214134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	SM 3500 Fe B	
720-76130-4	MW-13	Total/NA	Water	SM 3500 Fe B	
720-76130-5	MW-10	Total/NA	Water	SM 3500 Fe B	
720-76130-6	MW-16	Total/NA	Water	SM 3500 Fe B	
720-76130-7	MW-15	Total/NA	Water	SM 3500 Fe B	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

General Chemistry (Continued)

Analysis Batch: 214134 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-8	MW-9	Total/NA	Water	SM 3500 Fe B	
MB 720-214134/10	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 720-214134/11	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	
720-76130-4 MS	MW-13	Total/NA	Water	SM 3500 Fe B	
720-76130-4 MSD	MW-13	Total/NA	Water	SM 3500 Fe B	

Analysis Batch: 214351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	SM 3500	
720-76130-4	MW-13	Total/NA	Water	SM 3500	
720-76130-5	MW-10	Total/NA	Water	SM 3500	
720-76130-6	MW-16	Total/NA	Water	SM 3500	
720-76130-7	MW-15	Total/NA	Water	SM 3500	
720-76130-8	MW-9	Total/NA	Water	SM 3500	

Prep Batch: 363686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	SM 4500 NH3 B	
720-76130-4	MW-13	Total/NA	Water	SM 4500 NH3 B	
720-76130-5	MW-10	Total/NA	Water	SM 4500 NH3 B	
720-76130-6	MW-16	Total/NA	Water	SM 4500 NH3 B	
720-76130-7	MW-15	Total/NA	Water	SM 4500 NH3 B	
720-76130-8	MW-9	Total/NA	Water	SM 4500 NH3 B	
MB 500-363686/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 500-363686/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 363709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76130-3	MW-14	Total/NA	Water	SM 4500 NH3 G	363686
720-76130-4	MW-13	Total/NA	Water	SM 4500 NH3 G	363686
720-76130-5	MW-10	Total/NA	Water	SM 4500 NH3 G	363686
720-76130-6	MW-16	Total/NA	Water	SM 4500 NH3 G	363686
720-76130-7	MW-15	Total/NA	Water	SM 4500 NH3 G	363686
720-76130-8	MW-9	Total/NA	Water	SM 4500 NH3 G	363686
MB 500-363686/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	363686
LCS 500-363686/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	363686

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: INF

Date Collected: 12/01/16 08:15

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-1

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	214058	12/02/16 00:00	LPL	TAL PLS

Client Sample ID: EFF

Date Collected: 12/01/16 08:17

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-2

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	214058	12/02/16 01:27	LPL	TAL PLS

Client Sample ID: MW-14

Date Collected: 12/01/16 11:00

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	214088	12/02/16 15:24	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214054	12/01/16 20:43	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 19:35	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363686	12/05/16 16:45	JB	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363709		JB	TAL CHI
					(Start)	12/05/16 18:57		
					(End)	12/05/16 18:59		

Client Sample ID: MW-13

Date Collected: 12/01/16 11:25

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-4

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	214058	12/02/16 02:25	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214054	12/01/16 21:17	ECB	TAL PLS
Total/NA	Analysis	300.0		100	214105	12/02/16 17:47	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 19:40	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363686	12/05/16 16:45	JB	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363709		JB	TAL CHI
					(Start)	12/05/16 18:59		
					(End)	12/05/16 19:02		

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-10

Date Collected: 12/01/16 12:45

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-5

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	214058	12/02/16 02:54	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214054	12/01/16 21:51	ECB	TAL PLS
Total/NA	Analysis	300.0		100	214105	12/02/16 18:04	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 19:45	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363686	12/05/16 16:45	JB	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363709		JB	TAL CHI
						(Start) 12/05/16 19:02		
						(End) 12/05/16 19:05		

Client Sample ID: MW-16

Date Collected: 12/01/16 14:10

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-6

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	214058	12/02/16 03:23	LPL	TAL PLS
Total/NA	Analysis	300.0		10	214054	12/01/16 22:44	ECB	TAL PLS
Total/NA	Analysis	300.0		100	214105	12/02/16 18:21	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 19:50	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363686	12/05/16 16:45	JB	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363709		JB	TAL CHI
						(Start) 12/05/16 19:05		
						(End) 12/05/16 19:08		

Client Sample ID: MW-15

Date Collected: 12/01/16 14:52

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-7

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	214058	12/02/16 03:52	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214054	12/01/16 23:01	ECB	TAL PLS
Total/NA	Analysis	300.0		10	214054	12/01/16 23:18	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 19:55	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363686	12/05/16 16:45	JB	TAL CHI

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Client Sample ID: MW-15

Date Collected: 12/01/16 14:52

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 G		1	363709	12/05/16 19:08 12/05/16 19:10	JBJ	TAL CHI

Client Sample ID: MW-9

Date Collected: 12/01/16 13:22

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-8

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	214058	12/02/16 04:21	LPL	TAL PLS
Total/NA	Analysis	300.0		10	214054	12/02/16 00:26	ECB	TAL PLS
Total/NA	Analysis	300.0		100	214105	12/02/16 18:38	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 19:59	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363686	12/05/16 16:45	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363709	12/05/16 19:10 12/05/16 19:13	JBJ	TAL CHI

Client Sample ID: GAC

Date Collected: 12/01/16 15:21

Date Received: 12/01/16 16:40

Lab Sample ID: 720-76130-9

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	214058	12/02/16 04:50	LPL	TAL PLS

Laboratory References:

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

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: 720-76130-1

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

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
Kentucky (WW)	State Program	4	KY90023	12-31-16 *
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	12-31-16 *
North Dakota	State Program	8	R-194	04-30-17
Oklahoma	State Program	6	8908	08-31-17
South Carolina	State Program	4	77001	04-30-17
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

* Certification renewal pending - certification considered valid.

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS
300.0	Anions, Ion Chromatography	MCAWW	TAL PLS
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PLS
SM 3500	Iron, Ferric	SM	TAL PLS
SM 3500 Fe B	Iron, Ferrous	SM	TAL PLS
SM 4500 NH3 G	Ammonia	SM	TAL CHI

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

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76130-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-76130-1	INF	Water	12/01/16 08:15	12/01/16 16:40
720-76130-2	EFF	Water	12/01/16 08:17	12/01/16 16:40
720-76130-3	MW-14	Water	12/01/16 11:00	12/01/16 16:40
720-76130-4	MW-13	Water	12/01/16 11:25	12/01/16 16:40
720-76130-5	MW-10	Water	12/01/16 12:45	12/01/16 16:40
720-76130-6	MW-16	Water	12/01/16 14:10	12/01/16 16:40
720-76130-7	MW-15	Water	12/01/16 14:52	12/01/16 16:40
720-76130-8	MW-9	Water	12/01/16 13:22	12/01/16 16:40
720-76130-9	GAC	Water	12/01/16 15:21	12/01/16 16:40

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Duong, Paloma

1726116

From: Peter Sims <psims@ninyoandmoore.com>
Sent: Thursday, December 01, 2016 4:51 PM
To: Duong, Paloma
Subject: Re: Chun samples

Paloma,

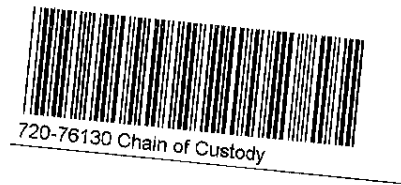
✓ Samples EFF, GAC, and INF will be analyzed for VOCs and TPHg by 8260B

The remaining samples will be analyzed for:

- ✓TPHg and VOCs by EPA 8260B
- ✓Iron by EPA 200.7
- ✓Ferric Iron by calculation
- ✓Ferrous Iron by SM3500-Fe
- ✓Nitrate and Nitrite by EPA 300.0
- ✓ Nitrogen, Ammonia by SM 4500-NH3 D

Thanks,

Peter Sims
Project Environmental Geologist
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland CA, 94612
c: 510-327-9335
o: 510-343-3000



From: Duong, Paloma <Paloma.Duong@testamericainc.com>
Sent: Thursday, December 1, 2016 3:44:01 PM
To: Peter Sims
Subject: RE: Chun samples

Thank you Peter. I will wait for this updated list of methods.

PALOMA DUONG
Project Manager I

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
1220 Quarry Lane
Pleasanton, CA 94566
Tel 925-484-1919 ext.114

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

From: Peter Sims [<mailto:psims@ninyoandmoore.com>]
Sent: Thursday, December 01, 2016 3:43 PM

To: Duong, Paloma
Subject: Chun samples

Hi Paloma, I forgot to bring the list of analyses with me into the field today so the COC you will receive with samples collected today doesn't have any analyses selected. I will email later tonight with the analyses I need.

Thanks

Peter Sims
Project Environmental Geologist
Ninyo & Moore
psims@ninyoandmoore.com
cell: 510-327-9335
office: 510-343-3000

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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: 720-31516.1			
Client Contact: Shipping/Receiving		Phone:		E-Mail: paloma.duong@testamericainc.com		State of Origin: California		Page: Page 1 of 1			
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note): State Program - California				Job #: 720-76130-1			
Address: 2417 Bond Street, City: University Park State, Zip: IL, 60484 Phone: 708-534-5200(Tel) 708-534-5211(Fax) Email:		Due Date Requested: 12/7/2016 TAT Requested (days):		Analysis Requested						Preservation Codes: A - HCL M - Hexane 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) Other:	
Project Name: Chun Site:		Project #: 72010606 SSOW#:									
PO #:		WO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers:			
720-76130 COC				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/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							
MW-14 (720-76130-3)		12/1/16	11:00 Pacific		Water		X		1		
MW-13 (720-76130-4)		12/1/16	11:25 Pacific		Water		X		1		
MW-10 (720-76130-5)		12/1/16	12:45 Pacific		Water		X		1		
MW-16 (720-76130-6)		12/1/16	14:10 Pacific		Water		X		1		
MW-15 (720-76130-7)		12/1/16	14:52 Pacific		Water		X		1		
MW-9 (720-76130-8)		12/1/16	13:22 Pacific		Water		X		1		
<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>J. Garcia</i>		Date/Time: 12/2/16 1525		Company: TA		Received by: <i>Paul Samuel</i>		Date/Time: 12/3/16 0930		Company: TA UNI	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: -2.8							



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-76130-1

Login Number: 76130

List Number: 1

Creator: Mullen, Joan

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.	False	
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").	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: 720-76130-1

Login Number: 76130
List Number: 2
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago
List Creation: 12/03/16 11:43 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	-2.8
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	



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: 720-76149-1
Client Project/Site: Chun
Revision: 1

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

Attn: Mr. Peter D. Sims



Authorized for release by:
1/26/2017 10:48:18 AM
Micah Smith, Project Manager II
(916)374-4302
micah.smith@testamericainc.com

Designee for
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.

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Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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: 720-76149-1

Job ID: 720-76149-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-76149-1

Comments

This report was revised, as requested, to correct the sample IDs. The email request is included in the COC section of the report.

Receipt

The samples were received on 12/2/2016 4:45 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

Method 8260B: The Gasoline Range Organics (GRO) concentration reported for the following sample is due to the presence of discrete peaks: MW-12 (720-76149-3).

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 720-214165 were outside control limits. Sample matrix interference and/or 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.

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.

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-8

Lab Sample ID: 720-76149-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	21		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	2.5		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
sec-Butylbenzene	4.3		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	2.8		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	24		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	68		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	25		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	9.4		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	0.88		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	16		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2600		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Iron	22		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	12		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	9.7		0.50		mg/L	5		SM 3500 Fe B	Total/NA

Client Sample ID: MW-6R

Lab Sample ID: 720-76149-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	0.98		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	2.4		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	3.6		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	6.3		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	99		10		mg/L	10		300.0	Total/NA
Ammonia	0.58		0.20		mg/L	1		SM 4500 NH3 G	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 720-76149-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1900		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	12		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	17		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Naphthalene	22		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	3200		500		ug/L	10		8260B/CA_LUFT MS	Total/NA
Iron	1.2		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	0.10		0.10		mg/L	1		SM 3500	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-12 (Continued)

Lab Sample ID: 720-76149-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ferrous Iron	1.1		0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-4R

Lab Sample ID: 720-76149-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1500		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	12		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
sec-Butylbenzene	10		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	940		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	56		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Naphthalene	180		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	76		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
Toluene	3100		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	550		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	110		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	4000		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	13000		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	4.4		1.0		mg/L	1		300.0	Total/NA
Iron	5.6		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferrous Iron	6.0		0.50		mg/L	5		SM 3500 Fe B	Total/NA
Ammonia	4.4		0.40		mg/L	2		SM 4500 NH3 G	Total/NA

Client Sample ID: MW-11R

Lab Sample ID: 720-76149-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2900		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	660		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Naphthalene	220		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Toluene	2000		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	710		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	190		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	2400		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	13000		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	14		1.0		mg/L	1		300.0	Total/NA
Iron	9.5		1.0		mg/L	1		200.7 Rev 4.4	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-11R (Continued)

Lab Sample ID: 720-76149-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ferrous Iron	11		0.50		mg/L	5		SM 3500 Fe B	Total/NA

Client Sample ID: MW-5R

Lab Sample ID: 720-76149-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1100		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	4100		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	130		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Naphthalene	670		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	320		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Toluene	13000		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	2600		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	580		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	24000		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	63000		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA
Iron	2.2		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	0.50		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	1.7		0.10		mg/L	1		SM 3500 Fe B	Total/NA
Ammonia	0.43		0.20		mg/L	1		SM 4500 NH3 G	Total/NA

Client Sample ID: MW-7R

Lab Sample ID: 720-76149-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1600		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
Naphthalene	560		500		ug/L	500		8260B/CA_LUFT MS	Total/NA
Toluene	7300		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	1800		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	450		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	16000		500		ug/L	500		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	40000		25000		ug/L	500		8260B/CA_LUFT MS	Total/NA
Nitrate as NO3	1.0		1.0		mg/L	1		300.0	Total/NA
Iron	3.9		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	1.5		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	2.4		0.10		mg/L	1		SM 3500 Fe B	Total/NA
Ammonia	0.86		0.20		mg/L	1		SM 4500 NH3 G	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: 720-76149-1

Client Sample ID: MW-8
Date Collected: 12/02/16 08:00
Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-1
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			12/05/16 18:25	1
Acetone	ND		50		ug/L			12/05/16 18:25	1
Benzene	21		0.50		ug/L			12/05/16 18:25	1
Dichlorobromomethane	ND		0.50		ug/L			12/05/16 18:25	1
Bromobenzene	ND		1.0		ug/L			12/05/16 18:25	1
Chlorobromomethane	ND		1.0		ug/L			12/05/16 18:25	1
Bromoform	ND		1.0		ug/L			12/05/16 18:25	1
Bromomethane	ND		1.0		ug/L			12/05/16 18:25	1
2-Butanone (MEK)	ND		50		ug/L			12/05/16 18:25	1
n-Butylbenzene	2.5		1.0		ug/L			12/05/16 18:25	1
sec-Butylbenzene	4.3		1.0		ug/L			12/05/16 18:25	1
tert-Butylbenzene	ND		1.0		ug/L			12/05/16 18:25	1
Carbon disulfide	ND		5.0		ug/L			12/05/16 18:25	1
Carbon tetrachloride	ND		0.50		ug/L			12/05/16 18:25	1
Chlorobenzene	ND		0.50		ug/L			12/05/16 18:25	1
Chloroethane	ND		1.0		ug/L			12/05/16 18:25	1
Chloroform	ND		1.0		ug/L			12/05/16 18:25	1
Chloromethane	ND		1.0		ug/L			12/05/16 18:25	1
2-Chlorotoluene	ND		0.50		ug/L			12/05/16 18:25	1
4-Chlorotoluene	ND		0.50		ug/L			12/05/16 18:25	1
Chlorodibromomethane	ND		0.50		ug/L			12/05/16 18:25	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/05/16 18:25	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/05/16 18:25	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/05/16 18:25	1
1,3-Dichloropropane	ND		1.0		ug/L			12/05/16 18:25	1
1,1-Dichloropropene	ND		0.50		ug/L			12/05/16 18:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/05/16 18:25	1
Ethylene Dibromide	ND		0.50		ug/L			12/05/16 18:25	1
Dibromomethane	ND		0.50		ug/L			12/05/16 18:25	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/05/16 18:25	1
1,1-Dichloroethane	ND		0.50		ug/L			12/05/16 18:25	1
1,2-Dichloroethane	ND		0.50		ug/L			12/05/16 18:25	1
1,1-Dichloroethene	ND		0.50		ug/L			12/05/16 18:25	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/05/16 18:25	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/05/16 18:25	1
1,2-Dichloropropane	ND		0.50		ug/L			12/05/16 18:25	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/05/16 18:25	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/05/16 18:25	1
Ethylbenzene	2.8		0.50		ug/L			12/05/16 18:25	1
Hexachlorobutadiene	ND		1.0		ug/L			12/05/16 18:25	1
2-Hexanone	ND		50		ug/L			12/05/16 18:25	1
Isopropylbenzene	24		0.50		ug/L			12/05/16 18:25	1
4-Isopropyltoluene	ND		1.0		ug/L			12/05/16 18:25	1
Methylene Chloride	ND		5.0		ug/L			12/05/16 18:25	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/05/16 18:25	1
Naphthalene	68		1.0		ug/L			12/05/16 18:25	1
N-Propylbenzene	25		1.0		ug/L			12/05/16 18:25	1
Styrene	ND		0.50		ug/L			12/05/16 18:25	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/05/16 18:25	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-8
Date Collected: 12/02/16 08:00
Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-1
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			12/05/16 18:25	1
Tetrachloroethene	ND		0.50		ug/L			12/05/16 18:25	1
Toluene	9.4		0.50		ug/L			12/05/16 18:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/05/16 18:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/05/16 18:25	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/05/16 18:25	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/05/16 18:25	1
Trichloroethene	ND		0.50		ug/L			12/05/16 18:25	1
Trichlorofluoromethane	ND		1.0		ug/L			12/05/16 18:25	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/05/16 18:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/05/16 18:25	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/05/16 18:25	1
1,3,5-Trimethylbenzene	0.88		0.50		ug/L			12/05/16 18:25	1
Vinyl acetate	ND	F1	10		ug/L			12/05/16 18:25	1
Vinyl chloride	ND		0.50		ug/L			12/05/16 18:25	1
Xylenes, Total	16		1.0		ug/L			12/05/16 18:25	1
2,2-Dichloropropane	ND		0.50		ug/L			12/05/16 18:25	1
Gasoline Range Organics (GRO)	2600		50		ug/L			12/05/16 18:25	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		67 - 130		12/05/16 18:25	1
1,2-Dichloroethane-d4 (Surr)	87		72 - 130		12/05/16 18:25	1
Toluene-d8 (Surr)	96		70 - 130		12/05/16 18:25	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			12/02/16 19:06	1
Nitrate as NO3	ND		1.0		mg/L			12/02/16 19:06	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	22		1.0		mg/L		12/06/16 09:46	12/06/16 20:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	12		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	9.7		0.50		mg/L			12/02/16 13:58	5
Ammonia	ND		0.20		mg/L		12/06/16 16:30	12/06/16 19:09	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-6R
Date Collected: 12/02/16 09:25
Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-2
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			12/06/16 12:07	1
Acetone	ND		50		ug/L			12/06/16 12:07	1
Benzene	ND		0.50		ug/L			12/06/16 12:07	1
Dichlorobromomethane	ND		0.50		ug/L			12/06/16 12:07	1
Bromobenzene	ND		1.0		ug/L			12/06/16 12:07	1
Chlorobromomethane	ND		1.0		ug/L			12/06/16 12:07	1
Bromoform	ND		1.0		ug/L			12/06/16 12:07	1
Bromomethane	ND		1.0		ug/L			12/06/16 12:07	1
2-Butanone (MEK)	ND		50		ug/L			12/06/16 12:07	1
n-Butylbenzene	ND		1.0		ug/L			12/06/16 12:07	1
sec-Butylbenzene	ND		1.0		ug/L			12/06/16 12:07	1
tert-Butylbenzene	ND		1.0		ug/L			12/06/16 12:07	1
Carbon disulfide	ND		5.0		ug/L			12/06/16 12:07	1
Carbon tetrachloride	ND		0.50		ug/L			12/06/16 12:07	1
Chlorobenzene	ND		0.50		ug/L			12/06/16 12:07	1
Chloroethane	ND		1.0		ug/L			12/06/16 12:07	1
Chloroform	ND		1.0		ug/L			12/06/16 12:07	1
Chloromethane	ND		1.0		ug/L			12/06/16 12:07	1
2-Chlorotoluene	ND		0.50		ug/L			12/06/16 12:07	1
4-Chlorotoluene	ND		0.50		ug/L			12/06/16 12:07	1
Chlorodibromomethane	ND		0.50		ug/L			12/06/16 12:07	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/06/16 12:07	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/06/16 12:07	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/06/16 12:07	1
1,3-Dichloropropane	ND		1.0		ug/L			12/06/16 12:07	1
1,1-Dichloropropene	ND		0.50		ug/L			12/06/16 12:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/06/16 12:07	1
Ethylene Dibromide	ND		0.50		ug/L			12/06/16 12:07	1
Dibromomethane	ND		0.50		ug/L			12/06/16 12:07	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/06/16 12:07	1
1,1-Dichloroethane	ND		0.50		ug/L			12/06/16 12:07	1
1,2-Dichloroethane	ND		0.50		ug/L			12/06/16 12:07	1
1,1-Dichloroethene	ND		0.50		ug/L			12/06/16 12:07	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/06/16 12:07	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/06/16 12:07	1
1,2-Dichloropropane	ND		0.50		ug/L			12/06/16 12:07	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/06/16 12:07	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/06/16 12:07	1
Ethylbenzene	ND		0.50		ug/L			12/06/16 12:07	1
Hexachlorobutadiene	ND		1.0		ug/L			12/06/16 12:07	1
2-Hexanone	ND		50		ug/L			12/06/16 12:07	1
Isopropylbenzene	0.98		0.50		ug/L			12/06/16 12:07	1
4-Isopropyltoluene	ND		1.0		ug/L			12/06/16 12:07	1
Methylene Chloride	ND		5.0		ug/L			12/06/16 12:07	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/06/16 12:07	1
Naphthalene	2.4		1.0		ug/L			12/06/16 12:07	1
N-Propylbenzene	ND		1.0		ug/L			12/06/16 12:07	1
Styrene	ND		0.50		ug/L			12/06/16 12:07	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/06/16 12:07	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-6R

