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May 4, 2016

To: Ms. Dilan Roe
Alameda County Department of Environmental Health
Health Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Perjury Statement
1st Quarter 2016 Quarterly Groundwater Monitoring and
System Evaluation Report
Bill Chun Service Station
2301 Santa Clara Avenue
Alameda, California 94501
SLIC # RO0000382
Geotracker Global ID # T0600100980

I declare, under penalty of perjury, that the information or recommendations contained in the attached report are true and correct to best of my knowledge.

Carolyn Fong, Trustee

Ms. Carolyn Fong
Trustee for Lily A. Chun 1991 Trust
711 E. Hermosa Drive
San Gabriel, California 91775

1ST 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:
Ms. Carolyn C. Fong
Trustee, Lily A. Chun 1991 Trust
720 East Hermosa Drive
San Gabriel, California 91775

PREPARED BY:
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May 4, 2016
Project No. 401896004

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

Subject: 1st Quarter 2016 Groundwater Monitoring and System Evaluation Report
2301 Santa Clara Avenue
Alameda, California
Fuel Leak Case # RO0000382
GeoTracker Global ID # T0600100980

Dear Ms. Fong:

Ninyo & Moore is pleased to present this 1st Quarter 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,
NINYO & MOORE

Emily Dirksen
Staff Environmental Scientist

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Project Environmental Geologist

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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 are performed to address the site's subsurface petroleum hydrocarbon impact. This 1st 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 1st Quarter 2016 relating to the site's remediation system O&M, and present the findings for the groundwater sample collection and analysis of the site's contaminants of concern (COCs), which primarily include total petroleum hydrocarbons as gasoline (TPHg) and benzene. This report also discusses the COC groundwater plumes and bioattenuation parameter trends.

1.2. Site Description

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

1.3. Site Background

The site is a former gasoline service station, and has been the subject of subsurface assessments, remedial actions, groundwater monitoring, and closure petitions since 1993, when three underground storage tanks (USTs) were removed. The site is listed as a Leaking

Underground Storage Tank (LUST) facility in the State Water Resources Control Board (SWRCB) GeoTracker database and as a Leaking Underground Fuel Tank (LUFT) and Spills, Leaks, Investigation and Cleanup (SLIC) facility in the ACEH database.

Several groundwater monitoring wells were installed on the site in separate occasions during 1993 and 2005. All wells installed in 1993 were either properly abandoned or redeveloped in 2012 for monitoring purposes. Injection wells were installed in 2002, 2004, and 2014, with all 2004 and one 2002 well redeveloped in 2014. The remaining 2002 wells were abandoned. Extraction wells were installed in 2014. An inventory of all of the site's wells is presented in Table 1. Between October and November 2014, the remediation system was installed at the site (Figures 3, 4, and 5). The remediation system started 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 1st Quarter 2016 were performed by Ninyo & Moore from January 13, 2016 through March 24, 2016. 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. In addition, five gallons of EZT-EA biosurfactant and 50 pounds of Custom Blend Nutrient (CBN) nutrient mix were added to the mixing tank during each biweekly O&M event in January and March 2016. In order to increase nutrient availability for bioattenuation and mobilize contaminants remaining adsorbed to soil, the amount of CBN nutrient mix and EZT-EA surfactant added to the mixing tank in February 2016 O&M events were increased. In February 2016, a total of 400 pounds of CBN nutrient mix and 40 gallons of EZT-EA surfactant were added to the mixing tank. Ninyo & Moore continues to add biosurfactant to the remediation system in order to desorb and mobilize contaminants.

3.2. Monthly O&M

On January 28, February 25, and March 24, 2016, 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 includes 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 increased in January and February and decreased slightly in March. Concentrations of benzene in samples collected at INF remained stable in January, decreased in February, and increased in March. The increasing trends are likely caused by the dilute hydrogen peroxide injection that took place in December 2015 and the increased amount of EZT-EA surfactant added to the mixing tank in February 2016, both of which were intended to mobilize contaminants remaining adsorbed to soil. Desorption of contaminants from soil generates increased concentrations of dissolved contaminants in groundwater, which are captured by the remediation system.

The samples collected at GAC and EFF were non-detect for the site COCs analyzed. This indicates the lead GAC vessel is effectively treating the influent water, and the amended water pumped back into the subsurface contains no detectable concentrations of site COCs. In addition, change out of the granulated carbon in the lead GAC vessel is not yet needed.

3.3. Bag Filter Change Out and Remediation System Maintenance

The remediation system's bag filters were changed out on January 15 and 22, February 10 and 23, and March 7, 2016, due to elevated pressure readings. During these change outs, a reddish-brown bacterial slime was observed in the bag filters, which is evidence of biofouling. The slimy consistency is attributed to bacterial growth and the reddish brown color signifies ferric iron precipitate. Biofouling in the bag filters is expected and indicates the remediation system is operating properly by encouraging bacterial growth. The used bag

filters are securely stored in the site's garage pending proper waste characterization and offsite disposal.

On January 22, 2016, Northstate Earth and Water disassembled and cleaned the EW-20 flow meter, which had been biofouled with reddish-brown bacterial growth. The EW-20 extraction pump was removed from the well casing, disassembled, and cleaned of reddish-brown bacterial growth as well. With the EW-20 flow meter and extraction pump cleaned and reassembled, proper groundwater extraction resumed immediately. The initial groundwater extracted from EW-20 after cleaning was reddish-brown, but after a short period became clear indicating that the cleaning was successful in removing the biofouling.

4. GROUNDWATER MONITORING

Ninyo & Moore conducted the 1st Quarter 2016 groundwater monitoring event on February 2 and 3, 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 1st 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 and benzene are illustrated on Figures 7 and 8, respectively. Groundwater elevation data is summarized in Table 3, and groundwater sample analytical results are presented in Table 4 and Table 5. Trends in TPHg concentrations in groundwater for select wells are presented on Graph 1. Trends in benzene concentrations in groundwater for select wells are presented on Graph 2.

5.1. Depth to Groundwater and Groundwater Flow Direction

The groundwater level measurements and the calculated groundwater elevations are presented in Table 3. Groundwater elevation contours are shown on Figure 6. Based on the contours shown on Figure 6, the groundwater gradient appears to be strongly influenced by the operation of the remediation system. Groundwater elevation has been historically highest at MW-7R since the remediation system began operation, and continues to be highest during the 1st Quarter 2016 Groundwater Monitoring event. 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, 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) Tier 1 Environmental Screening Levels (ESLs), dated February 2016 (Revision 2)[1]. As discussed in Section 7, the remedial action objectives are to meet the criteria established in the SWRCB *Low-Threat Underground Storage Tank Case Closure Policy*, adopted May 1, 2012.

5.2.1. Total Petroleum Hydrocarbons as Gasoline in Groundwater

Concentrations of TPHg in shallow groundwater are presented on Figure 7. The ESL for TPHg is 100 micrograms per liter (µg/L). TPHg was not detected above the laboratory reporting limit of 50 µg/L in wells MW-9, MW-10, MW-13, MW-15, and MW-16. TPHg was reported at concentrations ranging from not detected above the laboratory reporting limit to 58,000 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:

- TPHg concentrations in groundwater samples collected from wells MW-5R, MW-8, MW-12, and MW-14 have increased since the 4th Quarter 2015 (previous) monitoring event. On December 12, 2015, a dilute solution of hydrogen peroxide was added to the system in order to further desorb contaminant mass from the soil. The increase in TPHg concentrations in groundwater is likely due to desorption from the soil caused by the dilute hydrogen peroxide injection.

- TPHg concentrations in groundwater samples collected from wells MW-4R, MW-6R, and MW-11R have decreased since the previous monitoring event. MW-4R and MW-6R represent wells on the edge of the contaminated groundwater plume.

[1] Previous groundwater monitoring results were compared against earlier versions of the ESLs.

Decreases in TPHg concentrations in these wells are indicative that progress is being made in shrinking the overall size of the plume.

- The TPHg concentration in the groundwater sample collected from well MW-7R has remained constant from the previous monitoring event. Monitoring well MW-7R historically represents the most contaminated area of the site and generally has steadily decreased in TPHg concentration. While TPHg concentration did not decrease during this monitoring event, it is expected to decrease in future monitoring events as the recently desorbed TPHg mass is remediated.

5.2.2. Benzene in Groundwater

Benzene concentrations in shallow groundwater are presented on Figure 8. The ESL for benzene is 1.0 µg/L. Benzene was not detected above the laboratory reporting limit in wells MW-9, MW-10, MW-13, MW-15, and MW-16. Benzene was reported at concentrations ranging from not detected above the laboratory reporting limit to 1,200 µg/L (well MW-7R).

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:

- Benzene concentrations in groundwater samples collected from wells, MW-7R, MW-12, and MW-14 have increased since the previous monitoring event. On December 12, 2015, a dilute solution of hydrogen peroxide was added to the system in order to further desorb contaminant mass from the soil. The increase in benzene concentrations in groundwater is likely due to desorption from the soil caused by the dilute hydrogen peroxide injection.

- Benzene concentrations in groundwater samples collected from wells MW-4R, MW-5R, MW-6R, and MW-11R 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, naphthalene, and 1,2-dichloroethane.

- The concentrations of toluene reported ranged from not detected above the laboratory reporting limit to 14,000 µg/L in MW-7R.
- The concentrations of ethylbenzene reported ranged from not detected above the laboratory reporting limit to 2,700 µg/L in MW-5R.
- The concentrations of total xylenes reported ranged from not detected above the laboratory reporting limit to 18,000 µg/L in MW-5R.
- The concentrations of naphthalene reported ranged from not detected above the laboratory reporting limit to 640 µg/L in MW-5R.
- The concentrations of 1,2-dichloroethane reported ranged from not detected above the laboratory reporting limit to 2.8 µg/L in MW-12.

5.2.4. Bioattenuation Parameters

Groundwater samples were submitted for laboratory analysis of iron, manganese, potassium, nitrate, nitrite, phosphate, sulfate, 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 remediating the site's groundwater plume can occur in either aerobic or anaerobic conditions, which is generally indicated by positive or negative ORP values, respectively. Aerobic bioattenuation takes place as aerobic respiration and is evaluated by DO concentrations. Anaerobic bioattenuation takes place as anaerobic respiration and occurs in five typical stages: denitrification, manganese reduction, ferric iron reduction, sulfate reduction, and methanogenesis.

5.2.4.1. Oxidation Reduction Potential

ORP is a measure of electron activity and is an indicator of the relative tendency of a solute species to gain or lose electrons. ORP values in groundwater generally range from -400 millivolts (mV) to 800 mV (USEPA, 2004). Positive ORP values in groundwater are generally indicative of aerobic reducing conditions and negative ORP values are generally indicative of anaerobic reducing conditions. ORP values

recorded during the 1st Quarter 2016 monitoring event ranged from -117 mV to 195 mv. Since the remediation system startup, ORP values have overall remained positive or trended toward more positive values. This is likely the result of the addition of dissolved oxygen in the amended water supplied to the subsurface by the remediation system. Notably, ORP values for MW-5R and MW-7R at 57 and 170 mV, respectively, were positive for the first time since Ninyo & Moore began monitoring in June 2014.

5.2.4.2. Dissolved Oxygen

DO is the most thermodynamically favored electron acceptor in the bioattenuation of petroleum hydrocarbons. Because water monitored for DO is easily oxygenated, it is difficult to accurately quantify DO. Therefore, individual DO concentrations are evaluated relative to the range of DO concentrations recorded during a groundwater monitoring event (USEPA, 2004). DO concentrations recorded during the 1st Quarter 2016 monitoring event ranged from 3.27 milligrams per liter (mg/L) to 8.84 mg/L. All of the measured levels of DO are relatively high and considered favorable to aerobic respiration and oxidation of petroleum hydrocarbons. The measured levels of DO have increased from the previous quarter indicating that the remediation system has increased the area where DO is available for use as the primary electron acceptor in the bioattenuation of petroleum hydrocarbons.

5.2.4.3. Nitrate

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

event prior to remediation system startup. Nitrite[2] concentrations observed since the previous monitoring event have generally decreased or remained stable. Nitrogen concentrations have increased relative to the previous monitoring event in monitoring wells MW-5R, MW-6R, and MW-11R, MW-13, while nitrogen concentrations in the remaining wells have decreased or remained stable. The increasing nitrate concentrations are due to the addition of CBN to the groundwater remediation system, while reductions of nitrate concentrations represent microbial utilization.

5.2.4.4. Ferric Iron

Ferric iron can be reduced to ferrous iron after DO and nitrate are depleted in anaerobic reducing conditions in groundwater. Ferrous iron is soluble in water and its presence in groundwater samples is an indication that reduction of ferric iron has occurred (USEPA, 2004). The concentration of ferrous iron reported in wells ranged from non-detect to concentrations of 2.8 mg/l in MW-11R and 11 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 indicate that ferric iron is being reduced to ferrous iron due to microbial utilization in the subsurface.

5.2.4.5. Manganese

Manganese (IV) oxide can be reduced to manganese (II) by anaerobic bioattenuation after DO, nitrate, and ferric iron are depleted. The presence of manganese (II) in groundwater samples is an indication that reduction of manganese (IV) oxide has occurred (USEPA, 2004). The concentrations of manganese (II) reported in wells ranged from 0.28 mg/L in MW-10 to 2.0 mg/L in

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

MW-7R. The detected manganese (II) concentrations indicate that manganese (IV) oxide is being reduced to manganese (II) due to microbial utilization. However, at this time, an inverse relationship between manganese and petroleum hydrocarbon concentrations has not been established indicating that aerobic reducing conditions dominate, followed by the more preferential anaerobic reducing mechanisms (nitrate and ferric iron reduction).

5.2.4.6. Sulfate

Sulfate can be consumed by anaerobic bioattenuation after DO, nitrate, ferric iron, and manganese are depleted. Sulfate concentrations that vary inversely with petroleum hydrocarbon concentrations are indicative of anaerobic bioattenuation (USEPA, 2004). However, the addition of DO and nitrate to the subsurface via the amended injection water is expected to inhibit the use of sulfate as an electron acceptor. At this time, an inverse relationship between sulfate and petroleum hydrocarbon concentrations has not been established indicating that aerobic reducing conditions dominate, followed by the more preferential anaerobic reducing mechanisms (nitrate and ferric iron reduction).

5.2.4.7. Methane

Methanogenesis is the final step in the anaerobic bioattenuation process. When all soluble electron acceptors (DO, nitrate, ferric iron, manganese, and sulfate) are depleted, groundwater conditions become conducive to generation of methane due to reduction of carbon dioxide. Similarly to sulfate, an inverse relationship between methane and petroleum hydrocarbon concentrations would be indicative of anaerobic bioattenuation of carbon dioxide (USEPA, 2004). Because sulfate reducing conditions have not been observed, it is unlikely that carbon dioxide is being reduced, and therefore, methane is not currently included in the monitored bioattenuation analytes.

5.2.4.8. Bioattenuation Summary

Overall, the monitored wells are trending toward ORP values that remain positive or are trending toward more positive indicating a gradual shift toward stronger aerobic bioattenuation. A good example of this trend is well MW-5R. The wells exhibiting negative or trends to negative values generally are outside the area in which the remediation system is injecting amended water (e.g. MW-8). In addition, wells located in areas that had relatively lower recorded DO levels likely represent microbial consumption of DO at a rate exceeding that at which it is replenished by the remediation system. Anaerobic reducing conditions appears to be taking place across the site, though less strongly in the center of the site than before where aerobic bioattenuation appears to be becoming stronger. 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 percentage recoveries were within the specific acceptance limits for these types of samples. Groundwater MS and MSD recoveries were outside of the acceptance limit so the analytical batch was validated by the LCS. Therefore the relevant QA/QC results were satisfactory and acceptable.

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 5 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 that formerly had detectable concentrations of COCs, which have been non-detect since at least January 2015. The areal extent of the contaminated groundwater has appeared to

decrease in the north-south direction based on separation of the plume between MW-4R and MW-8, which is influenced by the groundwater extraction occurring at well EW-20. 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 180 feet long. Operation of the remediation system appears to have cut off the southern end of the plume between MW-4R and MW-8, thereby reducing the total length of the plume. Continued reductions in overall concentrations of COCs in the contaminated groundwater plume are expected to lead to overall decreases in the length of the plume in the future in order to meet this condition.

- **Benzene concentrations in groundwater in the remaining contaminant plume will be less than 1,000 µg/L –** The maximum concentration of benzene detected in the contaminated groundwater plume has decreased from 18,000 µg/L in June 2014, to 1,200 µg/L in November 2015. This greater than tenfold reduction in the maximum concentration of benzene shows significant progress toward meeting this condition.

- **Benzene, ethylbenzene, and naphthalene concentrations in soil 5 to 10 feet below ground surface (bgs) will be less than the concentrations presented in Table 8 of the CAP (Ninyo & Moore, 2013a) –** Continued operation of the remediation system is expected to meet this condition. Confirmation soil samples will be collected following the completion of the remedial action to evaluate this criterion.

8. CONCLUSIONS

Ninyo & Moore presents the following conclusions:

- Remediation system O&M activities were performed biweekly between January 13 and March 24, 2016. Biweekly and monthly O&M activities included monitoring the remediation system for proper operation and adding biological amendments (CBN nutrient mix and EZT-EA surfactant) to the remediation system. In order to increase nutrients available for bioattenuation and mobilize contaminants remaining adsorbed to soil, the amount of CBN nutrient mix and EZT-EA surfactant added to the mixing tank in February 2016 O&M was increased. In February 2016, a total of 400 pounds of CBN nutrient mix and 40 gallons of EZT-EA surfactant were added to the mixing tank. Because of elevated pressure readings observed on the bag filter assembly due to biofouling, the bag filters were changed out on January 15, January 22, February 10, February 23, and March 7, 2016. On January 22, 2016, the EW-20 flow meter and extraction pump were disassembled and cleaned of biofouling.

- Collection of remediation system samples was performed monthly on January 28, February 25, and March 24, 2016. Analysis of remediation system samples indicated that the remediation system is operating properly and the lead GAC vessel does not yet require change out.

- 1st Quarter 2016 groundwater monitoring and sample collection was performed on February 2 and 3, 2015.

    - Based on depth to water measurements collected during the 1st 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 through MW-7R, MW-8, MW-11R, MW-12, MW-13, MW-14, MW-15, and MW-16.

    - Monitoring wells MW-4R, MW-6R, MW-7R, MW-11R, and have decreased or stable TPHg concentrations; MW-5R, MW-8, MW-12, and MW-14 have increased or stable TPHg concentrations; and MW-9, MW-10, MW-13, MW-15, and MW-16 remained non-detect for TPHg.

    - Monitoring wells and MW-4R, MW-5R, MW-6R, MW-8, MW-11R, MW-12, and MW-14 have decreased or stable benzene concentrations;, MW-7R, MW-12, and MW-14 have increased benzene concentrations; and MW-9, MW-10, MW-13, MW-15, and MW-16 remained 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 being remediated. The area of the TPHg and benzene dissolved phase groundwater plume reduced in the north-south direction and in the east-west direction compared to the groundwater monitoring event performed before remediation system startup in June of 2014. Concentrations of TPHg and benzene in wells still remain relatively high indicating that operation of the remediation system should continue.

    - Aerobic bioattenuation is the main driver of the remediation process in the groundwater plume. Anaerobic bioattenuation is occurring secondarily. Since the remediation system is supplying DO and nitrate to the subsurface through amended water injection, and DO reduction is thermodynamically preferred followed by nitrate reduction, the remediation system is operating as expected.

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. However, because of the continued addition of DO to the subsurface, anaerobic reducing conditions are increasingly unlikely. These conditions are indicated by analysis of groundwater samples for sulfate and manganese as well as the bacterial nutrients potassium and phosphate. Sulfate and manganese reduction do not appear to be significant contributors to the bioattenuation of site COCs in groundwater. Therefore, Ninyo & Moore recommends that future quarterly groundwater monitoring should exclude analysis of groundwater samples for sulfate, manganese, potassium, and phosphate.

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 impact on the groundwater plume of the increased amounts of CBN nutrient mix (400 pounds) and EZT-EA surfactant (40 gallons) added to the remediation system in February 2016 will be evaluated in the 2nd Quarter 2016 Groundwater Monitoring Report.

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, December 2013.

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 evluate 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	14,490	1.2	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	
Totals	**716,040**		**1,247,680**		**2,850**	**200**	

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)	(gpm)
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	14,490	--	--	--	--	--	--	2,980	2,980	0.21	3,600	2,865	0.20	4,930	3,900	0.27	5,280	4,410	0.30	4,590	3,690	0.25
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

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)	(gpm)
11/21/14 14:00	0	0	--	--	0	--	--	0	--	--
11/22/14 8:00	1,080	420	420	0.39	250	250	0.23	200	200	0.19
11/23/14 8:50	1,490	1,750	1,330	0.89	930	680	0.46	670	470	0.32
11/24/14 7:30	1,360	2,750	1,000	0.74	1,450	520	0.38	1,280	610	0.45
12/2/14 12:30	11,820	--	--	--	--	--	--	--	--	--
12/4/14 9:00	14,490	13,130	10,380	0.72	2,210	760	0.05	7,710	6,430	0.44
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

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-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-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	

TABLE 3 - GROUNDWATER ELEVATION DATA

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-6R	05/10/12	28.07	25.22	7.21	7.21	0.00	20.86	NA	NA	2" Diameter well
MW-6R	11/14/12	28.07	25.20	8.31	8.31	0.00	19.76	Decrease	-1.10	
MW-6R	04/17/13	28.07	24.90	7.60	7.60	0.00	20.47	Rise	0.71	
MW-6R	06/25/14	28.07	24.87	8.49	8.49	0.00	19.58	Decrease	-0.89	
MW-6R	12/04/14	28.07	24.90	7.40	7.40	0.00	20.67	Rise	1.09	
MW-6R	12/31/14	28.07	24.90	6.00	6.00	0.00	22.07	Rise	1.40	
MW-6R	01/22/15	28.07	24.90	7.00	7.00	0.00	21.07	Decrease	-1.00	
MW-6R	02/19/15	28.07	24.90	7.05	7.05	0.00	21.02	Decrease	-0.05	
MW-6R	06/11/15	28.07	25.18	7.78	7.78	0.00	20.29	Decrease	-0.73	
MW-6R	08/11/15	28.07	25.18	8.20	8.20	0.00	19.87	Decrease	-0.42	
MW-6R	11/10/15	28.07	25.13	8.74	8.74	0.00	19.33	Decrease	-0.54	
MW-6R	02/02/16	28.07	24.94	6.05	6.05	0.00	22.02	Rise	2.69	
MW-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-8	05/10/12	28.01	14.16	7.74	7.74	0.00	20.27	NA	NA	2" Diameter well
MW-8	11/14/12	28.01	14.15	8.09	8.09	0.00	19.92	Decrease	-0.35	
MW-8	04/17/13	28.01	14.00	7.68	7.68	0.00	20.33	Rise	0.41	
MW-8	06/25/14	28.01	13.84	8.25	8.25	0.00	19.76	Decrease	-0.57	
MW-8	12/05/14	28.01	13.85	7.45	7.45	0.00	20.56	Rise	0.80	
MW-8	12/31/14	28.01	14.00	7.55	7.55	0.00	20.46	Decrease	-0.10	
MW-8	01/22/15	28.01	14.00	7.90	7.90	0.00	20.11	Decrease	-0.35	
MW-8	02/19/15	28.01	14.00	7.85	7.85	0.00	20.16	Rise	0.05	
MW-8	06/11/15	28.01	14.26	8.34	8.34	0.00	19.67	Decrease	-0.49	
MW-8	08/11/15	28.01	14.24	8.69	8.69	0.00	19.32	Decrease	-0.35	
MW-8	11/10/15	28.01	14.19	9.02	9.02	0.00	18.99	Decrease	-0.33	
MW-8	02/02/16	28.01	13.89	7.78	7.78	0.00	20.23	Rise	1.24	

TABLE 3 - GROUNDWATER ELEVATION DATA

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-9	05/10/12	27.23	15.09	6.25	6.25	0.00	20.98	NA	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-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-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	