Lab Sample ID: 720-76149-2

Date Collected: 12/02/16 09:25

Matrix: Water

Date Received: 12/02/16 16:45

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			12/06/16 12:07	1
Tetrachloroethene	ND		0.50		ug/L			12/06/16 12:07	1
Toluene	ND		0.50		ug/L			12/06/16 12:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/06/16 12:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/06/16 12:07	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/06/16 12:07	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/06/16 12:07	1
Trichloroethene	ND		0.50		ug/L			12/06/16 12:07	1
Trichlorofluoromethane	ND		1.0		ug/L			12/06/16 12:07	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/06/16 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/06/16 12:07	1
1,2,4-Trimethylbenzene	3.6		0.50		ug/L			12/06/16 12:07	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/06/16 12:07	1
Vinyl acetate	ND		10		ug/L			12/06/16 12:07	1
Vinyl chloride	ND		0.50		ug/L			12/06/16 12:07	1
Xylenes, Total	6.3		1.0		ug/L			12/06/16 12:07	1
2,2-Dichloropropane	ND		0.50		ug/L			12/06/16 12:07	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/06/16 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		67 - 130		12/06/16 12:07	1
1,2-Dichloroethane-d4 (Surr)	89		72 - 130		12/06/16 12:07	1
Toluene-d8 (Surr)	94		70 - 130		12/06/16 12:07	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			12/02/16 20:31	1
Nitrate as NO3	99		10		mg/L			12/02/16 20:48	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		12/06/16 09:46	12/06/16 20:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	ND		0.10		mg/L			12/02/16 13:58	1
Ammonia	0.58		0.20		mg/L		12/06/16 16:30	12/06/16 19:12	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-12

Date Collected: 12/02/16 10:40

Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-3

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		5.0		ug/L			12/05/16 15:31	10
Acetone	ND		500		ug/L			12/05/16 15:31	10
Benzene	1900		5.0		ug/L			12/05/16 15:31	10
Dichlorobromomethane	ND		5.0		ug/L			12/05/16 15:31	10
Bromobenzene	ND		10		ug/L			12/05/16 15:31	10
Chlorobromomethane	ND		10		ug/L			12/05/16 15:31	10
Bromoform	ND		10		ug/L			12/05/16 15:31	10
Bromomethane	ND		10		ug/L			12/05/16 15:31	10
2-Butanone (MEK)	ND		500		ug/L			12/05/16 15:31	10
n-Butylbenzene	ND		10		ug/L			12/05/16 15:31	10
sec-Butylbenzene	ND		10		ug/L			12/05/16 15:31	10
tert-Butylbenzene	ND		10		ug/L			12/05/16 15:31	10
Carbon disulfide	ND		50		ug/L			12/05/16 15:31	10
Carbon tetrachloride	ND		5.0		ug/L			12/05/16 15:31	10
Chlorobenzene	ND		5.0		ug/L			12/05/16 15:31	10
Chloroethane	ND		10		ug/L			12/05/16 15:31	10
Chloroform	ND		10		ug/L			12/05/16 15:31	10
Chloromethane	ND		10		ug/L			12/05/16 15:31	10
2-Chlorotoluene	ND		5.0		ug/L			12/05/16 15:31	10
4-Chlorotoluene	ND		5.0		ug/L			12/05/16 15:31	10
Chlorodibromomethane	ND		5.0		ug/L			12/05/16 15:31	10
1,2-Dichlorobenzene	ND		5.0		ug/L			12/05/16 15:31	10
1,3-Dichlorobenzene	ND		5.0		ug/L			12/05/16 15:31	10
1,4-Dichlorobenzene	ND		5.0		ug/L			12/05/16 15:31	10
1,3-Dichloropropane	ND		10		ug/L			12/05/16 15:31	10
1,1-Dichloropropene	ND		5.0		ug/L			12/05/16 15:31	10
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			12/05/16 15:31	10
Ethylene Dibromide	ND		5.0		ug/L			12/05/16 15:31	10
Dibromomethane	ND		5.0		ug/L			12/05/16 15:31	10
Dichlorodifluoromethane	ND		5.0		ug/L			12/05/16 15:31	10
1,1-Dichloroethane	ND		5.0		ug/L			12/05/16 15:31	10
1,2-Dichloroethane	ND		5.0		ug/L			12/05/16 15:31	10
1,1-Dichloroethene	ND		5.0		ug/L			12/05/16 15:31	10
cis-1,2-Dichloroethene	ND		5.0		ug/L			12/05/16 15:31	10
trans-1,2-Dichloroethene	ND		5.0		ug/L			12/05/16 15:31	10
1,2-Dichloropropane	ND		5.0		ug/L			12/05/16 15:31	10
cis-1,3-Dichloropropene	ND		5.0		ug/L			12/05/16 15:31	10
trans-1,3-Dichloropropene	ND		5.0		ug/L			12/05/16 15:31	10
Ethylbenzene	12		5.0		ug/L			12/05/16 15:31	10
Hexachlorobutadiene	ND		10		ug/L			12/05/16 15:31	10
2-Hexanone	ND		500		ug/L			12/05/16 15:31	10
Isopropylbenzene	17		5.0		ug/L			12/05/16 15:31	10
4-Isopropyltoluene	ND		10		ug/L			12/05/16 15:31	10
Methylene Chloride	ND		50		ug/L			12/05/16 15:31	10
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			12/05/16 15:31	10
Naphthalene	22		10		ug/L			12/05/16 15:31	10
N-Propylbenzene	ND		10		ug/L			12/05/16 15:31	10
Styrene	ND		5.0		ug/L			12/05/16 15:31	10
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			12/05/16 15:31	10

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-12

Lab Sample ID: 720-76149-3

Date Collected: 12/02/16 10:40

Matrix: Water

Date Received: 12/02/16 16:45

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		5.0		ug/L			12/05/16 15:31	10
Tetrachloroethene	ND		5.0		ug/L			12/05/16 15:31	10
Toluene	ND		5.0		ug/L			12/05/16 15:31	10
1,2,3-Trichlorobenzene	ND		10		ug/L			12/05/16 15:31	10
1,2,4-Trichlorobenzene	ND		10		ug/L			12/05/16 15:31	10
1,1,1-Trichloroethane	ND		5.0		ug/L			12/05/16 15:31	10
1,1,2-Trichloroethane	ND		5.0		ug/L			12/05/16 15:31	10
Trichloroethene	ND		5.0		ug/L			12/05/16 15:31	10
Trichlorofluoromethane	ND		10		ug/L			12/05/16 15:31	10
1,2,3-Trichloropropane	ND		5.0		ug/L			12/05/16 15:31	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			12/05/16 15:31	10
1,2,4-Trimethylbenzene	ND		5.0		ug/L			12/05/16 15:31	10
1,3,5-Trimethylbenzene	ND		5.0		ug/L			12/05/16 15:31	10
Vinyl acetate	ND		100		ug/L			12/05/16 15:31	10
Vinyl chloride	ND		5.0		ug/L			12/05/16 15:31	10
Xylenes, Total	ND		10		ug/L			12/05/16 15:31	10
2,2-Dichloropropane	ND		5.0		ug/L			12/05/16 15:31	10
Gasoline Range Organics (GRO)	3200		500		ug/L			12/05/16 15:31	10
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		67 - 130		12/05/16 15:31	10
1,2-Dichloroethane-d4 (Surr)	87		72 - 130		12/05/16 15:31	10
Toluene-d8 (Surr)	92		70 - 130		12/05/16 15:31	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			12/02/16 21:23	1
Nitrate as NO3	ND		1.0		mg/L			12/02/16 21:23	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.2		1.0		mg/L		12/06/16 09:46	12/06/16 20:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	0.10		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	1.1		0.10		mg/L			12/02/16 13:58	1
Ammonia	ND		0.20		mg/L		12/06/16 16:30	12/06/16 19:15	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-4R
Date Collected: 12/02/16 11:40
Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-4
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		5.0		ug/L			12/05/16 16:00	10
Acetone	ND		500		ug/L			12/05/16 16:00	10
Benzene	1500		5.0		ug/L			12/05/16 16:00	10
Dichlorobromomethane	ND		5.0		ug/L			12/05/16 16:00	10
Bromobenzene	ND		10		ug/L			12/05/16 16:00	10
Chlorobromomethane	ND		10		ug/L			12/05/16 16:00	10
Bromoform	ND		10		ug/L			12/05/16 16:00	10
Bromomethane	ND		10		ug/L			12/05/16 16:00	10
2-Butanone (MEK)	ND		500		ug/L			12/05/16 16:00	10
n-Butylbenzene	12		10		ug/L			12/05/16 16:00	10
sec-Butylbenzene	10		10		ug/L			12/05/16 16:00	10
tert-Butylbenzene	ND		10		ug/L			12/05/16 16:00	10
Carbon disulfide	ND		50		ug/L			12/05/16 16:00	10
Carbon tetrachloride	ND		5.0		ug/L			12/05/16 16:00	10
Chlorobenzene	ND		5.0		ug/L			12/05/16 16:00	10
Chloroethane	ND		10		ug/L			12/05/16 16:00	10
Chloroform	ND		10		ug/L			12/05/16 16:00	10
Chloromethane	ND		10		ug/L			12/05/16 16:00	10
2-Chlorotoluene	ND		5.0		ug/L			12/05/16 16:00	10
4-Chlorotoluene	ND		5.0		ug/L			12/05/16 16:00	10
Chlorodibromomethane	ND		5.0		ug/L			12/05/16 16:00	10
1,2-Dichlorobenzene	ND		5.0		ug/L			12/05/16 16:00	10
1,3-Dichlorobenzene	ND		5.0		ug/L			12/05/16 16:00	10
1,4-Dichlorobenzene	ND		5.0		ug/L			12/05/16 16:00	10
1,3-Dichloropropane	ND		10		ug/L			12/05/16 16:00	10
1,1-Dichloropropene	ND		5.0		ug/L			12/05/16 16:00	10
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			12/05/16 16:00	10
Ethylene Dibromide	ND		5.0		ug/L			12/05/16 16:00	10
Dibromomethane	ND		5.0		ug/L			12/05/16 16:00	10
Dichlorodifluoromethane	ND		5.0		ug/L			12/05/16 16:00	10
1,1-Dichloroethane	ND		5.0		ug/L			12/05/16 16:00	10
1,2-Dichloroethane	ND		5.0		ug/L			12/05/16 16:00	10
1,1-Dichloroethene	ND		5.0		ug/L			12/05/16 16:00	10
cis-1,2-Dichloroethene	ND		5.0		ug/L			12/05/16 16:00	10
trans-1,2-Dichloroethene	ND		5.0		ug/L			12/05/16 16:00	10
1,2-Dichloropropane	ND		5.0		ug/L			12/05/16 16:00	10
cis-1,3-Dichloropropene	ND		5.0		ug/L			12/05/16 16:00	10
trans-1,3-Dichloropropene	ND		5.0		ug/L			12/05/16 16:00	10
Ethylbenzene	940		5.0		ug/L			12/05/16 16:00	10
Hexachlorobutadiene	ND		10		ug/L			12/05/16 16:00	10
2-Hexanone	ND		500		ug/L			12/05/16 16:00	10
Isopropylbenzene	56		5.0		ug/L			12/05/16 16:00	10
4-Isopropyltoluene	ND		10		ug/L			12/05/16 16:00	10
Methylene Chloride	ND		50		ug/L			12/05/16 16:00	10
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			12/05/16 16:00	10
Naphthalene	180		10		ug/L			12/05/16 16:00	10
N-Propylbenzene	76		10		ug/L			12/05/16 16:00	10
Styrene	ND		5.0		ug/L			12/05/16 16:00	10
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			12/05/16 16:00	10

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-4R

Lab Sample ID: 720-76149-4

Date Collected: 12/02/16 11:40

Matrix: Water

Date Received: 12/02/16 16:45

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		5.0		ug/L			12/05/16 16:00	10
Tetrachloroethene	ND		5.0		ug/L			12/05/16 16:00	10
Toluene	3100		50		ug/L			12/06/16 11:38	100
1,2,3-Trichlorobenzene	ND		10		ug/L			12/05/16 16:00	10
1,2,4-Trichlorobenzene	ND		10		ug/L			12/05/16 16:00	10
1,1,1-Trichloroethane	ND		5.0		ug/L			12/05/16 16:00	10
1,1,2-Trichloroethane	ND		5.0		ug/L			12/05/16 16:00	10
Trichloroethene	ND		5.0		ug/L			12/05/16 16:00	10
Trichlorofluoromethane	ND		10		ug/L			12/05/16 16:00	10
1,2,3-Trichloropropane	ND		5.0		ug/L			12/05/16 16:00	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			12/05/16 16:00	10
1,2,4-Trimethylbenzene	550		5.0		ug/L			12/05/16 16:00	10
1,3,5-Trimethylbenzene	110		5.0		ug/L			12/05/16 16:00	10
Vinyl acetate	ND		100		ug/L			12/05/16 16:00	10
Vinyl chloride	ND		5.0		ug/L			12/05/16 16:00	10
Xylenes, Total	4000		100		ug/L			12/06/16 11:38	100
2,2-Dichloropropane	ND		5.0		ug/L			12/05/16 16:00	10
Gasoline Range Organics (GRO)	13000		5000		ug/L			12/06/16 11:38	100
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130		12/05/16 16:00	10
4-Bromofluorobenzene	91		67 - 130		12/06/16 11:38	100
1,2-Dichloroethane-d4 (Surr)	87		72 - 130		12/05/16 16:00	10
1,2-Dichloroethane-d4 (Surr)	85		72 - 130		12/06/16 11:38	100
Toluene-d8 (Surr)	95		70 - 130		12/05/16 16:00	10
Toluene-d8 (Surr)	92		70 - 130		12/06/16 11:38	100

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			12/02/16 22:25	1
Nitrate as NO3	4.4		1.0		mg/L			12/02/16 22:25	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5.6		1.0		mg/L		12/06/16 09:46	12/06/16 20:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	6.0		0.50		mg/L			12/02/16 13:58	5
Ammonia	4.4		0.40		mg/L		12/06/16 16:30	12/06/16 19:18	2

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-11R

Date Collected: 12/02/16 13:31

Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-5

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		50		ug/L			12/05/16 16:29	100
Acetone	ND		5000		ug/L			12/05/16 16:29	100
Benzene	2900		50		ug/L			12/05/16 16:29	100
Dichlorobromomethane	ND		50		ug/L			12/05/16 16:29	100
Bromobenzene	ND		100		ug/L			12/05/16 16:29	100
Chlorobromomethane	ND		100		ug/L			12/05/16 16:29	100
Bromoform	ND		100		ug/L			12/05/16 16:29	100
Bromomethane	ND		100		ug/L			12/05/16 16:29	100
2-Butanone (MEK)	ND		5000		ug/L			12/05/16 16:29	100
n-Butylbenzene	ND		100		ug/L			12/05/16 16:29	100
sec-Butylbenzene	ND		100		ug/L			12/05/16 16:29	100
tert-Butylbenzene	ND		100		ug/L			12/05/16 16:29	100
Carbon disulfide	ND		500		ug/L			12/05/16 16:29	100
Carbon tetrachloride	ND		50		ug/L			12/05/16 16:29	100
Chlorobenzene	ND		50		ug/L			12/05/16 16:29	100
Chloroethane	ND		100		ug/L			12/05/16 16:29	100
Chloroform	ND		100		ug/L			12/05/16 16:29	100
Chloromethane	ND		100		ug/L			12/05/16 16:29	100
2-Chlorotoluene	ND		50		ug/L			12/05/16 16:29	100
4-Chlorotoluene	ND		50		ug/L			12/05/16 16:29	100
Chlorodibromomethane	ND		50		ug/L			12/05/16 16:29	100
1,2-Dichlorobenzene	ND		50		ug/L			12/05/16 16:29	100
1,3-Dichlorobenzene	ND		50		ug/L			12/05/16 16:29	100
1,4-Dichlorobenzene	ND		50		ug/L			12/05/16 16:29	100
1,3-Dichloropropane	ND		100		ug/L			12/05/16 16:29	100
1,1-Dichloropropene	ND		50		ug/L			12/05/16 16:29	100
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			12/05/16 16:29	100
Ethylene Dibromide	ND		50		ug/L			12/05/16 16:29	100
Dibromomethane	ND		50		ug/L			12/05/16 16:29	100
Dichlorodifluoromethane	ND		50		ug/L			12/05/16 16:29	100
1,1-Dichloroethane	ND		50		ug/L			12/05/16 16:29	100
1,2-Dichloroethane	ND		50		ug/L			12/05/16 16:29	100
1,1-Dichloroethene	ND		50		ug/L			12/05/16 16:29	100
cis-1,2-Dichloroethene	ND		50		ug/L			12/05/16 16:29	100
trans-1,2-Dichloroethene	ND		50		ug/L			12/05/16 16:29	100
1,2-Dichloropropane	ND		50		ug/L			12/05/16 16:29	100
cis-1,3-Dichloropropene	ND		50		ug/L			12/05/16 16:29	100
trans-1,3-Dichloropropene	ND		50		ug/L			12/05/16 16:29	100
Ethylbenzene	660		50		ug/L			12/05/16 16:29	100
Hexachlorobutadiene	ND		100		ug/L			12/05/16 16:29	100
2-Hexanone	ND		5000		ug/L			12/05/16 16:29	100
Isopropylbenzene	ND		50		ug/L			12/05/16 16:29	100
4-Isopropyltoluene	ND		100		ug/L			12/05/16 16:29	100
Methylene Chloride	ND		500		ug/L			12/05/16 16:29	100
4-Methyl-2-pentanone (MIBK)	ND		5000		ug/L			12/05/16 16:29	100
Naphthalene	220		100		ug/L			12/05/16 16:29	100
N-Propylbenzene	ND		100		ug/L			12/05/16 16:29	100
Styrene	ND		50		ug/L			12/05/16 16:29	100
1,1,1,2-Tetrachloroethane	ND		50		ug/L			12/05/16 16:29	100

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-11R

Lab Sample ID: 720-76149-5

Date Collected: 12/02/16 13:31

Matrix: Water

Date Received: 12/02/16 16:45

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		50		ug/L			12/05/16 16:29	100
Tetrachloroethene	ND		50		ug/L			12/05/16 16:29	100
Toluene	2000		50		ug/L			12/06/16 11:09	100
1,2,3-Trichlorobenzene	ND		100		ug/L			12/05/16 16:29	100
1,2,4-Trichlorobenzene	ND		100		ug/L			12/05/16 16:29	100
1,1,1-Trichloroethane	ND		50		ug/L			12/05/16 16:29	100
1,1,2-Trichloroethane	ND		50		ug/L			12/05/16 16:29	100
Trichloroethene	ND		50		ug/L			12/05/16 16:29	100
Trichlorofluoromethane	ND		100		ug/L			12/05/16 16:29	100
1,2,3-Trichloropropane	ND		50		ug/L			12/05/16 16:29	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50		ug/L			12/05/16 16:29	100
1,2,4-Trimethylbenzene	710		50		ug/L			12/05/16 16:29	100
1,3,5-Trimethylbenzene	190		50		ug/L			12/05/16 16:29	100
Vinyl acetate	ND		1000		ug/L			12/05/16 16:29	100
Vinyl chloride	ND		50		ug/L			12/05/16 16:29	100
Xylenes, Total	2400		100		ug/L			12/06/16 11:09	100
2,2-Dichloropropane	ND		50		ug/L			12/05/16 16:29	100
Gasoline Range Organics (GRO)	13000		5000		ug/L			12/05/16 16:29	100
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		67 - 130		12/05/16 16:29	100
4-Bromofluorobenzene	90		67 - 130		12/06/16 11:09	100
1,2-Dichloroethane-d4 (Surr)	85		72 - 130		12/05/16 16:29	100
1,2-Dichloroethane-d4 (Surr)	83		72 - 130		12/06/16 11:09	100
Toluene-d8 (Surr)	92		70 - 130		12/05/16 16:29	100
Toluene-d8 (Surr)	92		70 - 130		12/06/16 11:09	100

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			12/02/16 23:51	1
Nitrate as NO3	14		1.0		mg/L			12/02/16 23:51	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9.5		1.0		mg/L		12/06/16 09:46	12/06/16 20:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	11		0.50		mg/L			12/02/16 13:58	5
Ammonia	ND		0.20		mg/L		12/06/16 16:30	12/06/16 19:20	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-5R

Date Collected: 12/02/16 14:35

Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-6

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		50		ug/L			12/05/16 16:58	100
Acetone	ND		5000		ug/L			12/05/16 16:58	100
Benzene	1100		50		ug/L			12/05/16 16:58	100
Dichlorobromomethane	ND		50		ug/L			12/05/16 16:58	100
Bromobenzene	ND		100		ug/L			12/05/16 16:58	100
Chlorobromomethane	ND		100		ug/L			12/05/16 16:58	100
Bromoform	ND		100		ug/L			12/05/16 16:58	100
Bromomethane	ND		100		ug/L			12/05/16 16:58	100
2-Butanone (MEK)	ND		5000		ug/L			12/05/16 16:58	100
n-Butylbenzene	ND		100		ug/L			12/05/16 16:58	100
sec-Butylbenzene	ND		100		ug/L			12/05/16 16:58	100
tert-Butylbenzene	ND		100		ug/L			12/05/16 16:58	100
Carbon disulfide	ND		500		ug/L			12/05/16 16:58	100
Carbon tetrachloride	ND		50		ug/L			12/05/16 16:58	100
Chlorobenzene	ND		50		ug/L			12/05/16 16:58	100
Chloroethane	ND		100		ug/L			12/05/16 16:58	100
Chloroform	ND		100		ug/L			12/05/16 16:58	100
Chloromethane	ND		100		ug/L			12/05/16 16:58	100
2-Chlorotoluene	ND		50		ug/L			12/05/16 16:58	100
4-Chlorotoluene	ND		50		ug/L			12/05/16 16:58	100
Chlorodibromomethane	ND		50		ug/L			12/05/16 16:58	100
1,2-Dichlorobenzene	ND		50		ug/L			12/05/16 16:58	100
1,3-Dichlorobenzene	ND		50		ug/L			12/05/16 16:58	100
1,4-Dichlorobenzene	ND		50		ug/L			12/05/16 16:58	100
1,3-Dichloropropane	ND		100		ug/L			12/05/16 16:58	100
1,1-Dichloropropene	ND		50		ug/L			12/05/16 16:58	100
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			12/05/16 16:58	100
Ethylene Dibromide	ND		50		ug/L			12/05/16 16:58	100
Dibromomethane	ND		50		ug/L			12/05/16 16:58	100
Dichlorodifluoromethane	ND		50		ug/L			12/05/16 16:58	100
1,1-Dichloroethane	ND		50		ug/L			12/05/16 16:58	100
1,2-Dichloroethane	ND		50		ug/L			12/05/16 16:58	100
1,1-Dichloroethene	ND		50		ug/L			12/05/16 16:58	100
cis-1,2-Dichloroethene	ND		50		ug/L			12/05/16 16:58	100
trans-1,2-Dichloroethene	ND		50		ug/L			12/05/16 16:58	100
1,2-Dichloropropane	ND		50		ug/L			12/05/16 16:58	100
cis-1,3-Dichloropropene	ND		50		ug/L			12/05/16 16:58	100
trans-1,3-Dichloropropene	ND		50		ug/L			12/05/16 16:58	100
Ethylbenzene	4100		50		ug/L			12/05/16 16:58	100
Hexachlorobutadiene	ND		100		ug/L			12/05/16 16:58	100
2-Hexanone	ND		5000		ug/L			12/05/16 16:58	100
Isopropylbenzene	130		50		ug/L			12/05/16 16:58	100
4-Isopropyltoluene	ND		100		ug/L			12/05/16 16:58	100
Methylene Chloride	ND		500		ug/L			12/05/16 16:58	100
4-Methyl-2-pentanone (MIBK)	ND		5000		ug/L			12/05/16 16:58	100
Naphthalene	670		100		ug/L			12/05/16 16:58	100
N-Propylbenzene	320		100		ug/L			12/05/16 16:58	100
Styrene	ND		50		ug/L			12/05/16 16:58	100
1,1,1,2-Tetrachloroethane	ND		50		ug/L			12/05/16 16:58	100

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-5R

Lab Sample ID: 720-76149-6

Date Collected: 12/02/16 14:35

Matrix: Water

Date Received: 12/02/16 16:45

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		50		ug/L			12/05/16 16:58	100
Tetrachloroethene	ND		50		ug/L			12/05/16 16:58	100
Toluene	13000		50		ug/L			12/05/16 16:58	100
1,2,3-Trichlorobenzene	ND		100		ug/L			12/05/16 16:58	100
1,2,4-Trichlorobenzene	ND		100		ug/L			12/05/16 16:58	100
1,1,1-Trichloroethane	ND		50		ug/L			12/05/16 16:58	100
1,1,2-Trichloroethane	ND		50		ug/L			12/05/16 16:58	100
Trichloroethene	ND		50		ug/L			12/05/16 16:58	100
Trichlorofluoromethane	ND		100		ug/L			12/05/16 16:58	100
1,2,3-Trichloropropane	ND		50		ug/L			12/05/16 16:58	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50		ug/L			12/05/16 16:58	100
1,2,4-Trimethylbenzene	2600		50		ug/L			12/05/16 16:58	100
1,3,5-Trimethylbenzene	580		50		ug/L			12/05/16 16:58	100
Vinyl acetate	ND		1000		ug/L			12/05/16 16:58	100
Vinyl chloride	ND		50		ug/L			12/05/16 16:58	100
Xylenes, Total	24000		100		ug/L			12/05/16 16:58	100
2,2-Dichloropropane	ND		50		ug/L			12/05/16 16:58	100
Gasoline Range Organics (GRO)	63000		5000		ug/L			12/05/16 16:58	100
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		67 - 130		12/05/16 16:58	100
1,2-Dichloroethane-d4 (Surr)	86		72 - 130		12/05/16 16:58	100
Toluene-d8 (Surr)	93		70 - 130		12/05/16 16:58	100

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			12/03/16 00:42	1
Nitrate as NO3	ND		1.0		mg/L			12/03/16 00:42	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.2		1.0		mg/L		12/06/16 09:46	12/06/16 20:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	0.50		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	1.7		0.10		mg/L			12/02/16 13:58	1
Ammonia	0.43		0.20		mg/L		12/06/16 16:30	12/06/16 19:23	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-7R

Date Collected: 12/02/16 15:22

Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-7

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		250		ug/L			12/05/16 17:27	500
Acetone	ND		25000		ug/L			12/05/16 17:27	500
Benzene	ND		250		ug/L			12/05/16 17:27	500
Dichlorobromomethane	ND		250		ug/L			12/05/16 17:27	500
Bromobenzene	ND		500		ug/L			12/05/16 17:27	500
Chlorobromomethane	ND		500		ug/L			12/05/16 17:27	500
Bromoform	ND		500		ug/L			12/05/16 17:27	500
Bromomethane	ND		500		ug/L			12/05/16 17:27	500
2-Butanone (MEK)	ND		25000		ug/L			12/05/16 17:27	500
n-Butylbenzene	ND		500		ug/L			12/05/16 17:27	500
sec-Butylbenzene	ND		500		ug/L			12/05/16 17:27	500
tert-Butylbenzene	ND		500		ug/L			12/05/16 17:27	500
Carbon disulfide	ND		2500		ug/L			12/05/16 17:27	500
Carbon tetrachloride	ND		250		ug/L			12/05/16 17:27	500
Chlorobenzene	ND		250		ug/L			12/05/16 17:27	500
Chloroethane	ND		500		ug/L			12/05/16 17:27	500
Chloroform	ND		500		ug/L			12/05/16 17:27	500
Chloromethane	ND		500		ug/L			12/05/16 17:27	500
2-Chlorotoluene	ND		250		ug/L			12/05/16 17:27	500
4-Chlorotoluene	ND		250		ug/L			12/05/16 17:27	500
Chlorodibromomethane	ND		250		ug/L			12/05/16 17:27	500
1,2-Dichlorobenzene	ND		250		ug/L			12/05/16 17:27	500
1,3-Dichlorobenzene	ND		250		ug/L			12/05/16 17:27	500
1,4-Dichlorobenzene	ND		250		ug/L			12/05/16 17:27	500
1,3-Dichloropropane	ND		500		ug/L			12/05/16 17:27	500
1,1-Dichloropropene	ND		250		ug/L			12/05/16 17:27	500
1,2-Dibromo-3-Chloropropane	ND		500		ug/L			12/05/16 17:27	500
Ethylene Dibromide	ND		250		ug/L			12/05/16 17:27	500
Dibromomethane	ND		250		ug/L			12/05/16 17:27	500
Dichlorodifluoromethane	ND		250		ug/L			12/05/16 17:27	500
1,1-Dichloroethane	ND		250		ug/L			12/05/16 17:27	500
1,2-Dichloroethane	ND		250		ug/L			12/05/16 17:27	500
1,1-Dichloroethene	ND		250		ug/L			12/05/16 17:27	500
cis-1,2-Dichloroethene	ND		250		ug/L			12/05/16 17:27	500
trans-1,2-Dichloroethene	ND		250		ug/L			12/05/16 17:27	500
1,2-Dichloropropane	ND		250		ug/L			12/05/16 17:27	500
cis-1,3-Dichloropropene	ND		250		ug/L			12/05/16 17:27	500
trans-1,3-Dichloropropene	ND		250		ug/L			12/05/16 17:27	500
Ethylbenzene	1600		250		ug/L			12/05/16 17:27	500
Hexachlorobutadiene	ND		500		ug/L			12/05/16 17:27	500
2-Hexanone	ND		25000		ug/L			12/05/16 17:27	500
Isopropylbenzene	ND		250		ug/L			12/05/16 17:27	500
4-Isopropyltoluene	ND		500		ug/L			12/05/16 17:27	500
Methylene Chloride	ND		2500		ug/L			12/05/16 17:27	500
4-Methyl-2-pentanone (MIBK)	ND		25000		ug/L			12/05/16 17:27	500
Naphthalene	560		500		ug/L			12/05/16 17:27	500
N-Propylbenzene	ND		500		ug/L			12/05/16 17:27	500
Styrene	ND		250		ug/L			12/05/16 17:27	500
1,1,1,2-Tetrachloroethane	ND		250		ug/L			12/05/16 17:27	500

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-7R

Lab Sample ID: 720-76149-7

Date Collected: 12/02/16 15:22

Matrix: Water

Date Received: 12/02/16 16:45

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		250		ug/L			12/05/16 17:27	500
Tetrachloroethene	ND		250		ug/L			12/05/16 17:27	500
Toluene	7300		250		ug/L			12/05/16 17:27	500
1,2,3-Trichlorobenzene	ND		500		ug/L			12/05/16 17:27	500
1,2,4-Trichlorobenzene	ND		500		ug/L			12/05/16 17:27	500
1,1,1-Trichloroethane	ND		250		ug/L			12/05/16 17:27	500
1,1,2-Trichloroethane	ND		250		ug/L			12/05/16 17:27	500
Trichloroethene	ND		250		ug/L			12/05/16 17:27	500
Trichlorofluoromethane	ND		500		ug/L			12/05/16 17:27	500
1,2,3-Trichloropropane	ND		250		ug/L			12/05/16 17:27	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250		ug/L			12/05/16 17:27	500
1,2,4-Trimethylbenzene	1800		250		ug/L			12/05/16 17:27	500
1,3,5-Trimethylbenzene	450		250		ug/L			12/05/16 17:27	500
Vinyl acetate	ND		5000		ug/L			12/05/16 17:27	500
Vinyl chloride	ND		250		ug/L			12/05/16 17:27	500
Xylenes, Total	16000		500		ug/L			12/05/16 17:27	500
2,2-Dichloropropane	ND		250		ug/L			12/05/16 17:27	500
Gasoline Range Organics (GRO)	40000		25000		ug/L			12/05/16 17:27	500
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		67 - 130		12/05/16 17:27	500
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		12/05/16 17:27	500
Toluene-d8 (Surr)	92		70 - 130		12/05/16 17:27	500

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			12/03/16 01:34	1
Nitrate as NO3	1.0		1.0		mg/L			12/03/16 01:34	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.9		1.0		mg/L		12/06/16 09:46	12/06/16 20:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	1.5		0.10		mg/L			12/07/16 14:43	1
Ferrous Iron	2.4		0.10		mg/L			12/02/16 13:58	1
Ammonia	0.86		0.20		mg/L		12/06/16 16:30	12/06/16 19:26	1

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (67-130)	12DCE (72-130)	TOL (70-130)
720-76149-1	MW-8	98	87	96
720-76149-1 MS	MW-8	97	84	96
720-76149-1 MSD	MW-8	86	85	96
720-76149-2	MW-6R	92	89	94
720-76149-3	MW-12	89	87	92
720-76149-4	MW-4R	95	87	95
720-76149-4	MW-4R	91	85	92
720-76149-5	MW-11R	89	85	92
720-76149-5	MW-11R	90	83	92
720-76149-6	MW-5R	92	86	93
720-76149-7	MW-7R	88	88	92
LCS 720-214165/6	Lab Control Sample	91	82	94
LCS 720-214165/8	Lab Control Sample	90	83	94
LCS 720-214235/5	Lab Control Sample	91	82	94
LCS 720-214235/7	Lab Control Sample	91	85	94
LCSD 720-214165/7	Lab Control Sample Dup	91	85	94
LCSD 720-214165/9	Lab Control Sample Dup	89	86	95
LCSD 720-214235/6	Lab Control Sample Dup	93	81	92
LCSD 720-214235/8	Lab Control Sample Dup	91	84	94
MB 720-214165/5	Method Blank	87	84	92
MB 720-214235/4	Method Blank	90	85	92

Surrogate Legend

BFB = 4-Bromofluorobenzene

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Lab Sample ID: MB 720-214165/5
Matrix: Water
Analysis Batch: 214165

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			12/05/16 09:13	1
Acetone	ND		50		ug/L			12/05/16 09:13	1
Benzene	ND		0.50		ug/L			12/05/16 09:13	1
Dichlorobromomethane	ND		0.50		ug/L			12/05/16 09:13	1
Bromobenzene	ND		1.0		ug/L			12/05/16 09:13	1
Chlorobromomethane	ND		1.0		ug/L			12/05/16 09:13	1
Bromoform	ND		1.0		ug/L			12/05/16 09:13	1
Bromomethane	ND		1.0		ug/L			12/05/16 09:13	1
2-Butanone (MEK)	ND		50		ug/L			12/05/16 09:13	1
n-Butylbenzene	ND		1.0		ug/L			12/05/16 09:13	1
sec-Butylbenzene	ND		1.0		ug/L			12/05/16 09:13	1
tert-Butylbenzene	ND		1.0		ug/L			12/05/16 09:13	1
Carbon disulfide	ND		5.0		ug/L			12/05/16 09:13	1
Carbon tetrachloride	ND		0.50		ug/L			12/05/16 09:13	1
Chlorobenzene	ND		0.50		ug/L			12/05/16 09:13	1
Chloroethane	ND		1.0		ug/L			12/05/16 09:13	1
Chloroform	ND		1.0		ug/L			12/05/16 09:13	1
Chloromethane	ND		1.0		ug/L			12/05/16 09:13	1
2-Chlorotoluene	ND		0.50		ug/L			12/05/16 09:13	1
4-Chlorotoluene	ND		0.50		ug/L			12/05/16 09:13	1
Chlorodibromomethane	ND		0.50		ug/L			12/05/16 09:13	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/05/16 09:13	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/05/16 09:13	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/05/16 09:13	1
1,3-Dichloropropane	ND		1.0		ug/L			12/05/16 09:13	1
1,1-Dichloropropene	ND		0.50		ug/L			12/05/16 09:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/05/16 09:13	1
Ethylene Dibromide	ND		0.50		ug/L			12/05/16 09:13	1
Dibromomethane	ND		0.50		ug/L			12/05/16 09:13	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/05/16 09:13	1
1,1-Dichloroethane	ND		0.50		ug/L			12/05/16 09:13	1
1,2-Dichloroethane	ND		0.50		ug/L			12/05/16 09:13	1
1,1-Dichloroethene	ND		0.50		ug/L			12/05/16 09:13	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/05/16 09:13	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/05/16 09:13	1
1,2-Dichloropropane	ND		0.50		ug/L			12/05/16 09:13	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/05/16 09:13	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/05/16 09:13	1
Ethylbenzene	ND		0.50		ug/L			12/05/16 09:13	1
Hexachlorobutadiene	ND		1.0		ug/L			12/05/16 09:13	1
2-Hexanone	ND		50		ug/L			12/05/16 09:13	1
Isopropylbenzene	ND		0.50		ug/L			12/05/16 09:13	1
4-Isopropyltoluene	ND		1.0		ug/L			12/05/16 09:13	1
Methylene Chloride	ND		5.0		ug/L			12/05/16 09:13	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/05/16 09:13	1
Naphthalene	ND		1.0		ug/L			12/05/16 09:13	1
N-Propylbenzene	ND		1.0		ug/L			12/05/16 09:13	1
Styrene	ND		0.50		ug/L			12/05/16 09:13	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Lab Sample ID: MB 720-214165/5
Matrix: Water
Analysis Batch: 214165

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			12/05/16 09:13	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/05/16 09:13	1
Tetrachloroethene	ND		0.50		ug/L			12/05/16 09:13	1
Toluene	ND		0.50		ug/L			12/05/16 09:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/05/16 09:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/05/16 09:13	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/05/16 09:13	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/05/16 09:13	1
Trichloroethene	ND		0.50		ug/L			12/05/16 09:13	1
Trichlorofluoromethane	ND		1.0		ug/L			12/05/16 09:13	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/05/16 09:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/05/16 09:13	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/05/16 09:13	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/05/16 09:13	1
Vinyl acetate	ND		10		ug/L			12/05/16 09:13	1
Vinyl chloride	ND		0.50		ug/L			12/05/16 09:13	1
Xylenes, Total	ND		1.0		ug/L			12/05/16 09:13	1
2,2-Dichloropropane	ND		0.50		ug/L			12/05/16 09:13	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/05/16 09:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		67 - 130		12/05/16 09:13	1
1,2-Dichloroethane-d4 (Surr)	84		72 - 130		12/05/16 09:13	1
Toluene-d8 (Surr)	92		70 - 130		12/05/16 09:13	1

Lab Sample ID: LCS 720-214165/6
Matrix: Water
Analysis Batch: 214165

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	20.5		ug/L		82	62 - 130
Acetone	125	116		ug/L		92	26 - 180
Benzene	25.0	22.9		ug/L		92	79 - 130
Dichlorobromomethane	25.0	22.5		ug/L		90	70 - 130
Bromobenzene	25.0	21.9		ug/L		88	70 - 130
Chlorobromomethane	25.0	23.2		ug/L		93	70 - 130
Bromoform	25.0	20.9		ug/L		84	68 - 136
Bromomethane	25.0	24.8		ug/L		99	43 - 151
2-Butanone (MEK)	125	104		ug/L		83	54 - 153
n-Butylbenzene	25.0	23.4		ug/L		93	70 - 142
sec-Butylbenzene	25.0	23.8		ug/L		95	70 - 134
tert-Butylbenzene	25.0	23.8		ug/L		95	70 - 135
Carbon disulfide	25.0	21.6		ug/L		86	68 - 146
Carbon tetrachloride	25.0	23.2		ug/L		93	70 - 146
Chlorobenzene	25.0	24.7		ug/L		99	70 - 130
Chloroethane	25.0	27.0		ug/L		108	62 - 138
Chloroform	25.0	22.9		ug/L		91	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Lab Sample ID: LCS 720-214165/6

Matrix: Water

Analysis Batch: 214165

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	27.4		ug/L		110	52 - 175
2-Chlorotoluene	25.0	22.4		ug/L		90	70 - 130
4-Chlorotoluene	25.0	22.5		ug/L		90	70 - 130
Chlorodibromomethane	25.0	21.4		ug/L		86	70 - 145
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,3-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130
1,4-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,3-Dichloropropane	25.0	22.5		ug/L		90	70 - 130
1,1-Dichloropropene	25.0	23.6		ug/L		94	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	19.2		ug/L		77	70 - 136
Ethylene Dibromide	25.0	22.1		ug/L		88	70 - 130
Dibromomethane	25.0	21.7		ug/L		87	70 - 130
Dichlorodifluoromethane	25.0	27.3		ug/L		109	32 - 158
1,1-Dichloroethane	25.0	22.8		ug/L		91	70 - 130
1,2-Dichloroethane	25.0	21.5		ug/L		86	61 - 132
1,1-Dichloroethene	25.0	21.6		ug/L		86	64 - 128
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	70 - 130
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	68 - 130
1,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
cis-1,3-Dichloropropene	25.0	23.6		ug/L		94	70 - 130
trans-1,3-Dichloropropene	25.0	21.0		ug/L		84	70 - 140
Ethylbenzene	25.0	23.9		ug/L		95	80 - 120
Hexachlorobutadiene	25.0	22.5		ug/L		90	70 - 130
2-Hexanone	125	91.2		ug/L		73	60 - 164
Isopropylbenzene	25.0	24.8		ug/L		99	70 - 130
4-Isopropyltoluene	25.0	24.0		ug/L		96	70 - 130
Methylene Chloride	25.0	21.5		ug/L		86	70 - 147
4-Methyl-2-pentanone (MIBK)	125	95.3		ug/L		76	50 - 155
Naphthalene	25.0	20.6		ug/L		83	50 - 130
N-Propylbenzene	25.0	23.1		ug/L		92	70 - 130
Styrene	25.0	23.0		ug/L		92	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.9		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.4		ug/L		86	70 - 130
Tetrachloroethene	25.0	24.7		ug/L		99	70 - 130
Toluene	25.0	24.2		ug/L		97	78 - 120
1,2,3-Trichlorobenzene	25.0	21.2		ug/L		85	70 - 130
1,2,4-Trichlorobenzene	25.0	21.8		ug/L		87	70 - 130
1,1,1-Trichloroethane	25.0	22.3		ug/L		89	70 - 130
1,1,2-Trichloroethane	25.0	21.7		ug/L		87	70 - 130
Trichloroethene	25.0	24.9		ug/L		100	70 - 130
Trichlorofluoromethane	25.0	22.1		ug/L		88	66 - 132
1,2,3-Trichloropropane	25.0	21.0		ug/L		84	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.4		ug/L		90	42 - 162
1,2,4-Trimethylbenzene	25.0	22.8		ug/L		91	70 - 132
1,3,5-Trimethylbenzene	25.0	23.2		ug/L		93	70 - 130
Vinyl acetate	25.0	19.2		ug/L		77	43 - 163
Vinyl chloride	25.0	28.9		ug/L		116	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Lab Sample ID: LCS 720-214165/6
Matrix: Water
Analysis Batch: 214165