TABLE 3 - GROUNDWATER ELEVATION DATA

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-12	05/10/12	28.73	24.37	7.96	7.96	0.00	20.77	NA	NA	2" Diameter well
MW-12	11/14/12	28.73	24.35	9.37	9.37	0.00	19.36	Decrease	-1.41	
MW-12	04/17/13	28.73	24.30	9.10	9.10	0.00	19.63	Rise	0.27	
MW-12	06/26/12	28.73	24.33	8.86	8.86	0.00	19.87	Rise	0.24	
MW-12	12/04/14	28.73	24.35	9.95	9.95	0.00	18.78	Decrease	-1.09	
MW-12	12/31/14	28.73	24.35	8.20	8.20	0.00	20.53	Rise	1.75	
MW-12	01/23/15	28.73	24.35	8.80	8.80	0.00	19.93	Decrease	-0.60	
MW-12	02/16/15	28.73	24.35	9.50	9.50	0.00	19.23	Decrease	-0.70	
MW-12	06/12/15	28.73	24.56	10.03	10.03	0.00	18.70	Decrease	-0.53	
MW-12	08/10/15	28.73	24.59	10.82	10.82	0.00	17.91	Decrease	-0.79	
MW-12	11/11/15	28.73	24.58	11.12	11.12	0.00	17.61	Decrease	-0.30	
MW-12	02/03/16	28.73	24.31	8.14	8.14	0.00	20.59	Rise	2.98	
MW-13	05/10/12	29.21	20.02	8.57	8.57	0.00	20.64	NA	NA	2" Diameter well
MW-13	11/14/12	29.21	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-13	04/17/13	29.21	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-13	06/26/14	29.21	20.02	9.87	9.87	0.00	19.34	NA	NA	
MW-13	12/04/14	29.21	20.00	9.25	9.25	0.00	19.96	Rise	0.62	
MW-13	12/31/14	29.21	NM	NM	NM	NM	NA	NA	NA	Property closed, couldn't access well.
MW-13	01/23/15	29.21	20.00	11.20	11.20	0.00	18.01	Decrease	-1.95	
MW-13	02/20/15	29.21	20.00	11.55	11.55	0.00	17.66	Decrease	-0.35	
MW-13	06/12/15	29.21	20.28	9.39	9.39	0.00	19.82	Rise	2.16	
MW-13	08/10/15	29.21	20.32	9.87	9.87	0.00	19.34	Decrease	-0.48	Turbidity flashed 0.0
MW-13	11/11/15	29.21	20.32	10.26	10.26	0.00	18.95	Decrease	-0.39	
MW-13	02/03/16	29.21	20.02	9.29	9.29	0.00	19.92	Rise	0.97	
MW-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	

TABLE 3 - GROUNDWATER ELEVATION DATA

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-15	05/10/12	28.53	29.70	7.90	7.90	0.00	20.63	NA	NA	2" Diameter well
MW-15	11/14/12	28.53	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-15	04/17/13	28.53	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-15	06/26/14	28.53	29.39	9.85	9.85	0.00	18.68	NA	NA	
MW-15	12/05/14	28.53	29.57	9.39	9.39	0.00	19.14	Rise	0.46	
MW-15	12/31/14	28.53	29.4	7.95	7.95	0.00	20.58	Rise	1.44	
MW-15	01/23/15	28.53	29.4	8.85	8.85	0.00	19.68	Decrease	-0.90	
MW-15	02/20/15	28.53	29.4	9.05	9.05	0.00	19.48	Decrease	-0.20	
MW-15	06/12/15	28.53	29.64	9.85	9.85	0.00	18.68	Decrease	-0.80	
MW-15	08/10/15	28.53	29.69	10.38	10.38	0.00	18.15	Decrease	-0.53	Turbidity flashed "0.0"
MW-15	11/11/15	28.53	29.68	11.38	11.38	0.00	17.15	Decrease	-1.00	
MW-15	02/03/16	28.53	29.36	8.04	8.04	0.00	20.49	Rise	3.34	
MW-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	
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	

TABLE 3 - GROUNDWATER ELEVATION DATA

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
EW-15	05/10/12	28.66	24.50	8.06	8.06	0.00	20.60	NA	NA	4" Diameter well
EW-15	11/14/12	28.66	NM	NM	NM	ND	NA	NA	NA	Not Sampled and only gauged for LPH
EW-15	04/17/13	28.66	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
EW-15	06/25/14	28.66	24.14	9.03	9.03	0.00	19.63	NA	NA	
EW-15	12/05/14	28.66	NM	NM	NM	ND	NA	NA	NA	Converted to an injection well
EW-15	12/31/14	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	01/23/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	02/20/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	06/11/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	08/10/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	11/11/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	02/03/16	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-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-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	

TABLE 3 - GROUNDWATER ELEVATION DATA

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
EW-18	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-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-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-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	

TABLE 3 - GROUNDWATER ELEVATION DATA

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
EW-22	06/26/14	28.47	23.86	8.91	8.91	0.00	19.56	NA	NA	4" Diameter well
EW-22	12/05/14	28.47	NM	NM	NM	ND	NA	NA	NA	Converted to an extraction well
EW-22	12/31/14	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	01/23/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	02/20/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	06/11/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	08/10/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	11/11/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	02/03/16	28.47	NM	NM	NM	ND	NA	NA	NA	

Date	Gradient and Groundwater Flow Direction		Average Groundwater Elevation (feet MSL)	Change in Average GW Elevation (feet)
05/10/12	0.002	SW	20.72	NA
11/14/12	0.004	NE	19.78	-0.94
04/17/13	0.005/ 0.012	WSW/ NE	20.46	0.68
06/26/14	Varies	Varies	19.60	-0.85
12/05/14	Varies	Varies	20.15	0.55
12/31/14	Varies	Varies	21.24	1.10
01/23/15	Varies	Varies	20.35	-0.89
02/20/15	Varies	Varies	20.21	-0.14
06/12/15	Varies	Varies	19.61	-0.61
08/10/15	Varies	Varies	19.05	-0.56
11/11/15	Varies	Varies	18.51	-0.54
2/3/2016	Varies	Varies	20.91	2.40

Notes:

Top-of-Casing (TOC) elevations were surveyed by Virgil Chavez Land Surveying on May 10, 2012.

MSL=Mean Sea Level

NM = Not Measured

NA = Not Applicable

ND = Not Detected

TABLE 4 - SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

TPHg and VOCs

Monitoring Well/Sample ID	Sample Date	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	<25	1,100	310	30	<25	<25	<25	<25	<25	<25	96	51	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-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	0.33 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	0.59J	<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	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	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-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-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-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-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	0.80	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	<0.50	<0.50	<0.50	<0.50	9.9	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	6.30	2.4	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	20	2.3	21	4.1	<0.50	<1.0	<0.50
MW-8	12/31/2014	**960**	**9.8**	5.9	2.0	12	<10	**34**	<0.50	<0.50	<0.50	<0.50	<0.50	0.70	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	12	1.4	13	2.3	<0.50	<1.0	<0.50
MW-8	1/22/2015	**1,400**	**7.8**	7.7	2.7	15	<10	**45**	<0.50	<0.50	<0.50	<0.50	<0.50	0.74	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	14	1.4	14	2.4	<0.50	<1.0	<0.50
MW-8	2/19/2015	**1,600**	**7.2**	7.8	2.8	16	22	**50**	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	15	1.6	16	2.6	<0.50	<1.0	<0.50
MW-8	6/11/2015	**1,400**	**6.6**	9.8	2.9	17	<10	**39**	<0.50	<0.50	<0.50	<0.50	<0.50	0.81	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	17	1.7	16	3.1	<0.50	<1.0	<0.50
MW-8	8/11/2015	**1,600**	**15**	15	3.7	**23**	18	**83**	<0.50	<0.50	<0.50	<0.50	<0.50	1.10	<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

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-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
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
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	<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	<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	<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	<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	<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	<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	1.3	<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	<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
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
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
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	<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	<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	<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	<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	<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	1.5	<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	<0.50	<1.0	<0.50
MW-11R	5/10/2012	**22,000**	<25	**170**	**910**	**6,300**	<500	**440**	<25	<25	<25	<25	2,500	760	58	<25	<25	40	<25	<25	<25	92	<25	240	<25	<25	<25	<25
MW-11R	11/14/2012	**29,000**	**2.6**	**330**	**1,400**	**9,700**	<100	**660**	<5.0	<5.0	<5.0	<5.0	4,000	950	<5.0	<5.0	<5.0	36	<5.0	<5.0	<5.0	170	88	450	27	<5.0	<5.0	<5.0
MW-11R	4/17/2013	**22,000**	<5.0	6.5	**580**	**3,970**	<100	**280**	<5.0	<5.0	<5.0	<5.0	2,600	720	<5.0	<5.0	<5.0	25	<5.0	<5.0	<5.0	110	61	320	<5.0	<5.0	<5.0	<5.0
MW-11R	6/25/2014	**15,000**	<5.0	<5.0	**260**	**1,130**	<100	**280**	<5.0	<5.0	<5.0	<5.0	2,100	580	45	<5.0	<5.0	11	<5.0	<5.0	<5.0	72	<5.0	220	18	<5.0	<5.0	<5.0
MW-11R	12/4/2014	**21,000**	<50	**340**	**520**	**5,100**	<1,000	**320**	<50	<50	<50	<50	2,100	680	<100	<50	<100	<100	<50	--	<100	71	<100	170	<100	<50	<100	<50
MW-11R	12/31/2014	**23,000**	<50	**240**	**480**	**5,400**	<1,000	**350**	<50	<50	<50	<50	2,300	680	<100	<50	<100	<100	<50	--	<100	71	<100	190	<100	<50	<100	<50
MW-11R	1/22/2015	**20,000**	<50	**330**	**730**	**5,100**	<1,000	**350**	<50	<50	<50	<50	2,200	600	<100	<50	<100	<100	<50	--	<100	80	<100	200	<100	<50	<100	<50
MW-11R	2/20/2015	**25,000**	<50	**580**	**980**	**6,700**	<1,000	**380**	<50	<50	<50	<50	2,500	670	<100	<50	<100	<100	<50	--	<100	87	<100	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	<50	2,900	770	<100	<50	<100	<100	<50	--	<100	120	<100	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	<50	2,800	670	<100	<50	<100	<100	<50	--	<100	100	<100	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	<50	1,900	460	<100	<50	<100	<100	<50	--	<100	83	<100	220	<100	<50	<100	<50
MW-11R	2/3/2016	**25,000**	**970**	**1,600**	**900**	**5,800**	<1,000	**280**	<50	<50	<50	<50	1,700	430	<100	<50	<100	<100	<50	--	<100	57	<100	150	<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-12	5/10/2012	**2,700**	**600**	4.7	**160**	**207**	<10	**26**	<0.50	<0.50	<0.50	<0.50	13	23	0.60	<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	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	1.6 J	<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	4.0	<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	<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	<2.5	6.7	<5.0	<2.5	<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	<2.5	12	<5.0	<2.5	<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	1.6	<0.50	<1.0	<0.5
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	0.48J	**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-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	--	<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	70	<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

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-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	3.0	<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	8.0	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-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	4.0	<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
MW-16	2/3/2016	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	0.94	**0.92**	<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
EW-14	5/10/2012	**33,000**	**4,200**	**3,300**	**2,200**	**10,100**	<500	**280**	<25	<25	<25	<25	1,200	300	<25	<25	<25	<25	<25	<25	<25	73	<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	<10	79	26	<10	<10	<10	<10	<10	<10	<10	53	11	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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-15	5/10/2012	**34,000**	**6,300**	**6,500**	**1,200**	**5,600**	<500	**160**	<25	<25	<25	<25	690	180	<25	<25	<25	<25	<25	<25	<25	41	<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	<25	420	110	<25	<25	<25	<25	<25	<25	<25	63	16J	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-16	5/10/2012	**360**	**40**	1.6	1.3	11.4	<10	**10**	0.86	**0.60**	<0.50	<0.50	3.5	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	9.3	<0.5	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-17	5/10/2012	**11,000**	**2,800**	**1,600**	**240**	**1,280**	<500	**210**	<25	<25	<25	<27	160	50	<25	<25	<25	<25	<25	<25	<25	52	<25	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	<5.0	200	64	19	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	79	23	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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-18	6/25/2014	**21,000**	**140**	23	**1,100**	**3,960**	<50	**480**	<2.5	<2.5	<2.5	<2.5	730	240	23	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	140	58	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-19	6/25/2014	**12,000**	**620**	**160**	**460**	**1,770**	<20	**480**	<1.0	<1.0	<1.0	<1.0	360	110	9.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	120	40	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-20	6/25/2014	**3,900**	**400**	8.1	**24**	**79**	<20	**190**	<1.0	**2.7**	<1.0	<1.0	12	4.2	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	82	9.6	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	0.53	<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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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-22	6/25/2014	50	0.59	0.41J	1.1	1.76	<10	**0.55**	<0.50	<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	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	<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	1.0	<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
GAC	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	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
GAC	1/2/2015	<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
GAC*	1/22/2015	**990**	**89**	24	3.3	**110**	<10	**18**	0.84	**1.5**	<0.50	<0.50	1.4	40	1.0	<0.50	<1.0	2.4	<0.50	--	<1.0	0.63	2.1	<1.0	<1.0	<0.50	<1.0	<0.50
GAC	2/16/2015	<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
GAC	3/25/2015	<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
GAC	4/23/2015	<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
GAC	5/21/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAC	6/18/2015	<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
GAC	7/16/2015	<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
GAC	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	<0.50	<1.0	<0.50
GAC	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	<0.50	<1.0	<0.50
GAC	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
GAC	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

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)																										
GAC	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
GAC	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
GAC	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
GAC	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

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	12/4/2014	<2500	<25	<25	<25	<50	<500	<50	<25	<25	<25	<25	<25	<25	<50	<25	<50	<50	<25	--	<50	<25	<50	<50	<50	<25	<50	<25
EFF	1/2/2015	<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	1/22/2015	<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	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	<0.50	<1.0	<0.50
EFF	3/25/2015	<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	4/23/2015	<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	5/21/2015	<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	6/18/2015	<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	7/16/2015	<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	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	<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	<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
ESLs		100	1.0	40	13	20	NE	0.17	5.0	0.5	6.0	62	NE	NE	NE	80	80	2.3	NE	NE	0.14	NE	NE	NE	NE	10	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, Residental Land Use, Tier 1 Environmental Screening Levels

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).

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

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

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
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-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	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	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	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	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	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	-58	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	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)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
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	3	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-6R	6/25/2014	2.9	1.3	0.71	<0.20	<0.20	<0.10	12	2.9	<0.10	0.45	20.20	530.7	6.87	--	-114.1	*
MW-6R	12/4/2014	2.84	3.1	<1.0	150	3.4	0.21	26	2.5	0.34	0.24	21.77	909.0	7.24	--	-66.0	*
MW-6R	12/30/2014	<0.20	1.2	3.7	250	56	4.1	33	<0.10	<0.10	7.2	20.32	971.0	4.80	34.2	47.0	6.99
MW-6R	1/22/2015	<0.20	2.7	1	200	32	0.93	74	<0.10	<0.10	2.1	19.70	929.0	4.55	0.4	93.0	5.19
MW-6R	2/19/2015	<0.20	2.2	1.3	270	24	1.4	69	<0.10	<0.10	4.6	19.42	1050.0	6.72	0.15	80.0	2.16
MW-6R	6/11/2015	0.73	0.93	1.5	350	2.2	1.6	44	0.73	<0.10	1.8	21.56	975.0	7.03 [1]	2.05	121.0	2.98
MW-6R	8/11/2015	0.91	1.1	1.1	240	1.4	1.7	43	0.91	<0.10	0.69	23.96	678.0	5.89	22.1	101.0	1.04
MW-6R	11/10/2015	<0.50	1.4	<1.0	270	2.8	0.88	39	<0.10	<0.10	0.43	22.77	823.0	5.65	14.6	124.0	0.58
MW-6R	2/2/2016	<0.20	1.6	4.4	540	<1.0	1.80	36	<0.10	<0.10	6.9	18.16	1180.0	5.31	2.91	195.0	3.44

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)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
MW-7R	6/25/2014	35	3.4	2	<0.20	<0.20	<0.10	<2.0	35	<.010	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-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	-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	-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	-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	-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	-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	-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	-117.0	5.99

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)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
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	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	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	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	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	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	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	135.0	7.37
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	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	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	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	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	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	131.0	6.08

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)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
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	-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	162.0	10.15
MW-11R	2/20/2015	3.1	0.55	<1.0	<1.0	<1.0	0.11	2	2	1.1	<0.20	17.63	161.0	6.98	131	-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-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	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	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	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	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

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)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
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	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	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	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	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	159.0	5.55
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	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	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	0.0	--	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	26.0	2.4	<0.20	16.59	17.0	7.82	766	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)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
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	-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	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	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	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	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	142.0	8.84
MW-16	6/26/2014	<0.5	<0.5	<0.5	<0.20	<0.20	<0.10	3.1	<0.5	<0.10	<0.03	18.30	401.5	6.68	--	-70.7	*
MW-16	12/5/2014	2.64	0.3	<1.0	<1.0	<1.0	0.037	6.5	2.5	0.14	<0.20	19.01	330.0	7.30	--	9.0	*
MW-16	12/31/2014	2.15	0.29	<1.0	<1.0	<1.0	0.038	8.1	1.6	0.55	<0.20	16.51	272.0	5.06	309	58.0	8.25
MW-16	1/23/2015	5.49	0.27	<1.0	<1.0	<1.0	<0.020	9.5	5.3	0.19	<0.20	18.11	300.0	6.77	202	133.0	10.10
MW-16	2/20/2015	4.86	0.31	<1.0	<1.0	<1.0	<0.020	10	4.7	0.16	<0.20	17.77	337.0	6.82	88.9	102.0	3.66
MW-16	6/12/2015	3.44	0.29	<1.0	<1.0	<1.0	0.040	10	3.3	0.14	<0.20	19.37	312.0	6.84 [1]	90.6	130.0	2.95
MW-16	8/10/2015	2.5	0.21	<1.0	1.40	<1.0	0.040	9.7	2.5	<0.10	<0.20	19.72	287.0	5.98	68.8	149.0	5.02
MW-16	11/11/2015	0.74	0.22	<1.0	2.0	<1.0	0.039	8.0	0.74	<0.10	<0.20	18.10	276.0	6.77	142	91.0	6.11
MW-16	2/3/2016	4.9	0.33	<1.0	7.3	<1.0	0.028	6.9	4.9	<0.10	<0.20	17.86	312.0	6.79	81.5	159.0	8.67

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)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
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-15	6/25/2014	21	2.9	1.6	<0.20	<0.20	<0.10	<2.0	21	<0.10	<0.15	19.3	870.0	6.81	--	-96.1	*
EW-15	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-15	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
EW-16	6/26/2014	3.5	1.4	0.77	<.020	<0.20	15	19	3.5	<0.10	<0.15	20.1	916.0	6.80	--	-89.3	*
EW-16	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-16	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	6/25/2014	31	1.6	0.75	<0.20	<0.20	<0.10	3.4	31	<0.10	0.34	19.5	1,494.0	7.09	--	-119.0	*
EW-17	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-17	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
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-19	6/25/2014	43	3.3	7.1	<0.20	<0.20	0.17	<2.0	43	<0.10	0.5	20.5	926.0	6.66	--	-91.1	*
EW-19	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
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-21	6/26/2014	1.6	<0.5	6.1	6.1	<0.20	<0.10	15	1.60	<0.10	<0.03	20.0	422.2	6.90	--	10.0	*
EW-21	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	2/3/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

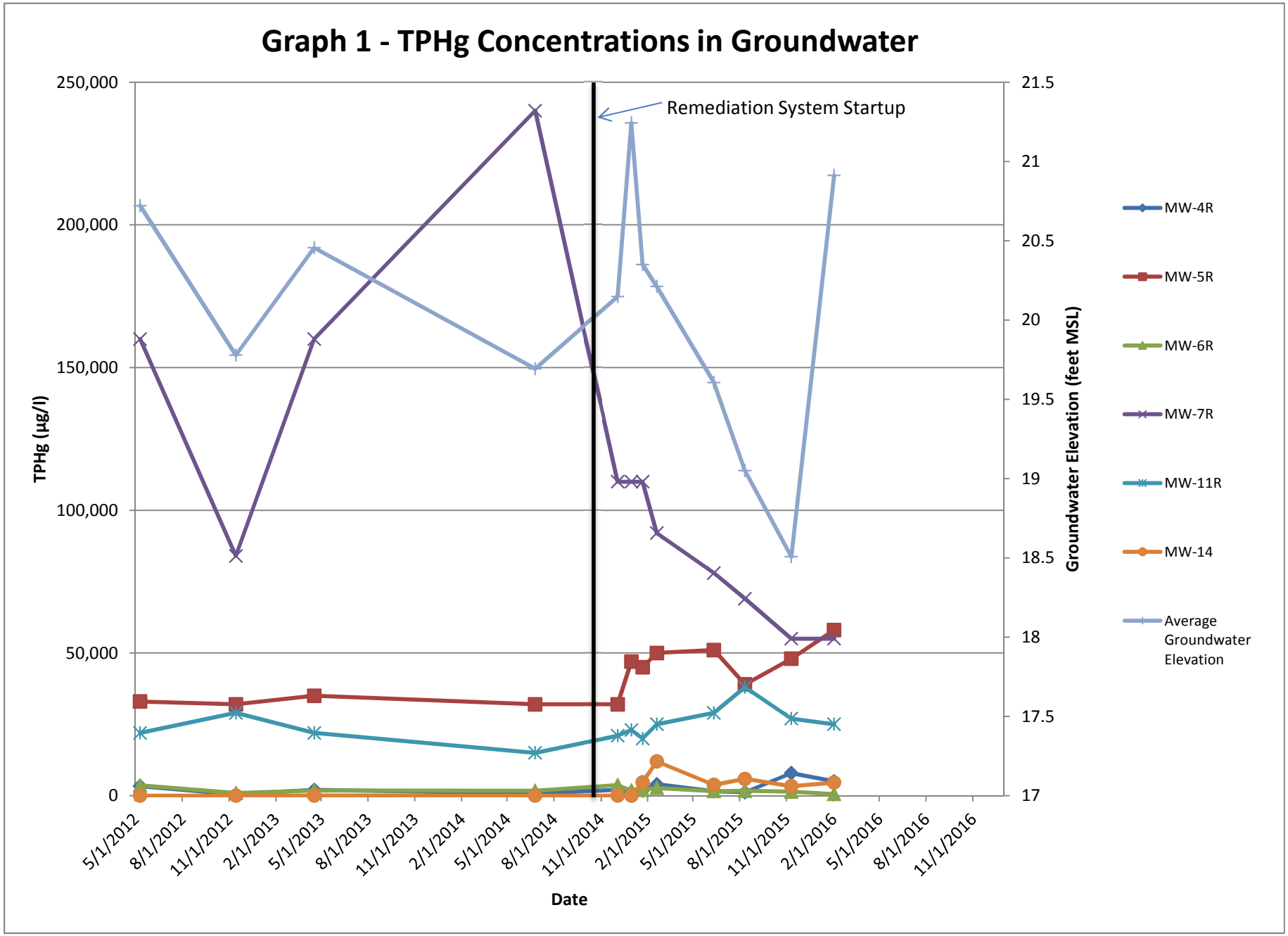
TABLE 5 – BIOATTENUATION MONITORING

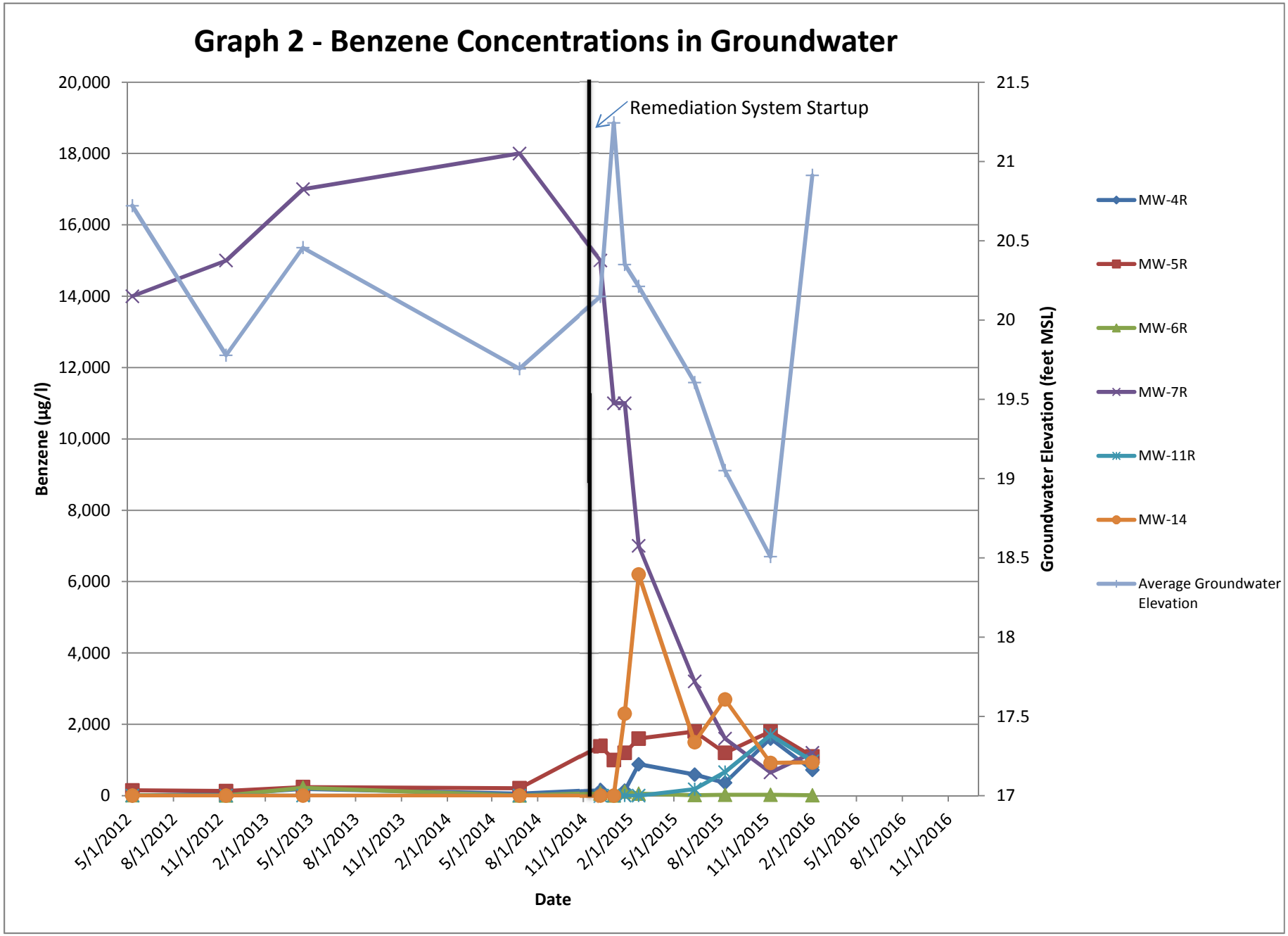
Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity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