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	23.4		ug/L		94	70 - 142
o-Xylene	25.0	23.4		ug/L		94	70 - 130
2,2-Dichloropropane	25.0	24.6		ug/L		98	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	91		67 - 130
1,2-Dichloroethane-d4 (Surr)	82		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCS 720-214165/8
Matrix: Water
Analysis Batch: 214165

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	434		ug/L		87	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	90		67 - 130
1,2-Dichloroethane-d4 (Surr)	83		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 720-214165/7
Matrix: Water
Analysis Batch: 214165

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	22.4		ug/L		90	62 - 130	9	20
Acetone	125	127		ug/L		102	26 - 180	10	30
Benzene	25.0	23.1		ug/L		93	79 - 130	1	20
Dichlorobromomethane	25.0	23.3		ug/L		93	70 - 130	4	20
Bromobenzene	25.0	23.0		ug/L		92	70 - 130	5	20
Chlorobromomethane	25.0	24.3		ug/L		97	70 - 130	5	20
Bromoform	25.0	22.4		ug/L		90	68 - 136	7	20
Bromomethane	25.0	24.4		ug/L		98	43 - 151	2	20
2-Butanone (MEK)	125	114		ug/L		92	54 - 153	9	20
n-Butylbenzene	25.0	23.2		ug/L		93	70 - 142	1	20
sec-Butylbenzene	25.0	23.7		ug/L		95	70 - 134	1	20
tert-Butylbenzene	25.0	24.0		ug/L		96	70 - 135	1	20
Carbon disulfide	25.0	20.9		ug/L		83	68 - 146	3	20
Carbon tetrachloride	25.0	23.0		ug/L		92	70 - 146	1	20
Chlorobenzene	25.0	24.8		ug/L		99	70 - 130	0	20
Chloroethane	25.0	26.5		ug/L		106	62 - 138	2	20
Chloroform	25.0	23.3		ug/L		93	70 - 130	2	20
Chloromethane	25.0	26.8		ug/L		107	52 - 175	2	20
2-Chlorotoluene	25.0	22.5		ug/L		90	70 - 130	1	20
4-Chlorotoluene	25.0	22.7		ug/L		91	70 - 130	1	20
Chlorodibromomethane	25.0	22.6		ug/L		90	70 - 145	5	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Lab Sample ID: LCSD 720-214165/7

Matrix: Water

Analysis Batch: 214165

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	23.5		ug/L		94	70 - 130	2	20
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130	0	20
1,4-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130	1	20
1,3-Dichloropropane	25.0	24.0		ug/L		96	70 - 130	7	20
1,1-Dichloropropene	25.0	23.4		ug/L		93	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	20.6		ug/L		82	70 - 136	7	20
Ethylene Dibromide	25.0	23.3		ug/L		93	70 - 130	5	20
Dibromomethane	25.0	22.9		ug/L		92	70 - 130	6	20
Dichlorodifluoromethane	25.0	26.0		ug/L		104	32 - 158	5	20
1,1-Dichloroethane	25.0	23.0		ug/L		92	70 - 130	1	20
1,2-Dichloroethane	25.0	22.4		ug/L		90	61 - 132	4	20
1,1-Dichloroethene	25.0	21.4		ug/L		86	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	23.6		ug/L		94	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	68 - 130	0	20
1,2-Dichloropropane	25.0	25.7		ug/L		103	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	24.5		ug/L		98	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	22.2		ug/L		89	70 - 140	6	20
Ethylbenzene	25.0	23.6		ug/L		94	80 - 120	1	20
Hexachlorobutadiene	25.0	22.7		ug/L		91	70 - 130	1	20
2-Hexanone	125	101		ug/L		81	60 - 164	10	20
Isopropylbenzene	25.0	24.4		ug/L		98	70 - 130	1	20
4-Isopropyltoluene	25.0	23.9		ug/L		96	70 - 130	1	20
Methylene Chloride	25.0	22.1		ug/L		88	70 - 147	3	20
4-Methyl-2-pentanone (MIBK)	125	104		ug/L		83	50 - 155	9	20
Naphthalene	25.0	22.4		ug/L		90	50 - 130	8	20
N-Propylbenzene	25.0	23.2		ug/L		93	70 - 130	0	20
Styrene	25.0	23.4		ug/L		94	70 - 130	2	20
1,1,1,2-Tetrachloroethane	25.0	24.3		ug/L		97	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		94	70 - 130	10	20
Tetrachloroethene	25.0	24.5		ug/L		98	70 - 130	1	20
Toluene	25.0	24.0		ug/L		96	78 - 120	1	20
1,2,3-Trichlorobenzene	25.0	21.9		ug/L		88	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	22.2		ug/L		89	70 - 130	2	20
1,1,1-Trichloroethane	25.0	21.9		ug/L		88	70 - 130	2	20
1,1,2-Trichloroethane	25.0	23.1		ug/L		93	70 - 130	6	20
Trichloroethene	25.0	25.1		ug/L		100	70 - 130	1	20
Trichlorofluoromethane	25.0	21.6		ug/L		86	66 - 132	2	20
1,2,3-Trichloropropane	25.0	23.0		ug/L		92	70 - 130	9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.0		ug/L		88	42 - 162	2	20
1,2,4-Trimethylbenzene	25.0	22.9		ug/L		91	70 - 132	0	20
1,3,5-Trimethylbenzene	25.0	23.3		ug/L		93	70 - 130	0	20
Vinyl acetate	25.0	20.3		ug/L		81	43 - 163	5	20
Vinyl chloride	25.0	27.7		ug/L		111	54 - 135	4	20
m-Xylene & p-Xylene	25.0	23.1		ug/L		92	70 - 142	1	20
o-Xylene	25.0	23.4		ug/L		93	70 - 130	0	20
2,2-Dichloropropane	25.0	23.0		ug/L		92	70 - 140	6	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Lab Sample ID: LCSD 720-214165/7

Matrix: Water

Analysis Batch: 214165

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)	85		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 720-214165/9

Matrix: Water

Analysis Batch: 214165

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	438		ug/L		88	71 - 125	1	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	89		67 - 130
1,2-Dichloroethane-d4 (Surr)	86		72 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: 720-76149-1 MS

Matrix: Water

Analysis Batch: 214165

Client Sample ID: MW-8

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Methyl tert-butyl ether	ND		25.0	21.8		ug/L		87	60 - 138
Acetone	ND		125	143		ug/L		86	60 - 140
Benzene	21		25.0	44.5		ug/L		96	60 - 140
Dichlorobromomethane	ND		25.0	23.6		ug/L		94	60 - 140
Bromobenzene	ND		25.0	23.6		ug/L		94	60 - 140
Chlorobromomethane	ND		25.0	24.0		ug/L		96	60 - 140
Bromoform	ND		25.0	21.6		ug/L		86	56 - 140
Bromomethane	ND		25.0	22.6		ug/L		90	23 - 140
2-Butanone (MEK)	ND		125	111		ug/L		89	60 - 140
n-Butylbenzene	2.5		25.0	24.5		ug/L		88	60 - 140
sec-Butylbenzene	4.3		25.0	28.4		ug/L		96	60 - 140
tert-Butylbenzene	ND		25.0	25.5		ug/L		100	60 - 140
Carbon disulfide	ND		25.0	21.6		ug/L		87	38 - 140
Carbon tetrachloride	ND		25.0	22.3		ug/L		89	60 - 140
Chlorobenzene	ND		25.0	24.7		ug/L		99	60 - 140
Chloroethane	ND		25.0	26.8		ug/L		107	51 - 140
Chloroform	ND		25.0	23.5		ug/L		94	60 - 140
Chloromethane	ND		25.0	23.5		ug/L		94	52 - 140
2-Chlorotoluene	ND		25.0	23.3		ug/L		93	60 - 140
4-Chlorotoluene	ND		25.0	23.2		ug/L		93	60 - 140
Chlorodibromomethane	ND		25.0	22.2		ug/L		89	60 - 140
1,2-Dichlorobenzene	ND		25.0	24.2		ug/L		97	60 - 140
1,3-Dichlorobenzene	ND		25.0	23.5		ug/L		94	60 - 140
1,4-Dichlorobenzene	ND		25.0	23.1		ug/L		92	60 - 140
1,3-Dichloropropane	ND		25.0	23.7		ug/L		95	60 - 140
1,1-Dichloropropene	ND		25.0	22.5		ug/L		90	60 - 140

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Lab Sample ID: 720-76149-1 MS

Matrix: Water

Analysis Batch: 214165

Client Sample ID: MW-8

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	20.7		ug/L		83	60 - 140
Ethylene Dibromide	ND		25.0	22.9		ug/L		91	60 - 140
Dibromomethane	ND		25.0	23.1		ug/L		92	60 - 140
Dichlorodifluoromethane	ND		25.0	25.3		ug/L		101	38 - 140
1,1-Dichloroethane	ND		25.0	23.1		ug/L		92	60 - 140
1,2-Dichloroethane	ND		25.0	21.8		ug/L		87	60 - 140
1,1-Dichloroethene	ND		25.0	21.9		ug/L		88	60 - 140
cis-1,2-Dichloroethene	ND		25.0	23.7		ug/L		95	60 - 140
trans-1,2-Dichloroethene	ND		25.0	22.8		ug/L		91	60 - 140
1,2-Dichloropropane	ND		25.0	27.1		ug/L		108	60 - 140
cis-1,3-Dichloropropene	ND		25.0	23.8		ug/L		95	60 - 140
trans-1,3-Dichloropropene	ND		25.0	21.2		ug/L		85	60 - 140
Ethylbenzene	2.8		25.0	26.4		ug/L		94	60 - 140
Hexachlorobutadiene	ND		25.0	21.8		ug/L		87	60 - 140
2-Hexanone	ND		125	93.8		ug/L		75	60 - 140
Isopropylbenzene	24		25.0	49.5		ug/L		101	60 - 140
4-Isopropyltoluene	ND		25.0	23.6		ug/L		93	60 - 140
Methylene Chloride	ND		25.0	22.3		ug/L		89	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	98.1		ug/L		79	58 - 130
Naphthalene	68		25.0	86.7		ug/L		74	56 - 140
N-Propylbenzene	25		25.0	49.7		ug/L		98	60 - 140
Styrene	ND		25.0	23.9		ug/L		96	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	24.6		ug/L		99	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	23.6		ug/L		94	60 - 140
Tetrachloroethene	ND		25.0	23.1		ug/L		92	60 - 140
Toluene	9.4		25.0	33.7		ug/L		97	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	21.6		ug/L		86	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	21.3		ug/L		85	60 - 140
1,1,1-Trichloroethane	ND		25.0	21.1		ug/L		84	60 - 140
1,1,2-Trichloroethane	ND		25.0	24.7		ug/L		99	60 - 140
Trichloroethene	ND		25.0	24.5		ug/L		98	60 - 140
Trichlorofluoromethane	ND		25.0	20.9		ug/L		84	60 - 140
1,2,3-Trichloropropane	ND		25.0	22.9		ug/L		92	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	23.3		ug/L		93	60 - 140
1,3,5-Trimethylbenzene	0.88		25.0	24.5		ug/L		95	60 - 140
Vinyl acetate	ND	F1	25.0	35.9	F1	ug/L		144	40 - 140
Vinyl chloride	ND		25.0	26.7		ug/L		107	58 - 140
m-Xylene & p-Xylene	16		25.0	39.3		ug/L		95	60 - 140
o-Xylene	0.87		25.0	24.1		ug/L		93	60 - 140
2,2-Dichloropropane	ND		25.0	20.1		ug/L		81	60 - 140

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	84		72 - 130
Toluene-d8 (Surr)	96		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Lab Sample ID: 720-76149-1 MSD
Matrix: Water
Analysis Batch: 214165

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Result			Result					Limits		
Methyl tert-butyl ether	ND		25.0	22.6		ug/L		90	60 - 138	4	20
Acetone	ND		125	149		ug/L		90	60 - 140	4	20
Benzene	21		25.0	44.4		ug/L		95	60 - 140	0	20
Dichlorobromomethane	ND		25.0	23.9		ug/L		96	60 - 140	1	20
Bromobenzene	ND		25.0	23.8		ug/L		95	60 - 140	1	20
Chlorobromomethane	ND		25.0	24.6		ug/L		98	60 - 140	2	20
Bromoform	ND		25.0	22.1		ug/L		89	56 - 140	3	20
Bromomethane	ND		25.0	22.8		ug/L		91	23 - 140	1	20
2-Butanone (MEK)	ND		125	114		ug/L		91	60 - 140	2	20
n-Butylbenzene	2.5		25.0	24.7		ug/L		89	60 - 140	1	20
sec-Butylbenzene	4.3		25.0	28.1		ug/L		95	60 - 140	1	20
tert-Butylbenzene	ND		25.0	25.1		ug/L		99	60 - 140	1	20
Carbon disulfide	ND		25.0	21.6		ug/L		86	38 - 140	0	20
Carbon tetrachloride	ND		25.0	22.5		ug/L		90	60 - 140	1	20
Chlorobenzene	ND		25.0	25.0		ug/L		100	60 - 140	1	20
Chloroethane	ND		25.0	26.4		ug/L		106	51 - 140	1	20
Chloroform	ND		25.0	23.6		ug/L		95	60 - 140	1	20
Chloromethane	ND		25.0	22.8		ug/L		91	52 - 140	3	20
2-Chlorotoluene	ND		25.0	23.1		ug/L		92	60 - 140	1	20
4-Chlorotoluene	ND		25.0	23.2		ug/L		93	60 - 140	0	20
Chlorodibromomethane	ND		25.0	22.6		ug/L		91	60 - 140	2	20
1,2-Dichlorobenzene	ND		25.0	24.5		ug/L		98	60 - 140	1	20
1,3-Dichlorobenzene	ND		25.0	23.7		ug/L		95	60 - 140	1	20
1,4-Dichlorobenzene	ND		25.0	23.6		ug/L		95	60 - 140	2	20
1,3-Dichloropropane	ND		25.0	24.1		ug/L		96	60 - 140	2	20
1,1-Dichloropropene	ND		25.0	22.6		ug/L		90	60 - 140	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	21.3		ug/L		85	60 - 140	3	20
Ethylene Dibromide	ND		25.0	23.5		ug/L		94	60 - 140	3	20
Dibromomethane	ND		25.0	23.3		ug/L		93	60 - 140	1	20
Dichlorodifluoromethane	ND		25.0	24.7		ug/L		99	38 - 140	2	20
1,1-Dichloroethane	ND		25.0	23.5		ug/L		94	60 - 140	2	20
1,2-Dichloroethane	ND		25.0	22.3		ug/L		89	60 - 140	2	20
1,1-Dichloroethene	ND		25.0	22.1		ug/L		88	60 - 140	1	20
cis-1,2-Dichloroethene	ND		25.0	23.8		ug/L		95	60 - 140	1	20
trans-1,2-Dichloroethene	ND		25.0	23.2		ug/L		93	60 - 140	2	20
1,2-Dichloropropane	ND		25.0	27.2		ug/L		109	60 - 140	1	20
cis-1,3-Dichloropropene	ND		25.0	24.2		ug/L		97	60 - 140	2	20
trans-1,3-Dichloropropene	ND		25.0	21.7		ug/L		87	60 - 140	2	20
Ethylbenzene	2.8		25.0	26.3		ug/L		94	60 - 140	0	20
Hexachlorobutadiene	ND		25.0	21.8		ug/L		87	60 - 140	0	20
2-Hexanone	ND		125	98.0		ug/L		78	60 - 140	4	20
Isopropylbenzene	24		25.0	48.8		ug/L		98	60 - 140	2	20
4-Isopropyltoluene	ND		25.0	23.5		ug/L		93	60 - 140	0	20
Methylene Chloride	ND		25.0	22.5		ug/L		90	40 - 140	1	20
4-Methyl-2-pentanone (MIBK)	ND		125	99.8		ug/L		80	58 - 130	2	20
Naphthalene	68		25.0	88.5		ug/L		81	56 - 140	2	20
N-Propylbenzene	25		25.0	48.8		ug/L		94	60 - 140	2	20
Styrene	ND		25.0	24.0		ug/L		96	60 - 140	0	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Lab Sample ID: 720-76149-1 MSD
Matrix: Water
Analysis Batch: 214165

Client Sample ID: MW-8
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	24.8		ug/L		99	60 - 140	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.2		ug/L		96	60 - 140	2	20
Tetrachloroethene	ND		25.0	23.4		ug/L		94	60 - 140	1	20
Toluene	9.4		25.0	33.5		ug/L		97	60 - 140	0	20
1,2,3-Trichlorobenzene	ND		25.0	22.5		ug/L		90	60 - 140	4	20
1,2,4-Trichlorobenzene	ND		25.0	22.2		ug/L		89	60 - 140	4	20
1,1,1-Trichloroethane	ND		25.0	21.2		ug/L		85	60 - 140	0	20
1,1,2-Trichloroethane	ND		25.0	25.5		ug/L		102	60 - 140	3	20
Trichloroethene	ND		25.0	24.6		ug/L		98	60 - 140	0	20
Trichlorofluoromethane	ND		25.0	21.4		ug/L		85	60 - 140	2	20
1,2,3-Trichloropropane	ND		25.0	23.3		ug/L		93	60 - 140	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	21.9		ug/L		88	60 - 140	0	20
1,2,4-Trimethylbenzene	ND		25.0	23.2		ug/L		93	60 - 140	0	20
1,3,5-Trimethylbenzene	0.88		25.0	24.5		ug/L		95	60 - 140	0	20
Vinyl acetate	ND	F1	25.0	35.8	F1	ug/L		143	40 - 140	0	20
Vinyl chloride	ND		25.0	26.2		ug/L		105	58 - 140	2	20
m-Xylene & p-Xylene	16		25.0	38.8		ug/L		93	60 - 140	1	20
o-Xylene	0.87		25.0	24.2		ug/L		93	60 - 140	0	20
2,2-Dichloropropane	ND		25.0	19.2		ug/L		77	60 - 140	5	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene	86		67 - 130
1,2-Dichloroethane-d4 (Surr)	85		72 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: MB 720-214235/4
Matrix: Water
Analysis Batch: 214235

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			12/06/16 08:44	1
Acetone	ND		50		ug/L			12/06/16 08:44	1
Benzene	ND		0.50		ug/L			12/06/16 08:44	1
Dichlorobromomethane	ND		0.50		ug/L			12/06/16 08:44	1
Bromobenzene	ND		1.0		ug/L			12/06/16 08:44	1
Chlorobromomethane	ND		1.0		ug/L			12/06/16 08:44	1
Bromoform	ND		1.0		ug/L			12/06/16 08:44	1
Bromomethane	ND		1.0		ug/L			12/06/16 08:44	1
2-Butanone (MEK)	ND		50		ug/L			12/06/16 08:44	1
n-Butylbenzene	ND		1.0		ug/L			12/06/16 08:44	1
sec-Butylbenzene	ND		1.0		ug/L			12/06/16 08:44	1
tert-Butylbenzene	ND		1.0		ug/L			12/06/16 08:44	1
Carbon disulfide	ND		5.0		ug/L			12/06/16 08:44	1
Carbon tetrachloride	ND		0.50		ug/L			12/06/16 08:44	1
Chlorobenzene	ND		0.50		ug/L			12/06/16 08:44	1
Chloroethane	ND		1.0		ug/L			12/06/16 08:44	1
Chloroform	ND		1.0		ug/L			12/06/16 08:44	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Lab Sample ID: MB 720-214235/4
Matrix: Water
Analysis Batch: 214235