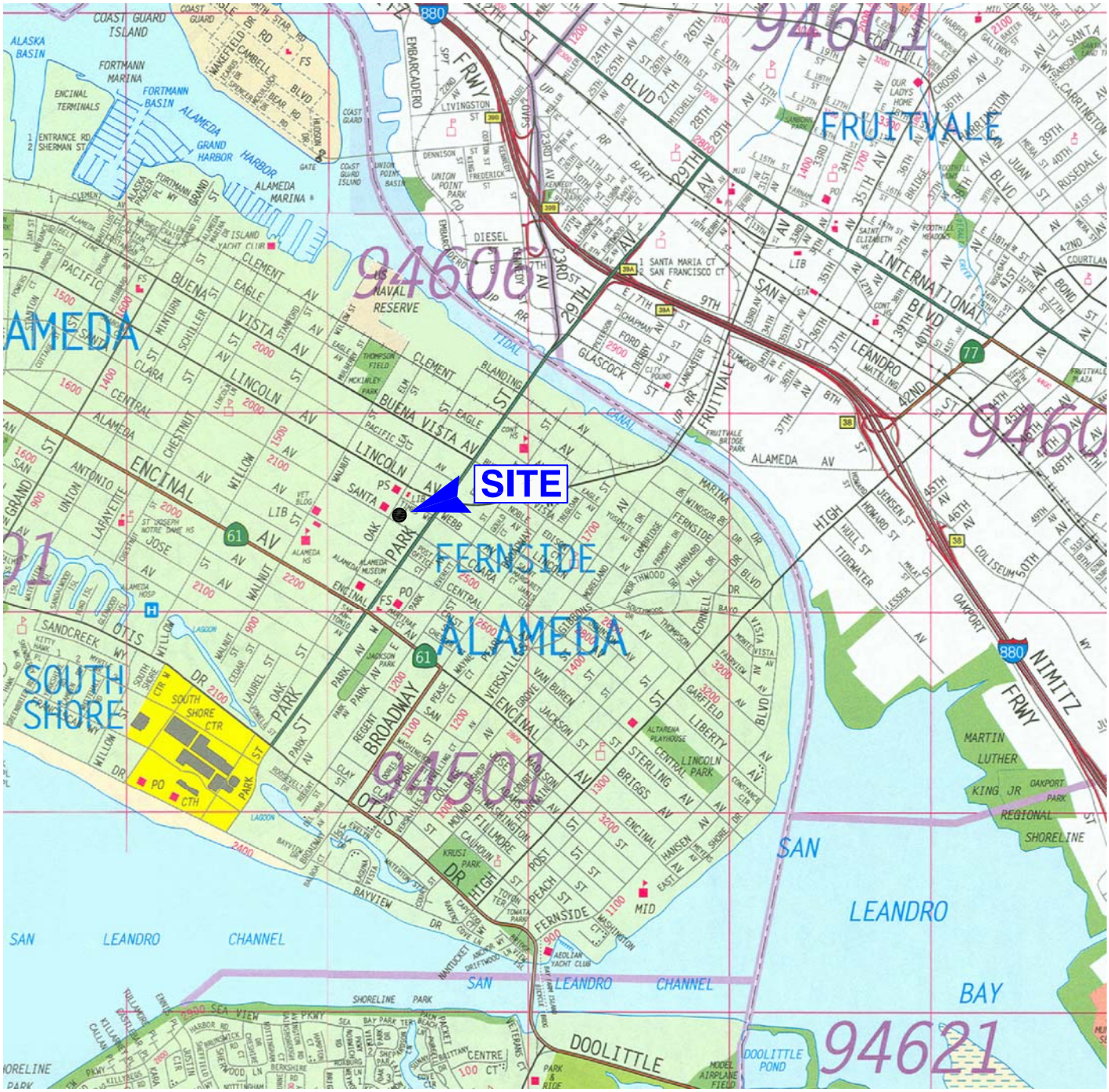
Notes:

ID − identification
EPA − United States Environmental Protection Agency
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 takenon 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


Graph 1 - TPHg Concentrations in Groundwater
250,000
200,000
150,000
100,000
50,000
0
TPHg (µg/l)
21.5
21
20.5
20
19.5
19
18.5
18
17.5
17
Groundwater Elevation (feet MSL)
Remediation System Startup
5/1/2012
8/1/2012
11/1/2012
2/1/2013
5/1/2013
8/1/2013
11/1/2013
2/1/2014
5/1/2014
8/1/2014
11/1/2014
2/1/2015
5/1/2015
8/1/2015
11/1/2015
2/1/2016
5/1/2016
8/1/2016
11/1/2016
Date
MW-4R
MW-5R
MW-6R
MW-7R
MW-11R
MW-14
Average Groundwater Elevation


Graph 2 - Benzene Concentrations in Groundwater
Remediation System Startup
Benzene (µg/l)
Groundwater Elevation (feet MSL)
Date
20,000
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
21.5
21
20.5
20
19.5
19
18.5
18
17.5
17
5/1/2012
8/1/2012
11/1/2012
2/1/2013
5/1/2013
8/1/2013
11/1/2013
2/1/2014
5/1/2014
8/1/2014
11/1/2014
2/1/2015
5/1/2015
8/1/2015
11/1/2015
2/1/2016
5/1/2016
8/1/2016
11/1/2016
MW-4R
MW-5R
MW-6R
MW-7R
MW-11R
MW-14
Average Groundwater Elevation



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

N

SCALE IN FEET

0 2000 4000

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore	SITE LOCATION	FIGURE
PROJECT NO. 401896004 / DATE 4/16	2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA	1

401896004-FIG1.dwg, Apr 22, 2016, 2:43pm, snguyen

REFERENCE: GOOGLE EARTH, 2012.

N

SCALE IN FEET

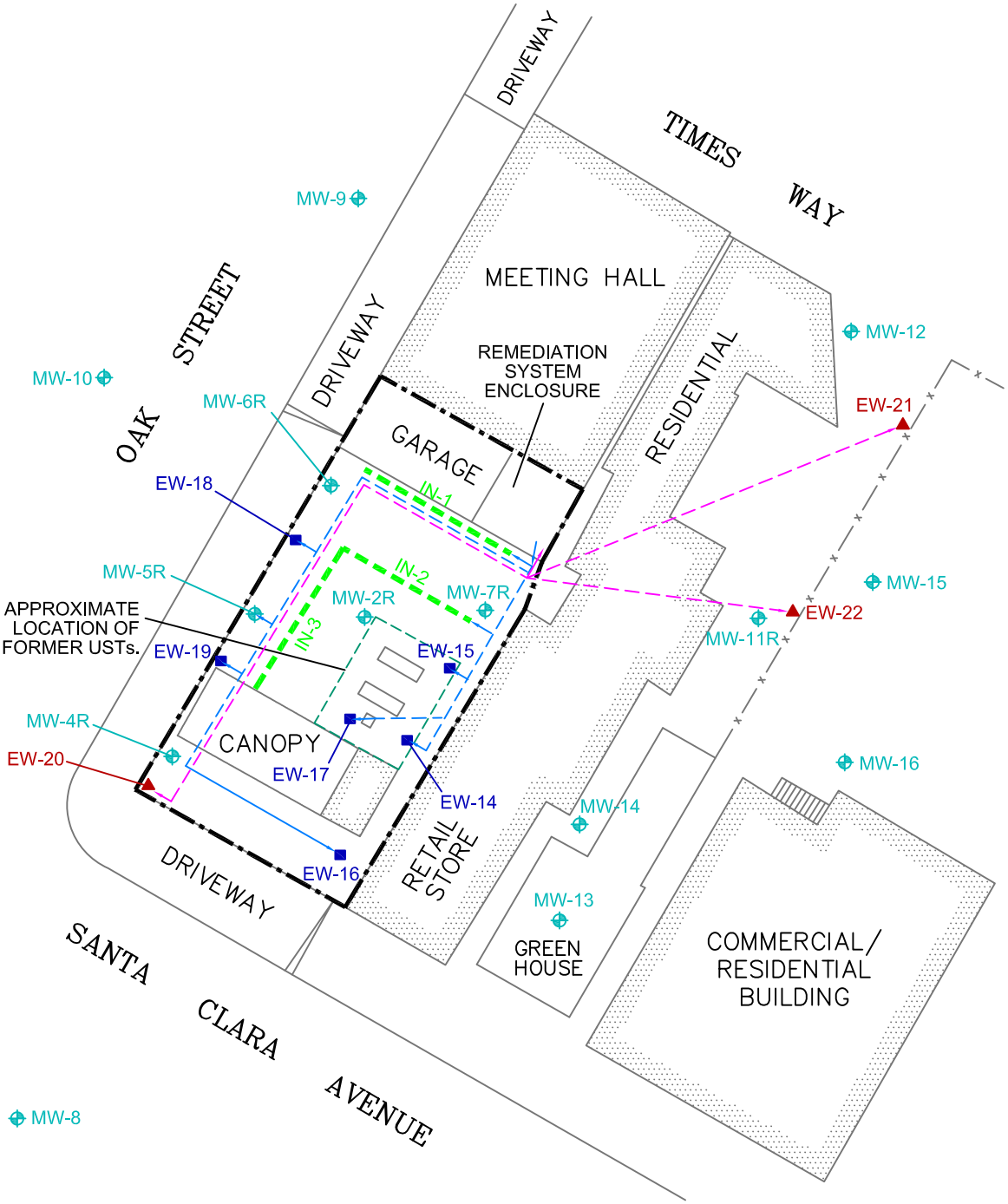
0 40 80

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND	
	APPROXIMATE SITE BOUNDARY

Ninyo & Moore	SITE VICINITY	FIGURE
PROJECT NO. 401896004 / DATE 4/16	2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA	2

401896004-FIG2.dwg, Apr 22, 2016, 2:43pm, snguyen



N

SCALE IN FEET

0 30 60

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

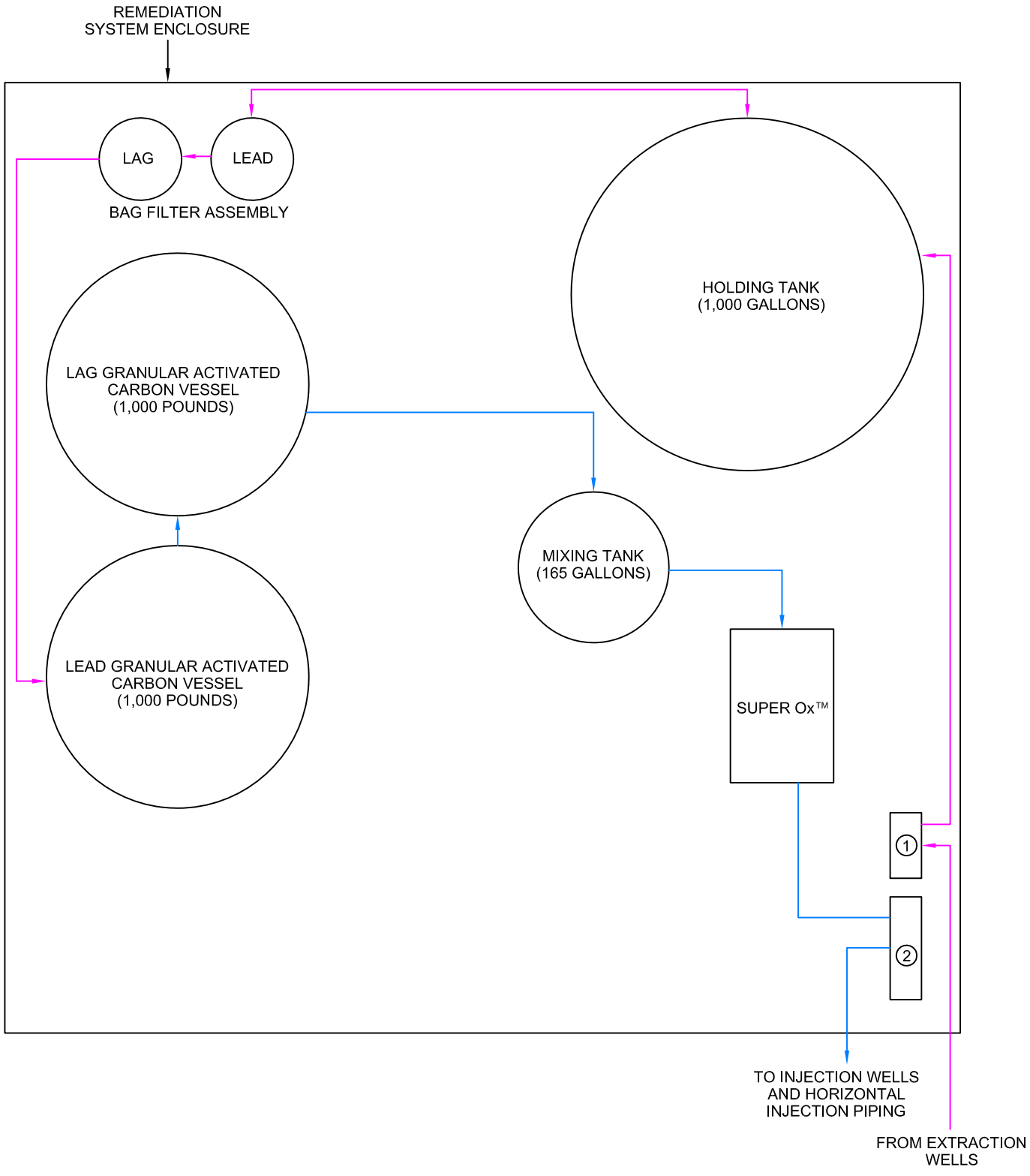
LEGEND

- 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.