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0		ug/L			12/06/16 08:44	1
2-Chlorotoluene	ND		0.50		ug/L			12/06/16 08:44	1
4-Chlorotoluene	ND		0.50		ug/L			12/06/16 08:44	1
Chlorodibromomethane	ND		0.50		ug/L			12/06/16 08:44	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/06/16 08:44	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/06/16 08:44	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/06/16 08:44	1
1,3-Dichloropropane	ND		1.0		ug/L			12/06/16 08:44	1
1,1-Dichloropropene	ND		0.50		ug/L			12/06/16 08:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/06/16 08:44	1
Ethylene Dibromide	ND		0.50		ug/L			12/06/16 08:44	1
Dibromomethane	ND		0.50		ug/L			12/06/16 08:44	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/06/16 08:44	1
1,1-Dichloroethane	ND		0.50		ug/L			12/06/16 08:44	1
1,2-Dichloroethane	ND		0.50		ug/L			12/06/16 08:44	1
1,1-Dichloroethene	ND		0.50		ug/L			12/06/16 08:44	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/06/16 08:44	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/06/16 08:44	1
1,2-Dichloropropane	ND		0.50		ug/L			12/06/16 08:44	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/06/16 08:44	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/06/16 08:44	1
Ethylbenzene	ND		0.50		ug/L			12/06/16 08:44	1
Hexachlorobutadiene	ND		1.0		ug/L			12/06/16 08:44	1
2-Hexanone	ND		50		ug/L			12/06/16 08:44	1
Isopropylbenzene	ND		0.50		ug/L			12/06/16 08:44	1
4-Isopropyltoluene	ND		1.0		ug/L			12/06/16 08:44	1
Methylene Chloride	ND		5.0		ug/L			12/06/16 08:44	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/06/16 08:44	1
Naphthalene	ND		1.0		ug/L			12/06/16 08:44	1
N-Propylbenzene	ND		1.0		ug/L			12/06/16 08:44	1
Styrene	ND		0.50		ug/L			12/06/16 08:44	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/06/16 08:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/06/16 08:44	1
Tetrachloroethene	ND		0.50		ug/L			12/06/16 08:44	1
Toluene	ND		0.50		ug/L			12/06/16 08:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/06/16 08:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/06/16 08:44	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/06/16 08:44	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/06/16 08:44	1
Trichloroethene	ND		0.50		ug/L			12/06/16 08:44	1
Trichlorofluoromethane	ND		1.0		ug/L			12/06/16 08:44	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/06/16 08:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/06/16 08:44	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/06/16 08:44	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/06/16 08:44	1
Vinyl acetate	ND		10		ug/L			12/06/16 08:44	1
Vinyl chloride	ND		0.50		ug/L			12/06/16 08:44	1
Xylenes, Total	ND		1.0		ug/L			12/06/16 08:44	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Lab Sample ID: MB 720-214235/4
Matrix: Water
Analysis Batch: 214235

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		0.50		ug/L			12/06/16 08:44	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/06/16 08:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		67 - 130		12/06/16 08:44	1
1,2-Dichloroethane-d4 (Surr)	85		72 - 130		12/06/16 08:44	1
Toluene-d8 (Surr)	92		70 - 130		12/06/16 08:44	1

Lab Sample ID: LCS 720-214235/5
Matrix: Water
Analysis Batch: 214235

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	20.4		ug/L		81	62 - 130
Acetone	125	124		ug/L		100	26 - 180
Benzene	25.0	22.9		ug/L		91	79 - 130
Dichlorobromomethane	25.0	22.1		ug/L		88	70 - 130
Bromobenzene	25.0	22.6		ug/L		90	70 - 130
Chlorobromomethane	25.0	23.5		ug/L		94	70 - 130
Bromoform	25.0	21.2		ug/L		85	68 - 136
Bromomethane	25.0	26.1		ug/L		104	43 - 151
2-Butanone (MEK)	125	108		ug/L		86	54 - 153
n-Butylbenzene	25.0	23.5		ug/L		94	70 - 142
sec-Butylbenzene	25.0	24.0		ug/L		96	70 - 134
tert-Butylbenzene	25.0	24.3		ug/L		97	70 - 135
Carbon disulfide	25.0	22.4		ug/L		89	68 - 146
Carbon tetrachloride	25.0	23.8		ug/L		95	70 - 146
Chlorobenzene	25.0	24.8		ug/L		99	70 - 130
Chloroethane	25.0	28.2		ug/L		113	62 - 138
Chloroform	25.0	22.7		ug/L		91	70 - 130
Chloromethane	25.0	26.5		ug/L		106	52 - 175
2-Chlorotoluene	25.0	22.6		ug/L		91	70 - 130
4-Chlorotoluene	25.0	22.6		ug/L		90	70 - 130
Chlorodibromomethane	25.0	21.1		ug/L		84	70 - 145
1,2-Dichlorobenzene	25.0	22.9		ug/L		91	70 - 130
1,3-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,3-Dichloropropane	25.0	22.4		ug/L		89	70 - 130
1,1-Dichloropropene	25.0	23.9		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	19.2		ug/L		77	70 - 136
Ethylene Dibromide	25.0	21.8		ug/L		87	70 - 130
Dibromomethane	25.0	22.0		ug/L		88	70 - 130
Dichlorodifluoromethane	25.0	26.7		ug/L		107	32 - 158
1,1-Dichloroethane	25.0	22.9		ug/L		92	70 - 130
1,2-Dichloroethane	25.0	21.3		ug/L		85	61 - 132
1,1-Dichloroethene	25.0	22.7		ug/L		91	64 - 128
cis-1,2-Dichloroethene	25.0	23.1		ug/L		93	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Lab Sample ID: LCS 720-214235/5
Matrix: Water
Analysis Batch: 214235

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	68 - 130
1,2-Dichloropropane	25.0	24.6		ug/L		98	70 - 130
cis-1,3-Dichloropropene	25.0	23.0		ug/L		92	70 - 130
trans-1,3-Dichloropropene	25.0	20.5		ug/L		82	70 - 140
Ethylbenzene	25.0	24.2		ug/L		97	80 - 120
Hexachlorobutadiene	25.0	23.0		ug/L		92	70 - 130
2-Hexanone	125	87.8		ug/L		70	60 - 164
Isopropylbenzene	25.0	25.1		ug/L		100	70 - 130
4-Isopropyltoluene	25.0	24.2		ug/L		97	70 - 130
Methylene Chloride	25.0	22.1		ug/L		88	70 - 147
4-Methyl-2-pentanone (MIBK)	125	91.3		ug/L		73	50 - 155
Naphthalene	25.0	20.6		ug/L		82	50 - 130
N-Propylbenzene	25.0	23.5		ug/L		94	70 - 130
Styrene	25.0	23.0		ug/L		92	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.9		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.8		ug/L		87	70 - 130
Tetrachloroethene	25.0	25.1		ug/L		100	70 - 130
Toluene	25.0	24.3		ug/L		97	78 - 120
1,2,3-Trichlorobenzene	25.0	20.8		ug/L		83	70 - 130
1,2,4-Trichlorobenzene	25.0	21.6		ug/L		86	70 - 130
1,1,1-Trichloroethane	25.0	22.9		ug/L		91	70 - 130
1,1,2-Trichloroethane	25.0	21.6		ug/L		86	70 - 130
Trichloroethene	25.0	25.2		ug/L		101	70 - 130
Trichlorofluoromethane	25.0	23.9		ug/L		95	66 - 132
1,2,3-Trichloropropane	25.0	22.0		ug/L		88	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.8		ug/L		95	42 - 162
1,2,4-Trimethylbenzene	25.0	22.9		ug/L		92	70 - 132
1,3,5-Trimethylbenzene	25.0	23.3		ug/L		93	70 - 130
Vinyl acetate	25.0	19.2		ug/L		77	43 - 163
Vinyl chloride	25.0	29.8		ug/L		119	54 - 135
m-Xylene & p-Xylene	25.0	23.7		ug/L		95	70 - 142
o-Xylene	25.0	23.3		ug/L		93	70 - 130
2,2-Dichloropropane	25.0	25.3		ug/L		101	70 - 140

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	91		67 - 130
1,2-Dichloroethane-d4 (Surr)	82		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCS 720-214235/7
Matrix: Water
Analysis Batch: 214235

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	436		ug/L		87	71 - 125

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Lab Sample ID: LCS 720-214235/7
Matrix: Water
Analysis Batch: 214235

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

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	91		67 - 130
1,2-Dichloroethane-d4 (Surr)	85		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 720-214235/6
Matrix: Water
Analysis Batch: 214235

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	20.6		ug/L		83	62 - 130	1	20
Acetone	125	124		ug/L		99	26 - 180	0	30
Benzene	25.0	23.0		ug/L		92	79 - 130	1	20
Dichlorobromomethane	25.0	22.5		ug/L		90	70 - 130	2	20
Bromobenzene	25.0	22.3		ug/L		89	70 - 130	1	20
Chlorobromomethane	25.0	23.8		ug/L		95	70 - 130	1	20
Bromoform	25.0	21.8		ug/L		87	68 - 136	2	20
Bromomethane	25.0	26.1		ug/L		104	43 - 151	0	20
2-Butanone (MEK)	125	107		ug/L		86	54 - 153	1	20
n-Butylbenzene	25.0	24.4		ug/L		98	70 - 142	4	20
sec-Butylbenzene	25.0	24.4		ug/L		98	70 - 134	2	20
tert-Butylbenzene	25.0	24.6		ug/L		99	70 - 135	1	20
Carbon disulfide	25.0	22.1		ug/L		88	68 - 146	1	20
Carbon tetrachloride	25.0	23.8		ug/L		95	70 - 146	0	20
Chlorobenzene	25.0	25.0		ug/L		100	70 - 130	1	20
Chloroethane	25.0	28.2		ug/L		113	62 - 138	0	20
Chloroform	25.0	22.8		ug/L		91	70 - 130	1	20
Chloromethane	25.0	26.3		ug/L		105	52 - 175	1	20
2-Chlorotoluene	25.0	22.6		ug/L		90	70 - 130	0	20
4-Chlorotoluene	25.0	22.7		ug/L		91	70 - 130	0	20
Chlorodibromomethane	25.0	21.2		ug/L		85	70 - 145	0	20
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130	1	20
1,3-Dichlorobenzene	25.0	23.6		ug/L		95	70 - 130	0	20
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130	1	20
1,3-Dichloropropane	25.0	22.3		ug/L		89	70 - 130	0	20
1,1-Dichloropropane	25.0	23.8		ug/L		95	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	19.6		ug/L		79	70 - 136	2	20
Ethylene Dibromide	25.0	21.8		ug/L		87	70 - 130	0	20
Dibromomethane	25.0	22.0		ug/L		88	70 - 130	0	20
Dichlorodifluoromethane	25.0	26.2		ug/L		105	32 - 158	2	20
1,1-Dichloroethane	25.0	23.0		ug/L		92	70 - 130	0	20
1,2-Dichloroethane	25.0	21.5		ug/L		86	61 - 132	1	20
1,1-Dichloroethene	25.0	22.9		ug/L		91	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	23.3		ug/L		93	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	68 - 130	0	20
1,2-Dichloropropane	25.0	24.7		ug/L		99	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	23.1		ug/L		92	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	20.7		ug/L		83	70 - 140	1	20
Ethylbenzene	25.0	24.4		ug/L		97	80 - 120	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

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

Lab Sample ID: LCSD 720-214235/6
Matrix: Water
Analysis Batch: 214235

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
Hexachlorobutadiene	25.0	24.0		ug/L		96	70 - 130	4	20
2-Hexanone	125	89.6		ug/L		72	60 - 164	2	20
Isopropylbenzene	25.0	25.7		ug/L		103	70 - 130	2	20
4-Isopropyltoluene	25.0	24.7		ug/L		99	70 - 130	2	20
Methylene Chloride	25.0	22.3		ug/L		89	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	92.8		ug/L		74	50 - 155	2	20
Naphthalene	25.0	21.8		ug/L		87	50 - 130	6	20
N-Propylbenzene	25.0	23.6		ug/L		94	70 - 130	0	20
Styrene	25.0	23.5		ug/L		94	70 - 130	2	20
1,1,1,2-Tetrachloroethane	25.0	24.3		ug/L		97	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	21.9		ug/L		88	70 - 130	1	20
Tetrachloroethene	25.0	24.9		ug/L		100	70 - 130	1	20
Toluene	25.0	24.5		ug/L		98	78 - 120	1	20
1,2,3-Trichlorobenzene	25.0	22.0		ug/L		88	70 - 130	6	20
1,2,4-Trichlorobenzene	25.0	22.3		ug/L		89	70 - 130	3	20
1,1,1-Trichloroethane	25.0	22.7		ug/L		91	70 - 130	1	20
1,1,2-Trichloroethane	25.0	21.6		ug/L		86	70 - 130	0	20
Trichloroethene	25.0	25.1		ug/L		100	70 - 130	0	20
Trichlorofluoromethane	25.0	23.5		ug/L		94	66 - 132	1	20
1,2,3-Trichloropropane	25.0	21.7		ug/L		87	70 - 130	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.9		ug/L		95	42 - 162	0	20
1,2,4-Trimethylbenzene	25.0	23.0		ug/L		92	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	23.6		ug/L		95	70 - 130	2	20
Vinyl acetate	25.0	19.3		ug/L		77	43 - 163	1	20
Vinyl chloride	25.0	29.3		ug/L		117	54 - 135	2	20
m-Xylene & p-Xylene	25.0	24.0		ug/L		96	70 - 142	1	20
o-Xylene	25.0	23.7		ug/L		95	70 - 130	2	20
2,2-Dichloropropane	25.0	24.2		ug/L		97	70 - 140	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	81		72 - 130
Toluene-d8 (Surr)	92		70 - 130

Lab Sample ID: LCSD 720-214235/8
Matrix: Water
Analysis Batch: 214235

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	436		ug/L		87	71 - 125	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	91		67 - 130
1,2-Dichloroethane-d4 (Surr)	84		72 - 130
Toluene-d8 (Surr)	94		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-214105/19
Matrix: Water
Analysis Batch: 214105

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			12/02/16 16:38	1
Nitrate as NO3	ND		1.0		mg/L			12/02/16 16:38	1

Lab Sample ID: LCS 720-214105/20
Matrix: Water
Analysis Batch: 214105

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	10.3		mg/L		103	90 - 110
Nitrate as NO3	10.0	10.2		mg/L		102	90 - 110

Lab Sample ID: 720-76149-1 MS
Matrix: Water
Analysis Batch: 214105

Client Sample ID: MW-8
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	10.1		mg/L		101	80 - 120
Nitrate as NO3	ND		10.0	10.1		mg/L		98	80 - 120

Lab Sample ID: 720-76149-1 MSD
Matrix: Water
Analysis Batch: 214105

Client Sample ID: MW-8
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	10.1		mg/L		101	80 - 120	0	20
Nitrate as NO3	ND		10.0	10.0		mg/L		97	80 - 120	1	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-214229/1-A
Matrix: Water
Analysis Batch: 214329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 214229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		1.0		mg/L		12/06/16 09:46	12/06/16 18:57	1

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 720-214134/10
Matrix: Water
Analysis Batch: 214134

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			12/02/16 13:58	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Method: SM 3500 Fe B - Iron, Ferrous (Continued)

Lab Sample ID: LCS 720-214134/11
Matrix: Water
Analysis Batch: 214134

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	0.977		mg/L		98	85 - 115

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-363840/1-A
Matrix: Water
Analysis Batch: 363881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 363840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		12/06/16 16:30	12/06/16 19:04	1

Lab Sample ID: LCS 500-363840/2-A
Matrix: Water
Analysis Batch: 363881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 363840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.50	2.36		mg/L		94	80 - 120

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

GC/MS VOA

Analysis Batch: 214165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76149-1	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
720-76149-3	MW-12	Total/NA	Water	8260B/CA_LUFT MS	
720-76149-4	MW-4R	Total/NA	Water	8260B/CA_LUFT MS	
720-76149-5	MW-11R	Total/NA	Water	8260B/CA_LUFT MS	
720-76149-6	MW-5R	Total/NA	Water	8260B/CA_LUFT MS	
720-76149-7	MW-7R	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-214165/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-214165/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-214165/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-214165/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-214165/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-76149-1 MS	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
720-76149-1 MSD	MW-8	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 214235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76149-2	MW-6R	Total/NA	Water	8260B/CA_LUFT MS	
720-76149-4	MW-4R	Total/NA	Water	8260B/CA_LUFT MS	
720-76149-5	MW-11R	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-214235/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-214235/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-214235/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-214235/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-214235/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

HPLC/IC

Analysis Batch: 214105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76149-1	MW-8	Total/NA	Water	300.0	
720-76149-2	MW-6R	Total/NA	Water	300.0	
720-76149-2	MW-6R	Total/NA	Water	300.0	
720-76149-3	MW-12	Total/NA	Water	300.0	
720-76149-4	MW-4R	Total/NA	Water	300.0	
720-76149-5	MW-11R	Total/NA	Water	300.0	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

HPLC/IC (Continued)

Analysis Batch: 214105 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76149-6	MW-5R	Total/NA	Water	300.0	
720-76149-7	MW-7R	Total/NA	Water	300.0	
MB 720-214105/19	Method Blank	Total/NA	Water	300.0	
LCS 720-214105/20	Lab Control Sample	Total/NA	Water	300.0	
720-76149-1 MS	MW-8	Total/NA	Water	300.0	
720-76149-1 MSD	MW-8	Total/NA	Water	300.0	

Metals

Prep Batch: 214229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76149-1	MW-8	Total/NA	Water	200.7	
720-76149-2	MW-6R	Total/NA	Water	200.7	
720-76149-3	MW-12	Total/NA	Water	200.7	
720-76149-4	MW-4R	Total/NA	Water	200.7	
720-76149-5	MW-11R	Total/NA	Water	200.7	
720-76149-6	MW-5R	Total/NA	Water	200.7	
720-76149-7	MW-7R	Total/NA	Water	200.7	
MB 720-214229/1-A	Method Blank	Total/NA	Water	200.7	
LCS 720-214229/2-A	Lab Control Sample	Total/NA	Water	200.7	
720-76149-2 MS	MW-6R	Total/NA	Water	200.7	
720-76149-2 MSD	MW-6R	Total/NA	Water	200.7	

Analysis Batch: 214329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76149-1	MW-8	Total/NA	Water	200.7 Rev 4.4	214229
720-76149-2	MW-6R	Total/NA	Water	200.7 Rev 4.4	214229
720-76149-3	MW-12	Total/NA	Water	200.7 Rev 4.4	214229
720-76149-4	MW-4R	Total/NA	Water	200.7 Rev 4.4	214229
720-76149-5	MW-11R	Total/NA	Water	200.7 Rev 4.4	214229
720-76149-6	MW-5R	Total/NA	Water	200.7 Rev 4.4	214229
720-76149-7	MW-7R	Total/NA	Water	200.7 Rev 4.4	214229
MB 720-214229/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	214229
LCS 720-214229/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	214229
720-76149-2 MS	MW-6R	Total/NA	Water	200.7 Rev 4.4	214229
720-76149-2 MSD	MW-6R	Total/NA	Water	200.7 Rev 4.4	214229

General Chemistry

Analysis Batch: 214134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76149-1	MW-8	Total/NA	Water	SM 3500 Fe B	
720-76149-2	MW-6R	Total/NA	Water	SM 3500 Fe B	
720-76149-3	MW-12	Total/NA	Water	SM 3500 Fe B	
720-76149-4	MW-4R	Total/NA	Water	SM 3500 Fe B	
720-76149-5	MW-11R	Total/NA	Water	SM 3500 Fe B	
720-76149-6	MW-5R	Total/NA	Water	SM 3500 Fe B	
720-76149-7	MW-7R	Total/NA	Water	SM 3500 Fe B	
MB 720-214134/10	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 720-214134/11	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

General Chemistry (Continued)

Analysis Batch: 214351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76149-1	MW-8	Total/NA	Water	SM 3500	
720-76149-2	MW-6R	Total/NA	Water	SM 3500	
720-76149-3	MW-12	Total/NA	Water	SM 3500	
720-76149-4	MW-4R	Total/NA	Water	SM 3500	
720-76149-5	MW-11R	Total/NA	Water	SM 3500	
720-76149-6	MW-5R	Total/NA	Water	SM 3500	
720-76149-7	MW-7R	Total/NA	Water	SM 3500	

Prep Batch: 363840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76149-1	MW-8	Total/NA	Water	SM 4500 NH3 B	
720-76149-2	MW-6R	Total/NA	Water	SM 4500 NH3 B	
720-76149-3	MW-12	Total/NA	Water	SM 4500 NH3 B	
720-76149-4	MW-4R	Total/NA	Water	SM 4500 NH3 B	
720-76149-5	MW-11R	Total/NA	Water	SM 4500 NH3 B	
720-76149-6	MW-5R	Total/NA	Water	SM 4500 NH3 B	
720-76149-7	MW-7R	Total/NA	Water	SM 4500 NH3 B	
MB 500-363840/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 500-363840/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 363881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-76149-1	MW-8	Total/NA	Water	SM 4500 NH3 G	363840
720-76149-2	MW-6R	Total/NA	Water	SM 4500 NH3 G	363840
720-76149-3	MW-12	Total/NA	Water	SM 4500 NH3 G	363840
720-76149-4	MW-4R	Total/NA	Water	SM 4500 NH3 G	363840
720-76149-5	MW-11R	Total/NA	Water	SM 4500 NH3 G	363840
720-76149-6	MW-5R	Total/NA	Water	SM 4500 NH3 G	363840
720-76149-7	MW-7R	Total/NA	Water	SM 4500 NH3 G	363840
MB 500-363840/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	363840
LCS 500-363840/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	363840

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-8
Date Collected: 12/02/16 08:00
Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-1
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	214165	12/05/16 18:25	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214105	12/02/16 19:06	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 20:04	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		5	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363840	12/06/16 16:30	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363881		JBJ	TAL CHI
					(Start)	12/06/16 19:09		
					(End)	12/06/16 19:12		

Client Sample ID: MW-6R
Date Collected: 12/02/16 09:25
Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-2
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	214235	12/06/16 12:07	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214105	12/02/16 20:31	ECB	TAL PLS
Total/NA	Analysis	300.0		10	214105	12/02/16 20:48	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 20:19	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363840	12/06/16 16:30	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363881		JBJ	TAL CHI
					(Start)	12/06/16 19:12		
					(End)	12/06/16 19:15		

Client Sample ID: MW-12
Date Collected: 12/02/16 10:40
Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	214165	12/05/16 15:31	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214105	12/02/16 21:23	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 20:33	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363840	12/06/16 16:30	JBJ	TAL CHI

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-12

Date Collected: 12/02/16 10:40

Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 G		1	363881	12/06/16 19:15 (Start) 12/06/16 19:18 (End)	JBJ	TAL CHI

Client Sample ID: MW-4R

Date Collected: 12/02/16 11:40

Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	214165	12/05/16 16:00	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	214235	12/06/16 11:38	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214105	12/02/16 22:25	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 20:38	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		5	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363840	12/06/16 16:30	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		2	363881	12/06/16 19:18 (Start) 12/06/16 19:20 (End)	JBJ	TAL CHI

Client Sample ID: MW-11R

Date Collected: 12/02/16 13:31

Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		100	214165	12/05/16 16:29	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	214235	12/06/16 11:09	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214105	12/02/16 23:51	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 20:43	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		5	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363840	12/06/16 16:30	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363881	12/06/16 19:20 (Start) 12/06/16 19:23 (End)	JBJ	TAL CHI

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Client Sample ID: MW-5R

Date Collected: 12/02/16 14:35

Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		100	214165	12/05/16 16:58	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214105	12/03/16 00:42	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 20:48	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363840	12/06/16 16:30	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363881	12/06/16 19:23 (Start) 12/06/16 19:26 (End)	JBJ	TAL CHI

Client Sample ID: MW-7R

Date Collected: 12/02/16 15:22

Date Received: 12/02/16 16:45

Lab Sample ID: 720-76149-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		500	214165	12/05/16 17:27	LPL	TAL PLS
Total/NA	Analysis	300.0		1	214105	12/03/16 01:34	ECB	TAL PLS
Total/NA	Prep	200.7			214229	12/06/16 09:46	JNG	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	214329	12/06/16 20:53	ASB	TAL PLS
Total/NA	Analysis	SM 3500		1	214351	12/07/16 14:43	MEV	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	214134	12/02/16 13:58	ECB	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			363840	12/06/16 16:30	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	363881	12/06/16 19:26 (Start) 12/06/16 19:28 (End)	JBJ	TAL CHI

Laboratory References:

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

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: 720-76149-1

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

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	04-30-17
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

* Certification renewal pending - certification considered valid.