Ninyo & Moore	SITE PLAN	FIGURE
PROJECT NO. 401896004 / DATE 4/16	2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA	3

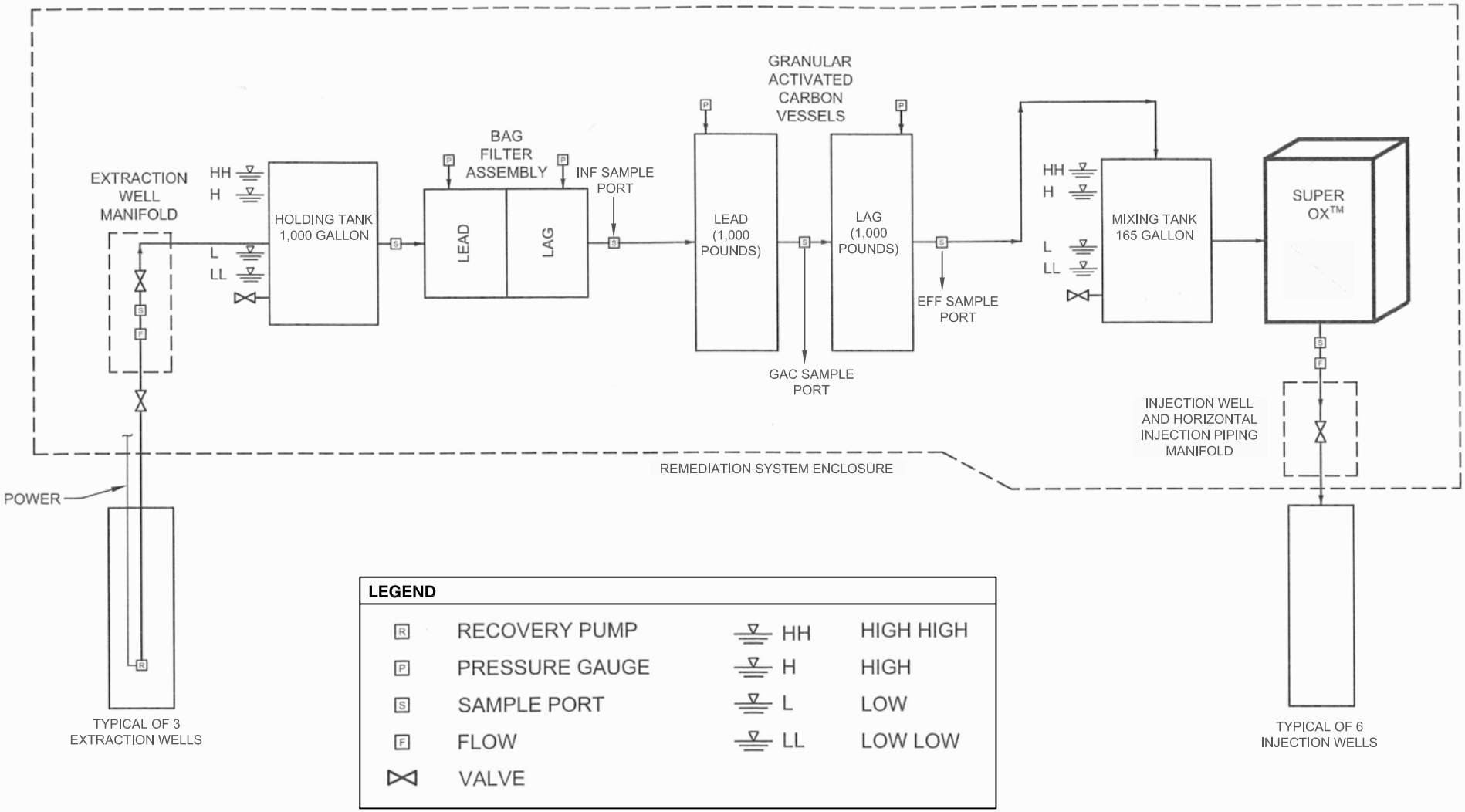
401896004-FIG3.dwg, Apr 22, 2016, 2:44pm, snguyen



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

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

Ninyo & Moore		REMEDIATION SYSTEM PLAN	FIGURE
PROJECT NO.	DATE	2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA	4
401896004	4/16		



LEGEND

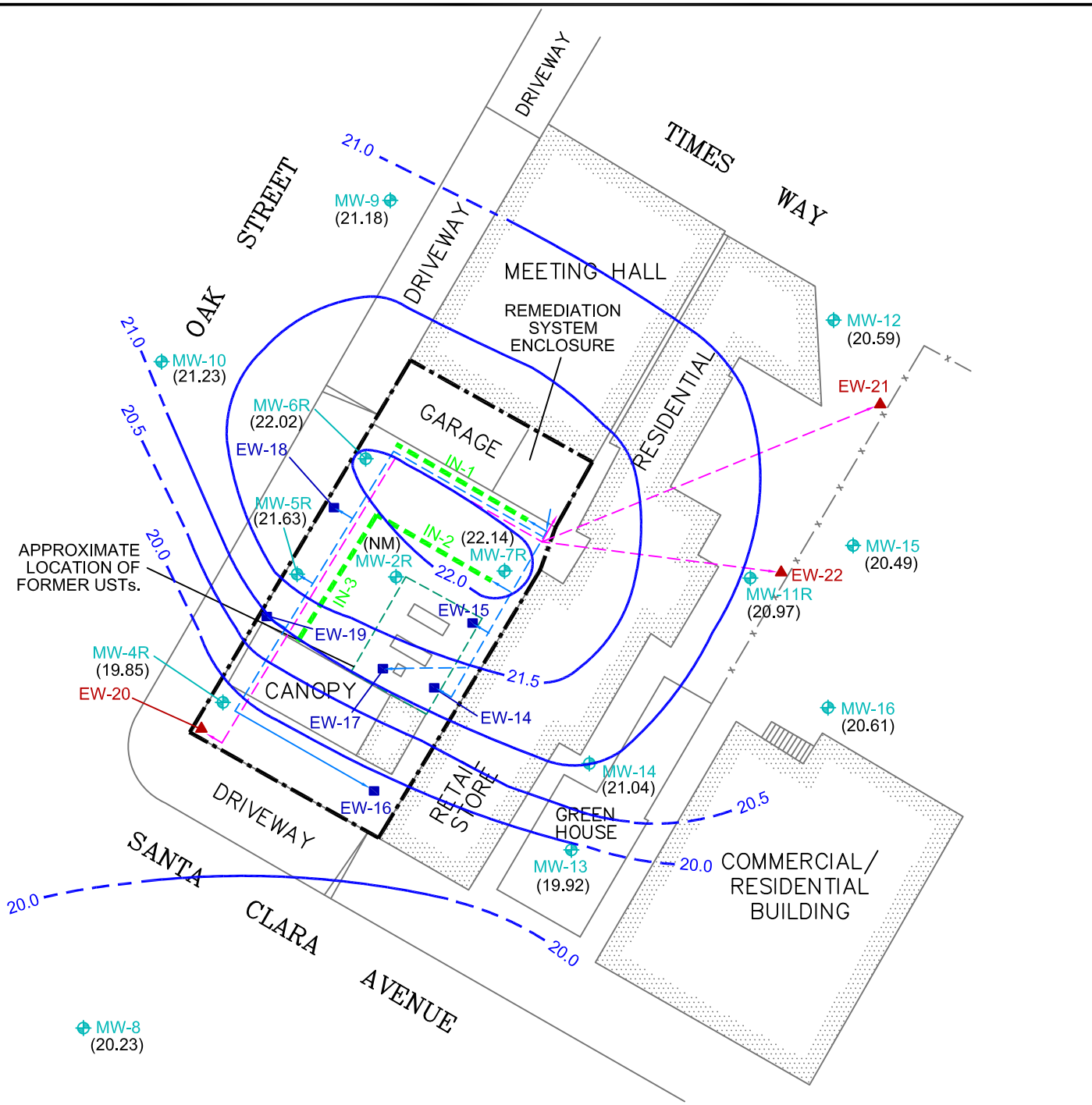
R	RECOVERY PUMP	HH	HIGH HIGH
P	PRESSURE GAUGE	H	HIGH
S	SAMPLE PORT	L	LOW
F	FLOW	LL	LOW LOW
	VALVE		

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

NOT TO SCALE

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore	REMEDIATION SYSTEM SCHEMATIC	FIGURE
PROJECT NO. / DATE	2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA	5
401896004 / 4/16		



LEGEND

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

N

SCALE IN FEET

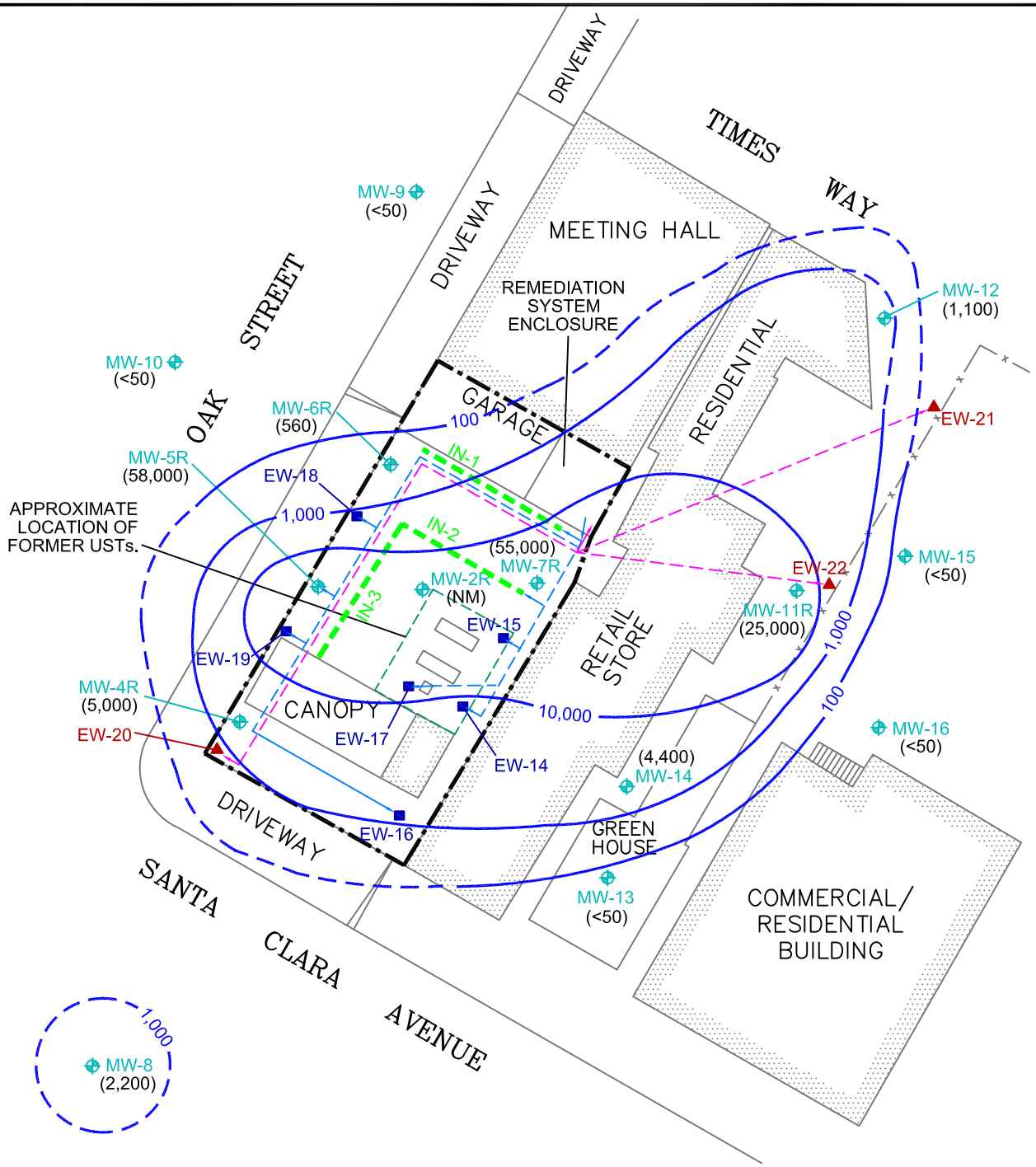
0 30 60

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.