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS
300.0	Anions, Ion Chromatography	MCAWW	TAL PLS
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PLS
SM 3500	Iron, Ferric	SM	TAL PLS
SM 3500 Fe B	Iron, Ferrous	SM	TAL PLS
SM 4500 NH3 G	Ammonia	SM	TAL CHI

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

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-76149-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-76149-1	MW-8	Water	12/02/16 08:00	12/02/16 16:45
720-76149-2	MW-6R	Water	12/02/16 09:25	12/02/16 16:45
720-76149-3	MW-12	Water	12/02/16 10:40	12/02/16 16:45
720-76149-4	MW-4R	Water	12/02/16 11:40	12/02/16 16:45
720-76149-5	MW-11R	Water	12/02/16 13:31	12/02/16 16:45
720-76149-6	MW-5R	Water	12/02/16 14:35	12/02/16 16:45
720-76149-7	MW-7R	Water	12/02/16 15:22	12/02/16 16:45

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TestAmerica

THE LEADERS IN ENVIRONMENTAL ANALYSIS

TESTAMERICA Pleasanton Chain of Custody
 1220 Quarry Lane • Pleasanton CA 94566-4756
 Phone: (925) 484-1919 • Fax: (925) 600-3002

Date 12.2.16 Page 1 of 1

6/2017

Report To

Analysis Request

Alt: **Peter Sims**
 Company: **Ningo & Moore**
 Address: **1956 Webster St, #400**
 Email: **psims@ningoandmoore.com**
 Bill To: **Peter Sims**
 Sampled By: **ALT**
 Alt: **Peter Sims** Phone: **510.543.3000**

Sample ID	Date	Time	Mat. Present	Volatiles	HVOCs	EPA 8260B	TEPH	Semivolatiles	FNA/PAHs	Oil and Grease	Pesticides	CAM17 Metals	Metals	Hex. Chrom	pH	Anions	Perchlorate	COD	Turbidity	
MW-8	12.2.16	800	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-6	12.2.16	925	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-12	12.2.16	1040	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-4	12.2.16	1140	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-11	12.2.16	1331	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-5	12.2.16	1435	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-7	12.2.16	1522	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Project Info

Sample Receipt

Project Name: # of Containers:
 CMA 401896004

Head Space:
 Temp:
 Credit Card V.N. If yes, please call with payment information ASAP

Report: Routine Level 3 Level 4 EDD EDF
 Special Instructions / Comments: Global ID

1) Relinquished by:
 Signature: [Signature] Time: 1533
 Printed Name: ASHA TURMAN Date: 12.2.16
 Company: Ningo & Moore

2) Relinquished by:
 Signature: [Signature] Time: 1645
 Printed Name: Robert Date: 12/2/16
 Company: TA

3) Relinquished by:
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

720-76149 Chain of Custody



See Term

3.8e

Rev.10

Smith, Micah

From: Peter Sims <psims@ninyoandmoore.com>
Sent: Wednesday, January 25, 2017 3:53 PM
To: Smith, Micah
Cc: Duong, Paloma
Subject: FW: Sample IDs
Attachments: TestAmerica EDD and report files from 720-76149-1 Chun; TestAmerica EDD and report files from 720-76130-1 Chun

Hi Micah, see below request.

Thanks,

Peter D. Sims, LEED AP

Project Environmental Geologist

Ninyo & Moore

Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400 | Oakland, California 94612
(510) 343-3000 (x15216) | (510) 327-9335 (Cell)
psims@ninyoandmoore.com
www.ninyoandmoore.com

30 Years of Quality Service



From: Peter Sims

Sent: Wednesday, January 25, 2017 3:43 PM

To: Duong, Paloma <paloma.duong@testamericainc.com> (paloma.duong@testamericainc.com)

Subject: Sample IDs

Hi Paloma,

There are a couple of sample IDs that need to be revised in the reports and Geotracker EDFs that are attached. The correct IDs are:

MW-4R

MW-5R

MW-6R

MW-7R

MW-11R

Thanks,

Peter D. Sims, LEED AP

Project Environmental Geologist

Ninyo & Moore

Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400 | Oakland, California 94612
(510) 343-3000 (x15216) | (510) 327-9335 (Cell)
psims@ninyoandmoore.com
www.ninyoandmoore.com

30 Years of Quality Service



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:				Accreditations Required (See note):				Job #:		
TestAmerica Laboratories, Inc.				State Program - California				720-76149-1		
Address:		Due Date Requested:		Analysis Requested					Preservation Codes:	
2417 Bond Street,		12/8/2016								
City:		TAT Requested (days):		Field Filtered Sample (Yes or No)		Perform MMSO (Yes or No)		Total Number of Containers		
University Park										
State, Zip:		PO #:		SIM4500NH3_G/SIM4500NH3_B Ammonia						
IL, 60484										
Phone:		WO #:								
708-534-5200(Tel) 708-534-5211(Fax)										
Email:		Project #:								
		72010606								
Project Name:		SSOW#:								
Chun										
Site:										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefol, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MMSO (Yes or No)	Total Number of Containers	Special Instructions/Note:	
		Preservation Code:								
MW-8 (720-76149-1)		12/2/16	08:00 Pacific		Water	X		1		
MW-6 (720-76149-2)		12/2/16	09:25 Pacific		Water	X		1		
MW-12 (720-76149-3)		12/2/16	10:40 Pacific		Water	X		1		
MW-4 (720-76149-4)		12/2/16	11:40 Pacific		Water	X		1		
MW-11 (720-76149-5)		12/2/16	13:31 Pacific		Water	X		1		
MW-5 (720-76149-6)		12/2/16	14:35 Pacific		Water	X		1		
MW-7 (720-76149-7)		12/2/16	15:22 Pacific		Water	X		1		



720-76149 COC

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/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.

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: 12/5/16 @ 3:30		Company: TA		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Date/Time: 12/06/16 @ 1030	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: -1.5			



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-76149-1

Login Number: 76149

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.	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").	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: 720-76149-1

Login Number: 76149
List Number: 2
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago
List Creation: 12/06/16 12:09 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	-1.5
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	



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

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.

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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.

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
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 Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
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	Limits
	%Recovery	Qualifier	
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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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

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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: 720-75500-1
Client Project/Site: Chun

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

Attn: Mr. Peter D. Sims



Authorized for release by:
11/7/2016 3:38:03 PM

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

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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.

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Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

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: 720-75500-1

Job ID: 720-75500-1

Laboratory: TestAmerica Pleasanton

Narrative

**Job Narrative
720-75500-1**

Comments

No additional comments.

Receipt

The samples were received on 10/28/2016 5:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8° C.

GC/MS VOA

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

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Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

Client Sample ID: INF

Lab Sample ID: 720-75500-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	22		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	5.1		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	4.6		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	1.1		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	3.9		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	43		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	210		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: GAC

Lab Sample ID: 720-75500-2

No Detections.

Client Sample ID: EFF

Lab Sample ID: 720-75500-3

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: 720-75500-1

Client Sample ID: INF
Date Collected: 10/26/16 13:28
Date Received: 10/28/16 17:10

Lab Sample ID: 720-75500-1
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			11/06/16 14:02	1
Acetone	ND		50		ug/L			11/06/16 14:02	1
Benzene	22		0.50		ug/L			11/06/16 14:02	1
Dichlorobromomethane	ND		0.50		ug/L			11/06/16 14:02	1
Bromobenzene	ND		1.0		ug/L			11/06/16 14:02	1
Chlorobromomethane	ND		1.0		ug/L			11/06/16 14:02	1
Bromoform	ND		1.0		ug/L			11/06/16 14:02	1
Bromomethane	ND		1.0		ug/L			11/06/16 14:02	1
2-Butanone (MEK)	ND		50		ug/L			11/06/16 14:02	1
n-Butylbenzene	ND		1.0		ug/L			11/06/16 14:02	1
sec-Butylbenzene	ND		1.0		ug/L			11/06/16 14:02	1
tert-Butylbenzene	ND		1.0		ug/L			11/06/16 14:02	1
Carbon disulfide	ND		5.0		ug/L			11/06/16 14:02	1
Carbon tetrachloride	ND		0.50		ug/L			11/06/16 14:02	1
Chlorobenzene	ND		0.50		ug/L			11/06/16 14:02	1
Chloroethane	ND		1.0		ug/L			11/06/16 14:02	1
Chloroform	ND		1.0		ug/L			11/06/16 14:02	1
Chloromethane	ND		1.0		ug/L			11/06/16 14:02	1
2-Chlorotoluene	ND		0.50		ug/L			11/06/16 14:02	1
4-Chlorotoluene	ND		0.50		ug/L			11/06/16 14:02	1
Chlorodibromomethane	ND		0.50		ug/L			11/06/16 14:02	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/06/16 14:02	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/06/16 14:02	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/06/16 14:02	1
1,3-Dichloropropane	ND		1.0		ug/L			11/06/16 14:02	1
1,1-Dichloropropene	ND		0.50		ug/L			11/06/16 14:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/06/16 14:02	1
Ethylene Dibromide	ND		0.50		ug/L			11/06/16 14:02	1
Dibromomethane	ND		0.50		ug/L			11/06/16 14:02	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/06/16 14:02	1
1,1-Dichloroethane	ND		0.50		ug/L			11/06/16 14:02	1
1,2-Dichloroethane	ND		0.50		ug/L			11/06/16 14:02	1
1,1-Dichloroethene	ND		0.50		ug/L			11/06/16 14:02	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/06/16 14:02	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/06/16 14:02	1
1,2-Dichloropropane	ND		0.50		ug/L			11/06/16 14:02	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/06/16 14:02	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/06/16 14:02	1
Ethylbenzene	ND		0.50		ug/L			11/06/16 14:02	1
Hexachlorobutadiene	ND		1.0		ug/L			11/06/16 14:02	1
2-Hexanone	ND		50		ug/L			11/06/16 14:02	1
Isopropylbenzene	ND		0.50		ug/L			11/06/16 14:02	1
4-Isopropyltoluene	ND		1.0		ug/L			11/06/16 14:02	1
Methylene Chloride	ND		5.0		ug/L			11/06/16 14:02	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/06/16 14:02	1
Naphthalene	5.1		1.0		ug/L			11/06/16 14:02	1
N-Propylbenzene	ND		1.0		ug/L			11/06/16 14:02	1
Styrene	ND		0.50		ug/L			11/06/16 14:02	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/06/16 14:02	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

Client Sample ID: INF

Lab Sample ID: 720-75500-1

Date Collected: 10/26/16 13:28

Matrix: Water

Date Received: 10/28/16 17:10

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			11/06/16 14:02	1
Tetrachloroethene	ND		0.50		ug/L			11/06/16 14:02	1
Toluene	4.6		0.50		ug/L			11/06/16 14:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/06/16 14:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/06/16 14:02	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/06/16 14:02	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/06/16 14:02	1
Trichloroethene	ND		0.50		ug/L			11/06/16 14:02	1
Trichlorofluoromethane	ND		1.0		ug/L			11/06/16 14:02	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/06/16 14:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/06/16 14:02	1
1,2,4-Trimethylbenzene	1.1		0.50		ug/L			11/06/16 14:02	1
1,3,5-Trimethylbenzene	3.9		0.50		ug/L			11/06/16 14:02	1
Vinyl acetate	ND		10		ug/L			11/06/16 14:02	1
Vinyl chloride	ND		0.50		ug/L			11/06/16 14:02	1
Xylenes, Total	43		1.0		ug/L			11/06/16 14:02	1
2,2-Dichloropropane	ND		0.50		ug/L			11/06/16 14:02	1
Gasoline Range Organics (GRO)	210		50		ug/L			11/06/16 14:02	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		67 - 130		11/06/16 14:02	1
1,2-Dichloroethane-d4 (Surr)	95		72 - 130		11/06/16 14:02	1
Toluene-d8 (Surr)	93		70 - 130		11/06/16 14:02	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

Client Sample ID: GAC
Date Collected: 10/26/16 13:30
Date Received: 10/28/16 17:10

Lab Sample ID: 720-75500-2
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			11/06/16 15:29	1
Acetone	ND		50		ug/L			11/06/16 15:29	1
Benzene	ND		0.50		ug/L			11/06/16 15:29	1
Dichlorobromomethane	ND		0.50		ug/L			11/06/16 15:29	1
Bromobenzene	ND		1.0		ug/L			11/06/16 15:29	1
Chlorobromomethane	ND		1.0		ug/L			11/06/16 15:29	1
Bromoform	ND		1.0		ug/L			11/06/16 15:29	1
Bromomethane	ND		1.0		ug/L			11/06/16 15:29	1
2-Butanone (MEK)	ND		50		ug/L			11/06/16 15:29	1
n-Butylbenzene	ND		1.0		ug/L			11/06/16 15:29	1
sec-Butylbenzene	ND		1.0		ug/L			11/06/16 15:29	1
tert-Butylbenzene	ND		1.0		ug/L			11/06/16 15:29	1
Carbon disulfide	ND		5.0		ug/L			11/06/16 15:29	1
Carbon tetrachloride	ND		0.50		ug/L			11/06/16 15:29	1
Chlorobenzene	ND		0.50		ug/L			11/06/16 15:29	1
Chloroethane	ND		1.0		ug/L			11/06/16 15:29	1
Chloroform	ND		1.0		ug/L			11/06/16 15:29	1
Chloromethane	ND		1.0		ug/L			11/06/16 15:29	1
2-Chlorotoluene	ND		0.50		ug/L			11/06/16 15:29	1
4-Chlorotoluene	ND		0.50		ug/L			11/06/16 15:29	1
Chlorodibromomethane	ND		0.50		ug/L			11/06/16 15:29	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/06/16 15:29	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/06/16 15:29	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/06/16 15:29	1
1,3-Dichloropropane	ND		1.0		ug/L			11/06/16 15:29	1
1,1-Dichloropropene	ND		0.50		ug/L			11/06/16 15:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/06/16 15:29	1
Ethylene Dibromide	ND		0.50		ug/L			11/06/16 15:29	1
Dibromomethane	ND		0.50		ug/L			11/06/16 15:29	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/06/16 15:29	1
1,1-Dichloroethane	ND		0.50		ug/L			11/06/16 15:29	1
1,2-Dichloroethane	ND		0.50		ug/L			11/06/16 15:29	1
1,1-Dichloroethene	ND		0.50		ug/L			11/06/16 15:29	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/06/16 15:29	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/06/16 15:29	1
1,2-Dichloropropane	ND		0.50		ug/L			11/06/16 15:29	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/06/16 15:29	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/06/16 15:29	1
Ethylbenzene	ND		0.50		ug/L			11/06/16 15:29	1
Hexachlorobutadiene	ND		1.0		ug/L			11/06/16 15:29	1
2-Hexanone	ND		50		ug/L			11/06/16 15:29	1
Isopropylbenzene	ND		0.50		ug/L			11/06/16 15:29	1
4-Isopropyltoluene	ND		1.0		ug/L			11/06/16 15:29	1
Methylene Chloride	ND		5.0		ug/L			11/06/16 15:29	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/06/16 15:29	1
Naphthalene	ND		1.0		ug/L			11/06/16 15:29	1
N-Propylbenzene	ND		1.0		ug/L			11/06/16 15:29	1
Styrene	ND		0.50		ug/L			11/06/16 15:29	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/06/16 15:29	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

Client Sample ID: GAC

Lab Sample ID: 720-75500-2

Date Collected: 10/26/16 13:30

Matrix: Water

Date Received: 10/28/16 17:10

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			11/06/16 15:29	1
Tetrachloroethene	ND		0.50		ug/L			11/06/16 15:29	1
Toluene	ND		0.50		ug/L			11/06/16 15:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/06/16 15:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/06/16 15:29	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/06/16 15:29	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/06/16 15:29	1
Trichloroethene	ND		0.50		ug/L			11/06/16 15:29	1
Trichlorofluoromethane	ND		1.0		ug/L			11/06/16 15:29	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/06/16 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/06/16 15:29	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/06/16 15:29	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/06/16 15:29	1
Vinyl acetate	ND		10		ug/L			11/06/16 15:29	1
Vinyl chloride	ND		0.50		ug/L			11/06/16 15:29	1
Xylenes, Total	ND		1.0		ug/L			11/06/16 15:29	1
2,2-Dichloropropane	ND		0.50		ug/L			11/06/16 15:29	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			11/06/16 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130		11/06/16 15:29	1
1,2-Dichloroethane-d4 (Surr)	94		72 - 130		11/06/16 15:29	1
Toluene-d8 (Surr)	93		70 - 130		11/06/16 15:29	1

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

Client Sample ID: EFF
Date Collected: 10/26/16 13:32
Date Received: 10/28/16 17:10

Lab Sample ID: 720-75500-3
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			11/06/16 13:33	1
Acetone	ND		50		ug/L			11/06/16 13:33	1
Benzene	ND		0.50		ug/L			11/06/16 13:33	1
Dichlorobromomethane	ND		0.50		ug/L			11/06/16 13:33	1
Bromobenzene	ND		1.0		ug/L			11/06/16 13:33	1
Chlorobromomethane	ND		1.0		ug/L			11/06/16 13:33	1
Bromoform	ND		1.0		ug/L			11/06/16 13:33	1
Bromomethane	ND		1.0		ug/L			11/06/16 13:33	1
2-Butanone (MEK)	ND		50		ug/L			11/06/16 13:33	1
n-Butylbenzene	ND		1.0		ug/L			11/06/16 13:33	1
sec-Butylbenzene	ND		1.0		ug/L			11/06/16 13:33	1
tert-Butylbenzene	ND		1.0		ug/L			11/06/16 13:33	1
Carbon disulfide	ND		5.0		ug/L			11/06/16 13:33	1
Carbon tetrachloride	ND		0.50		ug/L			11/06/16 13:33	1
Chlorobenzene	ND		0.50		ug/L			11/06/16 13:33	1
Chloroethane	ND		1.0		ug/L			11/06/16 13:33	1
Chloroform	ND		1.0		ug/L			11/06/16 13:33	1
Chloromethane	ND		1.0		ug/L			11/06/16 13:33	1
2-Chlorotoluene	ND		0.50		ug/L			11/06/16 13:33	1
4-Chlorotoluene	ND		0.50		ug/L			11/06/16 13:33	1
Chlorodibromomethane	ND		0.50		ug/L			11/06/16 13:33	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/06/16 13:33	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/06/16 13:33	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/06/16 13:33	1
1,3-Dichloropropane	ND		1.0		ug/L			11/06/16 13:33	1
1,1-Dichloropropene	ND		0.50		ug/L			11/06/16 13:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/06/16 13:33	1
Ethylene Dibromide	ND		0.50		ug/L			11/06/16 13:33	1
Dibromomethane	ND		0.50		ug/L			11/06/16 13:33	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/06/16 13:33	1
1,1-Dichloroethane	ND		0.50		ug/L			11/06/16 13:33	1
1,2-Dichloroethane	ND		0.50		ug/L			11/06/16 13:33	1
1,1-Dichloroethene	ND		0.50		ug/L			11/06/16 13:33	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/06/16 13:33	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/06/16 13:33	1
1,2-Dichloropropane	ND		0.50		ug/L			11/06/16 13:33	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/06/16 13:33	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/06/16 13:33	1
Ethylbenzene	ND		0.50		ug/L			11/06/16 13:33	1
Hexachlorobutadiene	ND		1.0		ug/L			11/06/16 13:33	1
2-Hexanone	ND		50		ug/L			11/06/16 13:33	1
Isopropylbenzene	ND		0.50		ug/L			11/06/16 13:33	1
4-Isopropyltoluene	ND		1.0		ug/L			11/06/16 13:33	1
Methylene Chloride	ND		5.0		ug/L			11/06/16 13:33	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/06/16 13:33	1
Naphthalene	ND		1.0		ug/L			11/06/16 13:33	1
N-Propylbenzene	ND		1.0		ug/L			11/06/16 13:33	1
Styrene	ND		0.50		ug/L			11/06/16 13:33	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/06/16 13:33	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