Ninyo & Moore	GROUNDWATER ELEVATION CONTOUR 2/2/16 - 2/3/16	FIGURE
PROJECT NO. 401896004 / DATE 4/16	2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA	6

401896004-FIG6.dwg, Apr 22, 2016, 2:41pm, snguyen



N

SCALE IN FEET

0 30 60

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

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

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.

Ninyo & Moore

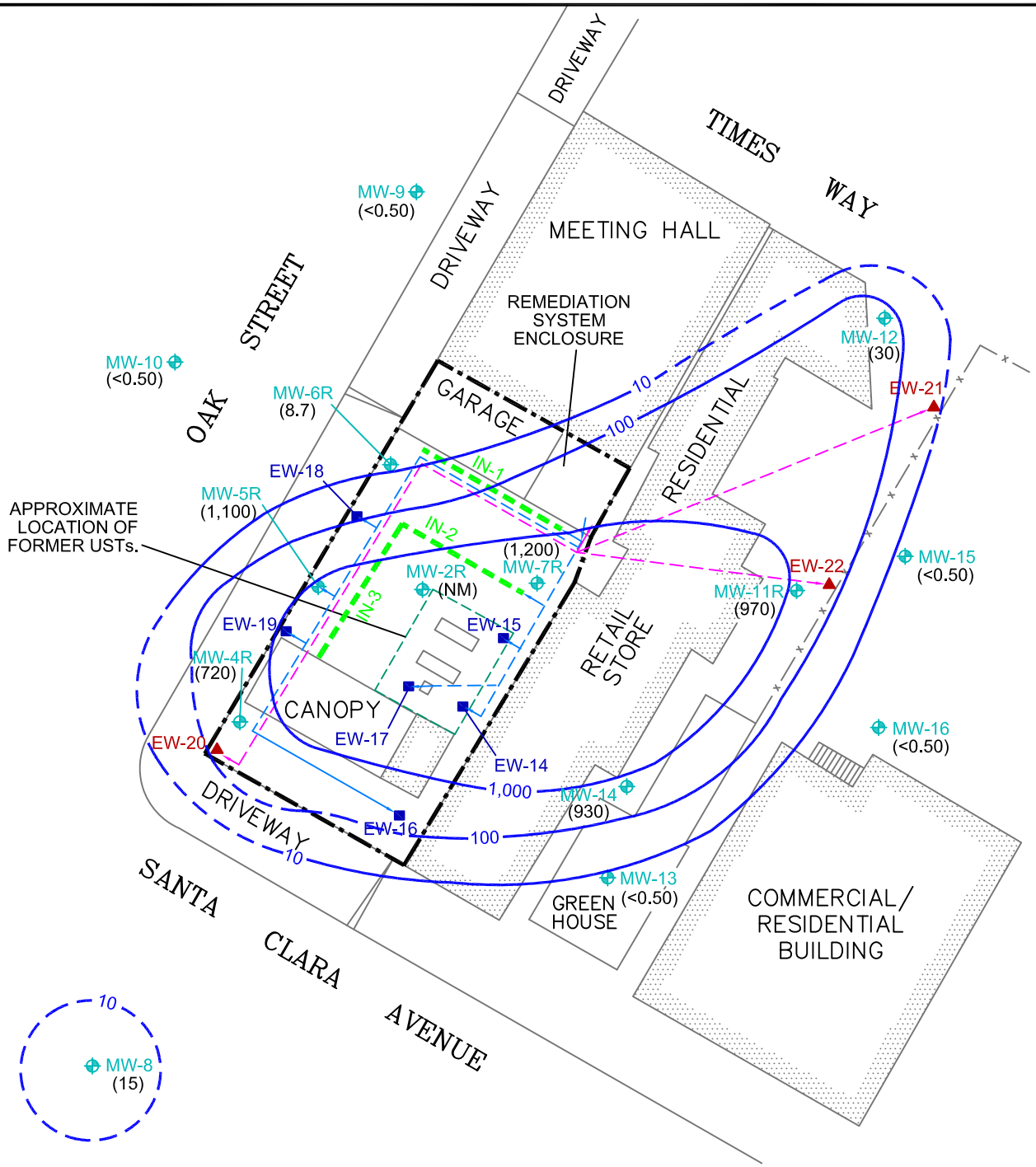
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE CONCENTRATIONS IN GROUNDWATER 2/2/16 - 2/3/16

FIGURE 7

PROJECT NO.	DATE
401896004	4/16

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

401896004-FIG7.dwg, Apr 22, 2016, 2:41pm, snguyen



N

SCALE IN FEET

0 30 60

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

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

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.

Ninyo & Moore

BENZENE CONCENTRATIONS IN GROUNDWATER
2/2/16 - 2/3/16

FIGURE
8

PROJECT NO.	DATE
401896004	4/16

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

401896004-FIG8.dwg, Apr 22, 2016, 2:42pm, snguyen

APPENDIX A

HISTORICAL CONSTITUENTS OF CONCERN CONCENTRATIONS

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-1
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	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			
3/13/2006	72,000	17,000	16,000	3,000	10,400	ND	ND	ND	ND	ND	ND	ND			
6/11/2006	65,000	21,000	16,000	2,900	9,900	ND	ND	ND	ND	ND	ND	ND			
9/5/2006	62,000	17,000	12,000	2,300	8,600	ND	ND	ND	ND	ND	ND	ND			
1/4/2007	46,000	6,500	4,200	980	4,890	ND	ND	ND	ND	ND	ND	ND			
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	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	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			
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	ND	ND	300
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	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	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			
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	180	ND	78
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			
3/13/2006	320	ND	ND	1.4	17	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			
9/5/2006	760	ND	ND	1.6	60	ND	ND	ND	ND	ND	ND	ND			
1/4/2007	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	13	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	3.7	ND	2.6
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	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	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			
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	600	330	1,600
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	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	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			
3/14/2006	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			
9/5/2006	1,100	4.4	10	50	190	ND	ND	ND	ND	ND	ND	ND			
1/4/2007	390	2.0	14	23	85	ND	ND	ND	ND	ND	ND	ND			
7/8/2007	720	2.8	3.2	33	42	ND	ND	ND	ND	ND	ND	ND	19	3.0	17
9/23/2007	1,200	2.8	7.3	56	142	ND	ND	ND	ND	ND	ND	ND	17	13	60
9/5/2008	730	2.0	4.0	16	116	ND	ND	ND	ND	ND	ND	ND	24	9.4	41
9/26/2009	170	0.7	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	6.4	ND	0.8
2/27/2010	230	1.3	1.0	5.8	18	ND	ND	ND	ND	ND	ND	ND	23	1.9	6.7
8/21/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	360	1.2	1.6	ND	9.4	ND	ND	ND	ND	ND	ND	ND	29	3.6	16

Notes:
µg/L = micrograms per liter
NA = not analyzed
ND = concentration not detected above laboratory reporting limits
Analytical data was taken from historical monitoring reports in Geotracker.
This well was replaced with well MW-6R in May 2012.

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

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-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			
3/14/2006	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			
9/6/2006	ND	1.4	0.7	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			
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/21/2007	ND	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/5/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/26/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
µg/L = micrograms per liter
NA = not analyzed
ND = concentration not detected above laboratory reporting limits
Analytical data was taken from historical monitoring reports in Geotracker.

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

Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/3/2002	ND	ND													
9/20/2003	ND	ND													
12/25/2003	ND	ND													
4/24/2004	ND	ND													
8/22/2005	ND	ND													
3/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
6/13/2006	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			
1/6/2007	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND			
7/7/2007	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			
3/14/2006	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			
9/7/2006	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			
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	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)														
10/24/2002	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			
3/14/2006	47,000	5,600	2,400	1,900	10,100	ND	ND	ND	ND	ND	ND	ND			
6/12/2006	44,000	5,900	2,200	3,600	15,700	ND	ND	ND	ND	ND	ND	ND			
9/6/2006	36,000	5,900	2,100	3,000	16,000	ND	ND	ND	ND	ND	ND	ND			
1/5/2007	50,000	2,200	450.0	2,100	13,300	ND	ND	ND	ND	ND	ND	ND			
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			
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	NA	NA	NA
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			
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	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	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			
7/7/2007	6,900	3,700	54	550	582	ND	ND	ND	ND	ND	ND	ND	97	48	73
9/22/2007	3,200	2,600	19	310	160	ND	ND	ND	ND	ND	ND	3.9	49	22	14
9/5/2008	690	280	ND	ND	19	ND	ND	ND	ND	ND	ND	ND	11	ND	3.2
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	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	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			
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	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)														
9/22/2003	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			
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	410	260	1,300
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	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)														
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													
9/6/2006	51,000	8,200	11,000	2,300	11,200	ND	ND	ND	ND	ND	ND	ND			
1/5/2007	30,000	9,700	1,900	1,400	4,400	ND	ND	ND	ND	ND	ND	ND			
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	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)														
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	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)														
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	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	1500	14	100	38	224	ND	ND	ND	ND	ND	ND	ND			
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	NA	NA	NA
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			
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:** 1/13/14

Field Tech: Emily Dirksen **Time:** 15:30

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	549690	--	--	
EX-22	225910	--	--	
EX-21	302010	--	--	
Injection				
~~IN-18~~	—	—	—	
IN-19 | 18	31570	44	~~0~~	
IN-16	75380	28	3.6	
Trenches 2+3	196170	19	4.8	
Trench 1 + IN 17	191400	22	~~[redacted]~~ 5.0	
IN 14 +15	148760	24	6.2	

Treatment System

Totalizer (digital): 646700 gal
DO-IT System Pressure: — psi (analog)
O2 Flow: — scfh

GAC Lead Pressure: 12 psi
GAC Polish Pressure: ~~0~~ psi
Bag Filter 1 Pressure: 60 psi
Bag Filter 2 Pressure: 24 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
5 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:** 1 / 28 / 14

Field Tech: CRD **Time:** 09 : 00

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	5646970	--	--	
EX-22	237340	--	--	
EX-21	3148 70	--	--	
Injection				
IN-18				
IN-19 18	32040	42	0.0	
IN-16	74730	32	2.0	
Trenches 2+3	205,270	22	6.4	
Trench 1 + IN 17	200160	24	6.0	
IN 14 +15	156,630	24	5.2	

Treatment System

Totalizer (digital): 69509 gal
DO-IT System Pressure: _____ psi (analog)
O2 Flow: _____ scfh

GAC Lead Pressure: 14 psi
GAC Polish Pressure: — psi
Bag Filter 1 Pressure : 41 psi
Bag Filter 2 Pressure : 29 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
100 lbs CBN nutrient mix
5 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: 2 / 11 / 14

Field Tech: GW

Time: 15 : 00

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	578140	--	--	
EX-22	245110	--	--	
EX-21	327180	--	--	
Injection				
~~IN-18~~	~~1473030~~	~~14~~	~~6.8~~	
IN-19	32380	40	0	
IN-16	77440	20	2.0	
Trenches 2+3	209910	20	2.0	
Trench 1 + IN 17	206520	18	2.0	
IN 14 +15	163030	14	6.8	O2 6.8 @ first, then to 22

Treatment System

Totalizer (digital): 714820 gal
DO-IT System Pressure: _____ psi (analog)
O2 Flow: _____ scfh