Client Sample ID: EFF
Date Collected: 10/26/16 13:32
Date Received: 10/28/16 17:10

Lab Sample ID: 720-75500-3
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			11/06/16 13:33	1
Tetrachloroethene	ND		0.50		ug/L			11/06/16 13:33	1
Toluene	ND		0.50		ug/L			11/06/16 13:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/06/16 13:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/06/16 13:33	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/06/16 13:33	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/06/16 13:33	1
Trichloroethene	ND		0.50		ug/L			11/06/16 13:33	1
Trichlorofluoromethane	ND		1.0		ug/L			11/06/16 13:33	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/06/16 13:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/06/16 13:33	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/06/16 13:33	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/06/16 13:33	1
Vinyl acetate	ND		10		ug/L			11/06/16 13:33	1
Vinyl chloride	ND		0.50		ug/L			11/06/16 13:33	1
Xylenes, Total	ND		1.0		ug/L			11/06/16 13:33	1
2,2-Dichloropropane	ND		0.50		ug/L			11/06/16 13:33	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			11/06/16 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130		11/06/16 13:33	1
1,2-Dichloroethane-d4 (Surr)	95		72 - 130		11/06/16 13:33	1
Toluene-d8 (Surr)	93		70 - 130		11/06/16 13:33	1

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

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

Lab Sample ID: MB 720-212596/5

Matrix: Water

Analysis Batch: 212596

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			11/06/16 11:07	1
Acetone	ND		50		ug/L			11/06/16 11:07	1
Benzene	ND		0.50		ug/L			11/06/16 11:07	1
Dichlorobromomethane	ND		0.50		ug/L			11/06/16 11:07	1
Bromobenzene	ND		1.0		ug/L			11/06/16 11:07	1
Chlorobromomethane	ND		1.0		ug/L			11/06/16 11:07	1
Bromoform	ND		1.0		ug/L			11/06/16 11:07	1
Bromomethane	ND		1.0		ug/L			11/06/16 11:07	1
2-Butanone (MEK)	ND		50		ug/L			11/06/16 11:07	1
n-Butylbenzene	ND		1.0		ug/L			11/06/16 11:07	1
sec-Butylbenzene	ND		1.0		ug/L			11/06/16 11:07	1
tert-Butylbenzene	ND		1.0		ug/L			11/06/16 11:07	1
Carbon disulfide	ND		5.0		ug/L			11/06/16 11:07	1
Carbon tetrachloride	ND		0.50		ug/L			11/06/16 11:07	1
Chlorobenzene	ND		0.50		ug/L			11/06/16 11:07	1
Chloroethane	ND		1.0		ug/L			11/06/16 11:07	1
Chloroform	ND		1.0		ug/L			11/06/16 11:07	1
Chloromethane	ND		1.0		ug/L			11/06/16 11:07	1
2-Chlorotoluene	ND		0.50		ug/L			11/06/16 11:07	1
4-Chlorotoluene	ND		0.50		ug/L			11/06/16 11:07	1
Chlorodibromomethane	ND		0.50		ug/L			11/06/16 11:07	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/06/16 11:07	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/06/16 11:07	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/06/16 11:07	1
1,3-Dichloropropane	ND		1.0		ug/L			11/06/16 11:07	1
1,1-Dichloropropene	ND		0.50		ug/L			11/06/16 11:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/06/16 11:07	1
Ethylene Dibromide	ND		0.50		ug/L			11/06/16 11:07	1
Dibromomethane	ND		0.50		ug/L			11/06/16 11:07	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/06/16 11:07	1
1,1-Dichloroethane	ND		0.50		ug/L			11/06/16 11:07	1
1,2-Dichloroethane	ND		0.50		ug/L			11/06/16 11:07	1
1,1-Dichloroethene	ND		0.50		ug/L			11/06/16 11:07	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/06/16 11:07	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/06/16 11:07	1
1,2-Dichloropropane	ND		0.50		ug/L			11/06/16 11:07	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/06/16 11:07	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/06/16 11:07	1
Ethylbenzene	ND		0.50		ug/L			11/06/16 11:07	1
Hexachlorobutadiene	ND		1.0		ug/L			11/06/16 11:07	1
2-Hexanone	ND		50		ug/L			11/06/16 11:07	1
Isopropylbenzene	ND		0.50		ug/L			11/06/16 11:07	1
4-Isopropyltoluene	ND		1.0		ug/L			11/06/16 11:07	1
Methylene Chloride	ND		5.0		ug/L			11/06/16 11:07	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/06/16 11:07	1
Naphthalene	ND		1.0		ug/L			11/06/16 11:07	1
N-Propylbenzene	ND		1.0		ug/L			11/06/16 11:07	1
Styrene	ND		0.50		ug/L			11/06/16 11:07	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

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

Lab Sample ID: MB 720-212596/5
Matrix: Water
Analysis Batch: 212596

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			11/06/16 11:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/06/16 11:07	1
Tetrachloroethene	ND		0.50		ug/L			11/06/16 11:07	1
Toluene	ND		0.50		ug/L			11/06/16 11:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/06/16 11:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/06/16 11:07	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/06/16 11:07	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/06/16 11:07	1
Trichloroethene	ND		0.50		ug/L			11/06/16 11:07	1
Trichlorofluoromethane	ND		1.0		ug/L			11/06/16 11:07	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/06/16 11:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/06/16 11:07	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/06/16 11:07	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/06/16 11:07	1
Vinyl acetate	ND		10		ug/L			11/06/16 11:07	1
Vinyl chloride	ND		0.50		ug/L			11/06/16 11:07	1
Xylenes, Total	ND		1.0		ug/L			11/06/16 11:07	1
2,2-Dichloropropane	ND		0.50		ug/L			11/06/16 11:07	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			11/06/16 11:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		67 - 130		11/06/16 11:07	1
1,2-Dichloroethane-d4 (Surr)	92		72 - 130		11/06/16 11:07	1
Toluene-d8 (Surr)	93		70 - 130		11/06/16 11:07	1

Lab Sample ID: LCS 720-212596/6
Matrix: Water
Analysis Batch: 212596

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	27.0		ug/L		108	62 - 130
Acetone	125	136		ug/L		109	26 - 180
Benzene	25.0	26.4		ug/L		105	79 - 130
Dichlorobromomethane	25.0	27.9		ug/L		112	70 - 130
Bromobenzene	25.0	26.1		ug/L		104	70 - 130
Chlorobromomethane	25.0	27.2		ug/L		109	70 - 130
Bromoform	25.0	28.1		ug/L		112	68 - 136
Bromomethane	25.0	21.9		ug/L		88	43 - 151
2-Butanone (MEK)	125	131		ug/L		105	54 - 153
n-Butylbenzene	25.0	26.7		ug/L		107	70 - 142
sec-Butylbenzene	25.0	26.9		ug/L		107	70 - 134
tert-Butylbenzene	25.0	26.8		ug/L		107	70 - 135
Carbon disulfide	25.0	23.7		ug/L		95	68 - 146
Carbon tetrachloride	25.0	27.6		ug/L		110	70 - 146
Chlorobenzene	25.0	26.2		ug/L		105	70 - 130
Chloroethane	25.0	22.9		ug/L		92	62 - 138
Chloroform	25.0	27.2		ug/L		109	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

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

Lab Sample ID: LCS 720-212596/6
Matrix: Water
Analysis Batch: 212596

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	20.6		ug/L		82	52 - 175
2-Chlorotoluene	25.0	26.2		ug/L		105	70 - 130
4-Chlorotoluene	25.0	26.5		ug/L		106	70 - 130
Chlorodibromomethane	25.0	26.8		ug/L		107	70 - 145
1,2-Dichlorobenzene	25.0	26.7		ug/L		107	70 - 130
1,3-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,4-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,3-Dichloropropane	25.0	26.8		ug/L		107	70 - 130
1,1-Dichloropropene	25.0	26.4		ug/L		106	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.9		ug/L		104	70 - 136
Ethylene Dibromide	25.0	27.1		ug/L		108	70 - 130
Dibromomethane	25.0	26.5		ug/L		106	70 - 130
Dichlorodifluoromethane	25.0	14.6		ug/L		59	32 - 158
1,1-Dichloroethane	25.0	25.8		ug/L		103	70 - 130
1,2-Dichloroethane	25.0	27.4		ug/L		109	61 - 132
1,1-Dichloroethene	25.0	24.4		ug/L		97	64 - 128
cis-1,2-Dichloroethene	25.0	26.6		ug/L		106	70 - 130
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	68 - 130
1,2-Dichloropropane	25.0	28.2		ug/L		113	70 - 130
cis-1,3-Dichloropropene	25.0	28.1		ug/L		112	70 - 130
trans-1,3-Dichloropropene	25.0	26.3		ug/L		105	70 - 140
Ethylbenzene	25.0	26.0		ug/L		104	80 - 120
Hexachlorobutadiene	25.0	27.0		ug/L		108	70 - 130
2-Hexanone	125	128		ug/L		103	60 - 164
Isopropylbenzene	25.0	27.1		ug/L		109	70 - 130
4-Isopropyltoluene	25.0	26.6		ug/L		107	70 - 130
Methylene Chloride	25.0	25.0		ug/L		100	70 - 147
4-Methyl-2-pentanone (MIBK)	125	131		ug/L		105	50 - 155
Naphthalene	25.0	26.1		ug/L		104	50 - 130
N-Propylbenzene	25.0	26.4		ug/L		106	70 - 130
Styrene	25.0	26.5		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.0		ug/L		108	70 - 130
1,1,1,2-Tetrachloroethane	25.0	26.9		ug/L		108	70 - 130
Tetrachloroethene	25.0	27.4		ug/L		110	70 - 130
Toluene	25.0	26.1		ug/L		104	78 - 120
1,2,3-Trichlorobenzene	25.0	26.1		ug/L		104	70 - 130
1,2,4-Trichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,1,1-Trichloroethane	25.0	26.6		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	26.9		ug/L		108	70 - 130
Trichloroethene	25.0	27.1		ug/L		108	70 - 130
Trichlorofluoromethane	25.0	24.4		ug/L		98	66 - 132
1,2,3-Trichloropropane	25.0	26.8		ug/L		107	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.7		ug/L		103	42 - 162
1,2,4-Trimethylbenzene	25.0	26.2		ug/L		105	70 - 132
1,3,5-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 130
Vinyl acetate	25.0	24.4		ug/L		98	43 - 163
Vinyl chloride	25.0	21.9		ug/L		87	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

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

Lab Sample ID: LCS 720-212596/6
Matrix: Water
Analysis Batch: 212596

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	26.1		ug/L		104	70 - 142
o-Xylene	25.0	25.8		ug/L		103	70 - 130
2,2-Dichloropropane	25.0	27.2		ug/L		109	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	95		67 - 130
1,2-Dichloroethane-d4 (Surr)	93		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCS 720-212596/8
Matrix: Water
Analysis Batch: 212596

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	519		ug/L		104	71 - 125

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

Lab Sample ID: LCSD 720-212596/7
Matrix: Water
Analysis Batch: 212596

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	27.6		ug/L		110	62 - 130	2	20
Acetone	125	146		ug/L		117	26 - 180	7	30
Benzene	25.0	26.9		ug/L		107	79 - 130	2	20
Dichlorobromomethane	25.0	28.0		ug/L		112	70 - 130	0	20
Bromobenzene	25.0	26.2		ug/L		105	70 - 130	1	20
Chlorobromomethane	25.0	27.3		ug/L		109	70 - 130	0	20
Bromoform	25.0	28.3		ug/L		113	68 - 136	1	20
Bromomethane	25.0	21.9		ug/L		88	43 - 151	0	20
2-Butanone (MEK)	125	134		ug/L		107	54 - 153	3	20
n-Butylbenzene	25.0	27.1		ug/L		109	70 - 142	2	20
sec-Butylbenzene	25.0	27.0		ug/L		108	70 - 134	0	20
tert-Butylbenzene	25.0	26.8		ug/L		107	70 - 135	0	20
Carbon disulfide	25.0	24.1		ug/L		96	68 - 146	1	20
Carbon tetrachloride	25.0	28.0		ug/L		112	70 - 146	1	20
Chlorobenzene	25.0	26.7		ug/L		107	70 - 130	2	20
Chloroethane	25.0	23.1		ug/L		92	62 - 138	1	20
Chloroform	25.0	27.4		ug/L		110	70 - 130	1	20
Chloromethane	25.0	20.5		ug/L		82	52 - 175	0	20
2-Chlorotoluene	25.0	26.1		ug/L		104	70 - 130	1	20
4-Chlorotoluene	25.0	26.5		ug/L		106	70 - 130	0	20
Chlorodibromomethane	25.0	27.1		ug/L		108	70 - 145	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

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

Lab Sample ID: LCSD 720-212596/7

Matrix: Water

Analysis Batch: 212596

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	26.7		ug/L		107	70 - 130	0	20
1,3-Dichlorobenzene	25.0	26.7		ug/L		107	70 - 130	1	20
1,4-Dichlorobenzene	25.0	26.4		ug/L		106	70 - 130	0	20
1,3-Dichloropropane	25.0	27.4		ug/L		109	70 - 130	2	20
1,1-Dichloropropene	25.0	26.8		ug/L		107	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	27.2		ug/L		109	70 - 136	5	20
Ethylene Dibromide	25.0	27.7		ug/L		111	70 - 130	2	20
Dibromomethane	25.0	27.0		ug/L		108	70 - 130	2	20
Dichlorodifluoromethane	25.0	14.2		ug/L		57	32 - 158	3	20
1,1-Dichloroethane	25.0	26.1		ug/L		104	70 - 130	1	20
1,2-Dichloroethane	25.0	27.5		ug/L		110	61 - 132	0	20
1,1-Dichloroethene	25.0	24.7		ug/L		99	64 - 128	2	20
cis-1,2-Dichloroethene	25.0	27.1		ug/L		108	70 - 130	2	20
trans-1,2-Dichloroethene	25.0	27.0		ug/L		108	68 - 130	2	20
1,2-Dichloropropane	25.0	28.4		ug/L		114	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	28.6		ug/L		114	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	26.4		ug/L		106	70 - 140	1	20
Ethylbenzene	25.0	26.5		ug/L		106	80 - 120	2	20
Hexachlorobutadiene	25.0	27.5		ug/L		110	70 - 130	2	20
2-Hexanone	125	133		ug/L		106	60 - 164	3	20
Isopropylbenzene	25.0	27.4		ug/L		110	70 - 130	1	20
4-Isopropyltoluene	25.0	26.8		ug/L		107	70 - 130	1	20
Methylene Chloride	25.0	25.2		ug/L		101	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	135		ug/L		108	50 - 155	3	20
Naphthalene	25.0	27.5		ug/L		110	50 - 130	5	20
N-Propylbenzene	25.0	26.7		ug/L		107	70 - 130	1	20
Styrene	25.0	26.8		ug/L		107	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	27.4		ug/L		110	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	27.2		ug/L		109	70 - 130	1	20
Tetrachloroethene	25.0	27.9		ug/L		112	70 - 130	2	20
Toluene	25.0	26.5		ug/L		106	78 - 120	2	20
1,2,3-Trichlorobenzene	25.0	27.2		ug/L		109	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	26.9		ug/L		107	70 - 130	2	20
1,1,1-Trichloroethane	25.0	27.0		ug/L		108	70 - 130	1	20
1,1,2-Trichloroethane	25.0	26.9		ug/L		107	70 - 130	0	20
Trichloroethene	25.0	27.7		ug/L		111	70 - 130	2	20
Trichlorofluoromethane	25.0	24.2		ug/L		97	66 - 132	1	20
1,2,3-Trichloropropane	25.0	26.7		ug/L		107	70 - 130	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.6		ug/L		102	42 - 162	1	20
1,2,4-Trimethylbenzene	25.0	26.2		ug/L		105	70 - 132	0	20
1,3,5-Trimethylbenzene	25.0	26.8		ug/L		107	70 - 130	0	20
Vinyl acetate	25.0	24.5		ug/L		98	43 - 163	0	20
Vinyl chloride	25.0	21.8		ug/L		87	54 - 135	0	20
m-Xylene & p-Xylene	25.0	26.3		ug/L		105	70 - 142	1	20
o-Xylene	25.0	26.3		ug/L		105	70 - 130	2	20
2,2-Dichloropropane	25.0	27.4		ug/L		110	70 - 140	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

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

Lab Sample ID: LCSD 720-212596/7
Matrix: Water
Analysis Batch: 212596

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

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	92		72 - 130
Toluene-d8 (Surr)	93		70 - 130

Lab Sample ID: LCSD 720-212596/9
Matrix: Water
Analysis Batch: 212596

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	498		ug/L		100	71 - 125	4	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	95		72 - 130
Toluene-d8 (Surr)	93		70 - 130

Lab Sample ID: 720-75500-2 MS
Matrix: Water
Analysis Batch: 212596

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	ND		25.0	26.7		ug/L		107	60 - 138
Acetone	ND		125	111		ug/L		88	60 - 140
Benzene	ND		25.0	26.2		ug/L		105	60 - 140
Dichlorobromomethane	ND		25.0	27.7		ug/L		111	60 - 140
Bromobenzene	ND		25.0	26.4		ug/L		106	60 - 140
Chlorobromomethane	ND		25.0	26.9		ug/L		108	60 - 140
Bromoform	ND		25.0	26.9		ug/L		108	56 - 140
Bromomethane	ND		25.0	20.1		ug/L		80	23 - 140
2-Butanone (MEK)	ND		125	118		ug/L		94	60 - 140
n-Butylbenzene	ND		25.0	26.8		ug/L		107	60 - 140
sec-Butylbenzene	ND		25.0	26.7		ug/L		107	60 - 140
tert-Butylbenzene	ND		25.0	26.6		ug/L		106	60 - 140
Carbon disulfide	ND		25.0	23.3		ug/L		93	38 - 140
Carbon tetrachloride	ND		25.0	27.0		ug/L		108	60 - 140
Chlorobenzene	ND		25.0	26.7		ug/L		107	60 - 140
Chloroethane	ND		25.0	21.8		ug/L		87	51 - 140
Chloroform	ND		25.0	27.0		ug/L		108	60 - 140
Chloromethane	ND		25.0	18.2		ug/L		73	52 - 140
2-Chlorotoluene	ND		25.0	26.3		ug/L		105	60 - 140
4-Chlorotoluene	ND		25.0	26.7		ug/L		107	60 - 140
Chlorodibromomethane	ND		25.0	26.1		ug/L		104	60 - 140
1,2-Dichlorobenzene	ND		25.0	26.9		ug/L		108	60 - 140
1,3-Dichlorobenzene	ND		25.0	26.8		ug/L		107	60 - 140
1,4-Dichlorobenzene	ND		25.0	26.7		ug/L		107	60 - 140
1,3-Dichloropropane	ND		25.0	26.6		ug/L		106	60 - 140
1,1-Dichloropropene	ND		25.0	25.9		ug/L		104	60 - 140

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

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

Lab Sample ID: 720-75500-2 MS

Matrix: Water

Analysis Batch: 212596

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	24.8		ug/L		99	60 - 140
Ethylene Dibromide	ND		25.0	27.1		ug/L		108	60 - 140
Dibromomethane	ND		25.0	26.2		ug/L		105	60 - 140
Dichlorodifluoromethane	ND		25.0	11.9		ug/L		47	38 - 140
1,1-Dichloroethane	ND		25.0	25.5		ug/L		102	60 - 140
1,2-Dichloroethane	ND		25.0	27.1		ug/L		108	60 - 140
1,1-Dichloroethene	ND		25.0	23.3		ug/L		93	60 - 140
cis-1,2-Dichloroethene	ND		25.0	26.5		ug/L		106	60 - 140
trans-1,2-Dichloroethene	ND		25.0	26.2		ug/L		105	60 - 140
1,2-Dichloropropane	ND		25.0	28.2		ug/L		113	60 - 140
cis-1,3-Dichloropropene	ND		25.0	28.1		ug/L		112	60 - 140
trans-1,3-Dichloropropene	ND		25.0	26.1		ug/L		104	60 - 140
Ethylbenzene	ND		25.0	26.2		ug/L		105	60 - 140
Hexachlorobutadiene	ND		25.0	26.4		ug/L		106	60 - 140
2-Hexanone	ND		125	115		ug/L		92	60 - 140
Isopropylbenzene	ND		25.0	26.9		ug/L		108	60 - 140
4-Isopropyltoluene	ND		25.0	26.5		ug/L		106	60 - 140
Methylene Chloride	ND		25.0	24.9		ug/L		100	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	122		ug/L		97	58 - 130
Naphthalene	ND		25.0	25.3		ug/L		97	56 - 140
N-Propylbenzene	ND		25.0	26.4		ug/L		105	60 - 140
Styrene	ND		25.0	26.7		ug/L		107	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	27.5		ug/L		110	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	26.2		ug/L		105	60 - 140
Tetrachloroethene	ND		25.0	27.2		ug/L		109	60 - 140
Toluene	ND		25.0	26.2		ug/L		105	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	26.2		ug/L		104	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	26.5		ug/L		106	60 - 140
1,1,1-Trichloroethane	ND		25.0	26.7		ug/L		107	60 - 140
1,1,2-Trichloroethane	ND		25.0	26.3		ug/L		105	60 - 140
Trichloroethene	ND		25.0	26.5		ug/L		106	60 - 140
Trichlorofluoromethane	ND		25.0	23.2		ug/L		93	60 - 140
1,2,3-Trichloropropane	ND		25.0	25.5		ug/L		102	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	24.8		ug/L		99	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	26.3		ug/L		105	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	26.8		ug/L		107	60 - 140
Vinyl acetate	ND		25.0	23.5		ug/L		94	40 - 140
Vinyl chloride	ND		25.0	19.6		ug/L		78	58 - 140
m-Xylene & p-Xylene	ND		25.0	26.1		ug/L		104	60 - 140
o-Xylene	ND		25.0	26.0		ug/L		104	60 - 140
2,2-Dichloropropane	ND		25.0	27.3		ug/L		109	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	92		72 - 130
Toluene-d8 (Surr)	93		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

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

Lab Sample ID: 720-75500-2 MSD
Matrix: Water
Analysis Batch: 212596

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		
Methyl tert-butyl ether	ND		25.0	27.7		ug/L		111	60 - 138	4	20
Acetone	ND		125	120		ug/L		96	60 - 140	8	20
Benzene	ND		25.0	26.8		ug/L		107	60 - 140	2	20
Dichlorobromomethane	ND		25.0	28.6		ug/L		114	60 - 140	3	20
Bromobenzene	ND		25.0	27.0		ug/L		108	60 - 140	2	20
Chlorobromomethane	ND		25.0	27.7		ug/L		111	60 - 140	3	20
Bromoform	ND		25.0	28.5		ug/L		114	56 - 140	6	20
Bromomethane	ND		25.0	20.3		ug/L		81	23 - 140	1	20
2-Butanone (MEK)	ND		125	124		ug/L		99	60 - 140	5	20
n-Butylbenzene	ND		25.0	27.3		ug/L		109	60 - 140	2	20
sec-Butylbenzene	ND		25.0	27.0		ug/L		108	60 - 140	1	20
tert-Butylbenzene	ND		25.0	27.1		ug/L		108	60 - 140	2	20
Carbon disulfide	ND		25.0	23.8		ug/L		95	38 - 140	2	20
Carbon tetrachloride	ND		25.0	27.8		ug/L		111	60 - 140	3	20
Chlorobenzene	ND		25.0	27.0		ug/L		108	60 - 140	1	20
Chloroethane	ND		25.0	22.0		ug/L		88	51 - 140	1	20
Chloroform	ND		25.0	27.7		ug/L		111	60 - 140	3	20
Chloromethane	ND		25.0	17.8		ug/L		71	52 - 140	2	20
2-Chlorotoluene	ND		25.0	26.7		ug/L		107	60 - 140	2	20
4-Chlorotoluene	ND		25.0	27.2		ug/L		109	60 - 140	2	20
Chlorodibromomethane	ND		25.0	27.2		ug/L		109	60 - 140	4	20
1,2-Dichlorobenzene	ND		25.0	27.3		ug/L		109	60 - 140	2	20
1,3-Dichlorobenzene	ND		25.0	27.3		ug/L		109	60 - 140	2	20
1,4-Dichlorobenzene	ND		25.0	27.3		ug/L		109	60 - 140	2	20
1,3-Dichloropropane	ND		25.0	27.4		ug/L		110	60 - 140	3	20
1,1-Dichloropropene	ND		25.0	26.6		ug/L		106	60 - 140	3	20
1,2-Dibromo-3-Chloropropane	ND		25.0	25.8		ug/L		103	60 - 140	4	20
Ethylene Dibromide	ND		25.0	27.8		ug/L		111	60 - 140	3	20
Dibromomethane	ND		25.0	27.1		ug/L		108	60 - 140	3	20
Dichlorodifluoromethane	ND		25.0	11.3		ug/L		45	38 - 140	4	20
1,1-Dichloroethane	ND		25.0	26.3		ug/L		105	60 - 140	3	20
1,2-Dichloroethane	ND		25.0	28.1		ug/L		113	60 - 140	4	20
1,1-Dichloroethene	ND		25.0	24.1		ug/L		96	60 - 140	3	20
cis-1,2-Dichloroethene	ND		25.0	27.2		ug/L		109	60 - 140	3	20
trans-1,2-Dichloroethene	ND		25.0	26.8		ug/L		107	60 - 140	2	20
1,2-Dichloropropane	ND		25.0	28.9		ug/L		116	60 - 140	2	20
cis-1,3-Dichloropropene	ND		25.0	29.0		ug/L		116	60 - 140	3	20
trans-1,3-Dichloropropene	ND		25.0	27.0		ug/L		108	60 - 140	3	20
Ethylbenzene	ND		25.0	26.8		ug/L		107	60 - 140	2	20
Hexachlorobutadiene	ND		25.0	27.1		ug/L		108	60 - 140	3	20
2-Hexanone	ND		125	121		ug/L		97	60 - 140	5	20
Isopropylbenzene	ND		25.0	27.7		ug/L		111	60 - 140	3	20
4-Isopropyltoluene	ND		25.0	27.1		ug/L		108	60 - 140	2	20
Methylene Chloride	ND		25.0	25.5		ug/L		102	40 - 140	2	20
4-Methyl-2-pentanone (MIBK)	ND		125	127		ug/L		101	58 - 130	4	20
Naphthalene	ND		25.0	27.1		ug/L		105	56 - 140	7	20
N-Propylbenzene	ND		25.0	26.7		ug/L		107	60 - 140	1	20
Styrene	ND		25.0	27.5		ug/L		110	60 - 140	3	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

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

Lab Sample ID: 720-75500-2 MSD
Matrix: Water
Analysis Batch: 212596

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	28.2		ug/L		113	60 - 140	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	27.2		ug/L		109	60 - 140	4	20
Tetrachloroethene	ND		25.0	27.9		ug/L		112	60 - 140	2	20
Toluene	ND		25.0	26.7		ug/L		107	60 - 140	2	20
1,2,3-Trichlorobenzene	ND		25.0	27.6		ug/L		109	60 - 140	5	20
1,2,4-Trichlorobenzene	ND		25.0	27.6		ug/L		110	60 - 140	4	20
1,1,1-Trichloroethane	ND		25.0	27.2		ug/L		109	60 - 140	2	20
1,1,2-Trichloroethane	ND		25.0	27.3		ug/L		109	60 - 140	4	20
Trichloroethene	ND		25.0	27.4		ug/L		109	60 - 140	3	20
Trichlorofluoromethane	ND		25.0	23.3		ug/L		93	60 - 140	0	20
1,2,3-Trichloropropane	ND		25.0	26.5		ug/L		106	60 - 140	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.4		ug/L		102	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		25.0	26.8		ug/L		107	60 - 140	2	20
1,3,5-Trimethylbenzene	ND		25.0	27.1		ug/L		108	60 - 140	1	20
Vinyl acetate	ND		25.0	24.3		ug/L		97	40 - 140	3	20
Vinyl chloride	ND		25.0	19.7		ug/L		79	58 - 140	1	20
m-Xylene & p-Xylene	ND		25.0	26.6		ug/L		106	60 - 140	2	20
o-Xylene	ND		25.0	26.9		ug/L		107	60 - 140	3	20
2,2-Dichloropropane	ND		25.0	27.7		ug/L		111	60 - 140	2	20
Surrogate		MSD	MSD								
		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene		94		67 - 130							
1,2-Dichloroethane-d4 (Surr)		95		72 - 130							
Toluene-d8 (Surr)		94		70 - 130							

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

GC/MS VOA

Analysis Batch: 212596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-75500-1	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-75500-2	GAC	Total/NA	Water	8260B/CA_LUFT MS	
720-75500-3	EFF	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-212596/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-212596/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-212596/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-212596/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-212596/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-75500-2 MS	GAC	Total/NA	Water	8260B/CA_LUFT MS	
720-75500-2 MSD	GAC	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

Client Sample ID: INF

Date Collected: 10/26/16 13:28

Date Received: 10/28/16 17:10

Lab Sample ID: 720-75500-1

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	212596	11/06/16 14:02	LPL	TAL PLS

Client Sample ID: GAC

Date Collected: 10/26/16 13:30

Date Received: 10/28/16 17:10

Lab Sample ID: 720-75500-2

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	212596	11/06/16 15:29	LPL	TAL PLS

Client Sample ID: EFF

Date Collected: 10/26/16 13:32

Date Received: 10/28/16 17:10

Lab Sample ID: 720-75500-3

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	212596	11/06/16 13:33	LPL	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: 720-75500-1

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
-----------------	-------------	--------	---------

- 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: 720-75500-1

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
- 9
- 10
- 11
- 12
- 13
- 14

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-75500-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-75500-1	INF	Water	10/26/16 13:28	10/28/16 17:10
720-75500-2	GAC	Water	10/26/16 13:30	10/28/16 17:10
720-75500-3	EFF	Water	10/26/16 13:32	10/28/16 17:10

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

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: Peter Sims
Lab Contact: Paloma Duong

Date: 10/28/16
Carrier:

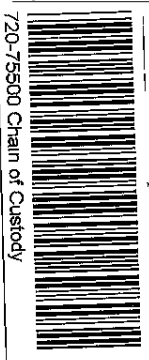
Client Contact
Ninyo & Moore
1956 Webster Street, Ste. 400
Oakland, CA 946501
510-343-3000 Phone
510-343-3001 FAX
Project Name:
Site:
P O #

Sample Identification

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

Sampler:
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Sample Specific Notes:
10/26/2016	1328	G	GW		
10/26/2016	1330	G	GW		
10/26/2016	1332	G	GW		



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.

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 & Comments:

Custody Seals Intact: Yes No
Custody Seal No.:

Cooler Temp. (°C): Obs'd: _____ Cor'd: _____
Therm ID No.:

Relinquished by: *Peter Sims*
Company: *N+M*
Date/Time: *10/28/16 11:40*

Received by: *[Signature]*
Company: *TA*
Date/Time: *10/28/16 10:12*

Relinquished by: _____
Company: _____
Date/Time: _____

Received In Laboratory By: *[Signature]*
Company: *TA*
Date/Time: *10/28/16 1:10*

Form No. CA-C-WI-002 Rev. 4.3, dated 12/05/2013
5800

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-75500-1

Login Number: 75500
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.	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	



APPENDIX D

GROUNDWATER MONITORING DATA SHEETS

MONITORING WELL SAMPLING FORM

Date: 12.1.16

Project Name: Chun Client: Carolyn Fong Job No: 401896004
 Address: 2301 Santa Clara Ave Contact/Phone:
 City/State: Alameda, CA Technician Gauging/Sampling:

Note: All measurements from top of casing. Well Location:

WELL NO. MW-4R	Depth to Liquid (DL): 9.42	
Casing Material: PVC	Depth to Water (DW1): 9.42	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition: Good	Total Well Depth (TD): 25.19	
Well Box Condition: Good	Total head (TH=TD-DW1): 15.07	
Purge Method: Pump	Casing Volume (TH*Factor): 2.54 x 3 = 7.62 gal	
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
1115	2	69.2	0.459	6.92	47.8	1.64	-107	; brownish, petrol odors
1125	4	69.8	0.452	6.86	17.7	1.76	-96	" "
1134	6	68.6	0.502	7.41	0.00	4.19	-108	; clear, petrol odors

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
1140	MW-4										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: 12.1.16

Project Name: Chun Client: Carolyn Fong Job No: 401896004
 Address: 2301 Santa Clara Ave Contact/Phone:
 City/State: Alameda, CA Technician Gauging/Sampling:

Note: All measurements from top of casing. Well Location:

WELL NO. MW-5R	Depth to Liquid (DL): 7.40	Well Location:
Casing Material: PVC	Depth to Water (DW1): 7.40	
Diameter:	Product Thickness (PT=DW1-DL):	
Well Head Condition:	Total Well Depth (TD): 23.01	
Well Box Condition:	Total head (TH=TD-DW1): 16.41	
Purge Method: Pump	Casing Volume (TH*Factor): 2.63 x 3 = 7.88 gal	
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
1409	2.5	68.9	0.738	7.01	17.60	2.03	-108	Black/brown, odor (sewage, pet)
1419	5.0	68.9	0.738	6.89	1.31	1.73	-101	" "
1431	7.5	68.9	0.728	7.17	0.00	2.21	-116	Clear; petrol/sewage odor

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
1435	MW-5										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 12.1.16
--------------------------------------	----------------------

Project Name: Chun	Client: Carolyn Fong Job No: 401896004
Address: 2301 Santa Clara Ave	Contact/Phone:
City/State: Alameda, CA	Technician Gauging/Sampling:

Note: All measurements from top of casing. Well Location:

WELL NO. MW-UR	Depth to Liquid (DL): 7.40	
Casing Material: PVC	Depth to Water (DW1): 7.40	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition: Good	Total Well Depth (TD): 25.24	
Well Box Condition: Good	Total head (TH=TD-DW1): 17.84	
Purge Method: Pump	Casing Volume (TH*Factor): 1.85 x 3 = 8.56	
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
847	3	66.9	0.243	5.06	30.7	4.48	164	cloudy
961	6	66.0	0.245	5.29	0.00	4.65	147	clear
913	9	67.9	0.268	5.31	0.00	2.76	166	clear

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
725	MW6										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: 12.1.14

Project Name: Chun
 Address: 2301 Santa Clara Ave
 City/State: Alameda, CA

Client: Carolyn Fong Job No: 401896004
 Contact/Phone:
 Technician Gauging/Sampling:

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-7R	Depth to Liquid (DL): 7.80
Casing Material: PVC	Depth to Water (DW1): 7.80
Diameter: 2"	Product Thickness (PT=DW1-DL):
Well Head Condition: good	Total Well Depth (TD): 25.26
Well Box Condition: good	Total head (TH=TD-DW1): 17.46
Purge Method: Pump	Casing Volume (TH*Factor): 2.79 x 3 = 8.38 gal
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
1500	2.5	68.6	0.474	6.64	71.7	1.51	-95	black sediment came up
	5.0							light petrol odor, blackish/gray
	7.5							
1510	5.0	68.8	0.4	6.49	73.8	1.39	-80	grayish, light petrol odor
1518	7.5	69.2	0.484	6.81	9.18	1.51	-71	light 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 /MTBE	8260	8010	OTHER
1522	MW-5										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: 12.1.16

Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Ave	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling:	

Note: All measurements from top of casing. Well Location:

WELL NO. MW-8	Depth to Liquid (DL): 8.22	Well Location:
Casing Material: PVC	Depth to Water (DW1): 8.22	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition: Good	Total Well Depth (TD): 14.10	
Well Box Condition: Good	Total head (TH=TD-DW1): 5.88	
Purge Method: Pump	Casing Volume (TH*Factor): 0.941 x 5 = 2.82 gal	
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
752	1	66.9	0.344	6.81				
753	1	67.5	0.345	6.80	45.3	8.91	-95	grayish, gptord
755	2	68.1	0.349	6.78	121	9.01	-95	"
758	3	69.0	0.353	6.76	127	9.06	-83	"

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
0800	MW-8										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 12-1-16
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Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Ave	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling:	

Note: All measurements from top of casing. Well Location:

WELL NO. MW-9	Depth to Liquid (DL): 7.48	Well Location:
Casing Material: PVC	Depth to Water (DW1): 7.48	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition: good	Total Well Depth (TD): 16.78	
Well Box Condition: good	Total head (TH=TD-DW1): 9.30	
Purge Method: Pump	Casing Volume (TH*Factor): 1.49 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)	mg/L DO	mV ORP	Remarks
1313	2	66.3	0.001	5.90	104	8.66	138	cloudy, no odor
1317	4	66.9	0.182	6.25	109	6.87	131	
1321	5	68.1	0.468	6.65	157	4.00	134	

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
1322											

Additional Comments

Missing allen-head bolt for well lid

MONITORING WELL SAMPLING FORM	Date: 12-1-16
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Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Ave	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling:	

Note: All measurements from top of casing. Well Location:

WELL NO. MW-10	Depth to Liquid (DL): 7.39	2.72 gal
Casing Material: PVC	Depth to Water (DW1): 7.39	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition: good	Total Well Depth (TD): 13.05	
Well Box Condition: good	Total head (TH=TD-DW1): 5.66	
Purge Method: Pump	Casing Volume (TH*Factor): 0.91 x 3	
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)	mg/L DO	mV ORP	Remarks
1239	1	74.5	.596	6.91	93.2	4.6	120	clear, no odor
1240	2	71.0	.611	6.73	145	4.93	129	"
1241	3	70.6	.625	6.65	149	4.99	133	"

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
1245	MW10										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: <u>12.1.10</u>
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Project Name: <u>Chun</u>	Client: <u>Carolyn Fong</u>	Job No: <u>401896004</u>
Address: <u>2301 Santa Clara Ave</u>	Contact/Phone:	
City/State: <u>Alameda, CA</u>	Technician Gauging/Sampling:	

Note: All measurements from top of casing.

Well Location:

WELL NO. <u>MW-11R</u>	Depth to Liquid (DL): <u>9.54</u>	3 = 6.90 gal
Casing Material: <u>PVC</u>	Depth to Water (DW1): <u>9.56</u>	
Diameter: <u>2"</u>	Product Thickness (PT=DW1-DL):	
Well Head Condition: <u>Good</u>	Total Well Depth (TD): <u>23.92</u>	
Well Box Condition: <u>Good</u>	Total head (TH=TD-DW1): <u>14.38</u>	
Purge Method: <u>Pump</u>	Casing Volume (TH*Factor): <u>2.30 x</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		

1328

Time	Vol. Purged	Temp [°F/°C]	Cond (µS/cm)	pH	Turb (NTU)	DO (mg/L)	OP (µmV)	Remarks
<u>1305</u>	<u>2</u>	<u>65.2</u>	<u>0.637</u>	<u>6.4</u>	<u>38.7</u>	<u>3.86</u>	<u>-85</u>	<u>; dark grayish, petrol od</u>
<u>1315</u>	<u>4</u>	<u>65.4</u>	<u>0.639</u>	<u>6.35</u>	<u>12.6</u>	<u>3.25</u>	<u>-85</u>	<u>" "</u>
<u>1328</u>	<u>6</u>	<u>66.3</u>	<u>0.642</u>	<u>6.73</u>	<u>0.00</u>	<u>2.68</u>	<u>-86</u>	<u>; Clear, petrol odor</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-s	TPH-p	BTEX /MTBE	8260	8010	OTHER
<u>1331</u>	<u>MW-11</u>										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 12.1.16
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Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Ave	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling:	

Note: All measurements from top of casing. Well Location:

WELL NO. MW-13	Depth to Liquid (DL): 9.80	Well Location:
Casing Material: PVC	Depth to Water (DW1): 9.96	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition: Good	Total Well Depth (TD): 20.33	
Well Box Condition: Good	Total head (TH=TD-DW1): 10.53	
Purge Method: Pump	Casing Volume (TH*Factor): 1.68 x 3 = 5.05	
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)	Remarks
1113	2	65.3	0.899	6.77	—	cloudy; brownish ORP mV 120 mg/L
1117	4	65.8	0.901	6.64	—	cloudy; brownish 90 4.54
1123	5	65.2	0.911	6.74	—	cloudy; brownish 97 3.92

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
1125	MW-13										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 12.1.18
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Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Ave	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling:	

Note: All measurements from top of casing. Well Location:

WELL NO. MW-14	Depth to Liquid (DL): 9.07	
Casing Material: PVC	Depth to Water (DW1): 9.07	
Diameter:	Product Thickness (PT=DW1-DL):	
Well Head Condition: good	Total Well Depth (TD): 11.49	
Well Box Condition: good	Total head (TH=TD-DW1): 2.62	
Purge Method: Pump	Casing Volume (TH*Factor): 0.42 x 3 = 1.26	
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
1056	1	63.9	0.747	6.99	—	ORP mV DO mg/L -109 7.13; petroleum odor; cloudy, gray

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
1100	MW-14										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 12.1.14
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Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Ave	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling:	

Note: All measurements from top of casing. Well Location:

WELL NO. MW-15	Depth to Liquid (DL): 10.13	Well Location:
Casing Material: PVC	Depth to Water (DW1): 10.13	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition: good	Total Well Depth (TD): 29.57	
Well Box Condition: good	Total head (TH=TD-DW1): 19.44	
Purge Method: Pump	Casing Volume (TH*Factor): 3.11 x 3 = 9.33 gal	
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)	ORP (mV)	DO (mg/L)	Remarks
1430	3	67.2	0.737	7.13	23.1	155	4.57	
1438	6	67.84	0.678	7.20	114	141	4.43	
1448	9	67.4	0.636	7.27	114	134	4.38	

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
1452	MW-15										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 12.1.14
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Project Name: Chun	Client: Carolyn Fong	Job No: 401896004
Address: 2301 Santa Clara Ave	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling:	

Note: All measurements from top of casing. Well Location:

WELL NO. MW-16	Depth to Liquid (DL): 9.42	= 9.71 gal
Casing Material: PVC	Depth to Water (DW1): 9.42	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition: good	Total Well Depth (TD): 29.65	
Well Box Condition: good	Total head (TH=TD-DW1): 20.23	
Purge Method: Pump	Casing Volume (TH*Factor): 3.24	
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)	DC mV	OPP mV	Remarks
1357	3	65.0	0.404	6.42	15.8	5.16	40.4	GRT 173
1406	6	65.1	0.476	6.49	18.8	4.87	16.6	
1419	9	65.5	0.444	6.65	14.2	3.52	14.7	

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
1410	MW-16										

Additional Comments