GAC Lead Pressure: 14 psi
GAC Polish Pressure: 0 psi
Bag Filter 1 Pressure : 24 psi
Bag Filter 2 Pressure : 20 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
5 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:** 2/25/16

Field Tech: GRD **Time:** 08:30

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	593780	--	--	
EX-22	254080	--	--	
EX-21	339520	--	--	
Injection				
~~IN-18~~	–	–	–	
IN-19 /18	32780	40	0	
IN-16	78460	21	3.0	
Trenches 2+3	21580	20	3.0	
Trench 1 + IN 17	214250	19	6.8	
IN 14 +15	171140	17	8.0	

Treatment System

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

GAC Lead Pressure: 16 psi
GAC Polish Pressure: 0 psi
Bag Filter 1 Pressure : 36 psi
Bag Filter 2 Pressure : 38 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
5 gal EZT-EA biosurfactant
– cups soda ash pH buffer

Quarterly Maintenance Checklist

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

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project
Former Bill Chun Facility, Alameda, CA

Visit Type: ☒ bi-weekly ☐ monthly ☐ quarterly ☐ unplanned **Date:** 3 / 10 / 16

Field Tech: Emily Dirksen **Time:** 09 : 00

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	59921	--	--	
EX-22	257020	--	--	
EX-21	343470	--	--	
Injection				
~~IN-18~~	-	-	-	
IN-19/18	32940	35	~~0~~	
IN-16	78850	20	2.0	- Trench 2/3 still slowly running
Trenches 2+3	217980	24	2.6	
Trench 1 + IN 17	214 520	20	2.8	
IN 14 +15	173580	20	2.8	

Treatment System

Totalizer (digital): 745710 gal
DO-IT System Pressure: - psi (analog)
O2 Flow: - scfh

GAC Lead Pressure: 17 psi
GAC Polish Pressure: ~~0~~ psi
Bag Filter 1 Pressure : 19 psi
Bag Filter 2 Pressure : 20 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
5 gal EZT-EA biosurfactant
- cups soda ash pH buffer

Quarterly Maintenance Checklist

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

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project
Former Bill Chun Facility, Alameda, CA

Visit Type: ☒ bi-weekly ☐ monthly ☐ quarterly ☐ unplanned

Date: 3 / 24 / 16

Field Tech: Emily Dirksen

Time: 15 : 00

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	618100	--	--	
EX-22	248550	--	--	
EX-21	361050	--	--	
Injection				
~~IN-18~~				
IN-19/18	33630	40	0	
IN-16	80280	24	3.8	
Trenches 2+3	226240	18	5.8	
Trench 1 + IN 17	225010	22	5.2	
IN 14 +15	181920	22	5.4	

Treatment System

Totalizer (digital): 773600 gal
DO-IT System Pressure: – psi (analog)
O2 Flow: _____ scfh

GAC Lead Pressure: 14 psi
GAC Polish Pressure: 0 psi
Bag Filter 1 Pressure : 38 psi
Bag Filter 2 Pressure : 32 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
5 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

APPENDIX C

LABORATORY ANALYTICAL REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

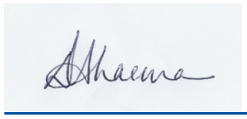
ANALYTICAL REPORT

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

TestAmerica Job ID: 720-70141-1
Client Project/Site: Chun

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

Attn: Mr. Peter D. Sims



Authorized for release by:
2/18/2016 4:20:50 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

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)

Job ID: 720-70141-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-70141-1

Comments
No additional comments.

Receipt
The samples were received on 2/2/2016 5:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

Receipt Exceptions

COC says page 1 of 2--only received page 1.

GC/MS VOA
Method 8260B: The following sample were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-7R (720-70141-4).

Method 8260B: The continuing calibration verification (CCV) associated with batch 720-196721 recovered above the upper control limit for Acetone. 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-4R (720-70141-1), MW-5R (720-70141-2), MW-6R (720-70141-3) and MW-7R (720-70141-4).

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: 720-70141-1

Client Sample ID: MW-4R — Lab Sample ID: 720-70141-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	720		10		ug/L	20		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	200		10		ug/L	20		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	32		10		ug/L	20		8260B/CA_LUFT MS	Total/NA
Naphthalene	160		20		ug/L	20		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	26		20		ug/L	20		8260B/CA_LUFT MS	Total/NA
Toluene	710		10		ug/L	20		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	210		10		ug/L	20		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	42		10		ug/L	20		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	1000		20		ug/L	20		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	5000		1000		ug/L	20		8260B/CA_LUFT MS	Total/NA
Sulfate	30		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	26		10		mg/L	10		300.0	Total/NA
Manganese	0.64		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	0.27		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.53	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Ammonia	4.3		0.40		mg/L	2		SM 4500 NH3 G	Total/NA
Orthophosphate as P	0.14		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-5R — Lab Sample ID: 720-70141-2

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	2700		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	92		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Naphthalene	640		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	230		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Toluene	9300		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	2300		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	510		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	18000		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	58000		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA
Nitrite as NO2	1.8		1.0		mg/L	1		300.0	Total/NA
Sulfate	48		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	12		1.0		mg/L	1		300.0	Total/NA
Manganese	0.86		0.020		mg/L	1		200.7 Rev 4.4	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-5R (Continued) — Lab Sample ID: 720-70141-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1.1		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	1.2		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.15	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Ammonia	0.44		0.20		mg/L	1		SM 4500 NH3 G	Total/NA
Orthophosphate as P	0.074		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-6R — Lab Sample ID: 720-70141-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	8.7		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	20		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Naphthalene	6.3		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Toluene	81		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	21		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	160		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	560		250		ug/L	5		8260B/CA_LUFT MS	Total/NA
Sulfate	36		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	540		100		mg/L	100		300.0	Total/NA
Manganese	1.6		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	4.4		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ammonia	6.9		0.40		mg/L	2		SM 4500 NH3 G	Total/NA
Orthophosphate as P	1.8		0.20		mg/L	10		SM 4500 P E	Total/NA

Client Sample ID: MW-7R — Lab Sample ID: 720-70141-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1200		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1700		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
Toluene	14000		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	1200		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	14000		500		ug/L	500		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	55000		25000		ug/L	500		8260B/CA_LUFT MS	Total/NA
Nitrite as NO2	13		1.0		mg/L	1		300.0	Total/NA
Sulfate	34		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	200		100		mg/L	100		300.0	Total/NA
Manganese	2.0		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	1.8		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	1.9		0.10		mg/L	1		SM 3500	Total/NA
Ammonia	1.2		0.20		mg/L	1		SM 4500 NH3 G	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

Client Sample ID: MW-8 — Lab Sample ID: 720-70141-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	15		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	1.7		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
sec-Butylbenzene	3.0		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	3.7		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	18		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	74		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	19		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	12		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	0.73		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	20		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2200		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Sulfate	8.3		1.0		mg/L	1		300.0	Total/NA
Manganese	1.6		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	3.5		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	28		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	11	HF	2.0		mg/L	20		SM 3500 Fe B	Total/NA
Ammonia	0.33		0.20		mg/L	1		SM 4500 NH3 G	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 720-70141-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	63		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	18		1.0		mg/L	1		300.0	Total/NA
Manganese	1.8		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	2.7		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	22		0.10		mg/L	1		SM 3500	Total/NA
Orthophosphate as P	0.038		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 720-70141-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	31		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	27		10		mg/L	10		300.0	Total/NA
Manganese	0.28		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	2.6		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	21		0.10		mg/L	1		SM 3500	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

Client Sample ID: MW-4R
Date Collected: 02/02/16 10:35
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-1
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		10		ug/L			02/03/16 02:00	20
Acetone	ND		1000		ug/L			02/03/16 02:00	20
Benzene	**720**		10		ug/L			02/03/16 02:00	20
Dichlorobromomethane	ND		10		ug/L			02/03/16 02:00	20
Bromobenzene	ND		20		ug/L			02/03/16 02:00	20
Chlorobromomethane	ND		20		ug/L			02/03/16 02:00	20
Bromoform	ND		20		ug/L			02/03/16 02:00	20
Bromomethane	ND		20		ug/L			02/03/16 02:00	20
2-Butanone (MEK)	ND		1000		ug/L			02/03/16 02:00	20
n-Butylbenzene	ND		20		ug/L			02/03/16 02:00	20
sec-Butylbenzene	ND		20		ug/L			02/03/16 02:00	20
tert-Butylbenzene	ND		20		ug/L			02/03/16 02:00	20
Carbon disulfide	ND		100		ug/L			02/03/16 02:00	20
Carbon tetrachloride	ND		10		ug/L			02/03/16 02:00	20
Chlorobenzene	ND		10		ug/L			02/03/16 02:00	20
Chloroethane	ND		20		ug/L			02/03/16 02:00	20
Chloroform	ND		20		ug/L			02/03/16 02:00	20
Chloromethane	ND		20		ug/L			02/03/16 02:00	20
2-Chlorotoluene	ND		10		ug/L			02/03/16 02:00	20
4-Chlorotoluene	ND		10		ug/L			02/03/16 02:00	20
Chlorodibromomethane	ND		10		ug/L			02/03/16 02:00	20
1,2-Dichlorobenzene	ND		10		ug/L			02/03/16 02:00	20
1,3-Dichlorobenzene	ND		10		ug/L			02/03/16 02:00	20
1,4-Dichlorobenzene	ND		10		ug/L			02/03/16 02:00	20
1,3-Dichloropropane	ND		20		ug/L			02/03/16 02:00	20
1,1-Dichloropropene	ND		10		ug/L			02/03/16 02:00	20
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			02/03/16 02:00	20
Ethylene Dibromide	ND		10		ug/L			02/03/16 02:00	20
Dibromomethane	ND		10		ug/L			02/03/16 02:00	20
Dichlorodifluoromethane	ND		10		ug/L			02/03/16 02:00	20
1,1-Dichloroethane	ND		10		ug/L			02/03/16 02:00	20
1,2-Dichloroethane	ND		10		ug/L			02/03/16 02:00	20
1,1-Dichloroethene	ND		10		ug/L			02/03/16 02:00	20
cis-1,2-Dichloroethene	ND		10		ug/L			02/03/16 02:00	20
trans-1,2-Dichloroethene	ND		10		ug/L			02/03/16 02:00	20
1,2-Dichloropropane	ND		10		ug/L			02/03/16 02:00	20
cis-1,3-Dichloropropene	ND		10		ug/L			02/03/16 02:00	20
trans-1,3-Dichloropropene	ND		10		ug/L			02/03/16 02:00	20
Ethylbenzene	**200**		10		ug/L			02/03/16 02:00	20
Hexachlorobutadiene	ND		20		ug/L			02/03/16 02:00	20
2-Hexanone	ND		1000		ug/L			02/03/16 02:00	20
Isopropylbenzene	**32**		10		ug/L			02/03/16 02:00	20
4-Isopropyltoluene	ND		20		ug/L			02/03/16 02:00	20
Methylene Chloride	ND		100		ug/L			02/03/16 02:00	20
4-Methyl-2-pentanone (MIBK)	ND		1000		ug/L			02/03/16 02:00	20
Naphthalene	**160**		20		ug/L			02/03/16 02:00	20
N-Propylbenzene	**26**		20		ug/L			02/03/16 02:00	20
Styrene	ND		10		ug/L			02/03/16 02:00	20
1,1,1,2-Tetrachloroethane	ND		10		ug/L			02/03/16 02:00	20

Client Sample ID: MW-4R
Date Collected: 02/02/16 10:35
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-1
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		10		ug/L			02/03/16 02:00	20
Tetrachloroethene	ND		10		ug/L			02/03/16 02:00	20
Toluene	**710**		10		ug/L			02/03/16 02:00	20
1,2,3-Trichlorobenzene	ND		20		ug/L			02/03/16 02:00	20
1,2,4-Trichlorobenzene	ND		20		ug/L			02/03/16 02:00	20
1,1,1-Trichloroethane	ND		10		ug/L			02/03/16 02:00	20
1,1,2-Trichloroethane	ND		10		ug/L			02/03/16 02:00	20
Trichloroethene	ND		10		ug/L			02/03/16 02:00	20
Trichlorofluoromethane	ND		20		ug/L			02/03/16 02:00	20
1,2,3-Trichloropropane	ND		10		ug/L			02/03/16 02:00	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10		ug/L			02/03/16 02:00	20
1,2,4-Trimethylbenzene	**210**		10		ug/L			02/03/16 02:00	20
1,3,5-Trimethylbenzene	**42**		10		ug/L			02/03/16 02:00	20
Vinyl acetate	ND		200		ug/L			02/03/16 02:00	20
Vinyl chloride	ND		10		ug/L			02/03/16 02:00	20
Xylenes, Total	**1000**		20		ug/L			02/03/16 02:00	20
2,2-Dichloropropane	ND		10		ug/L			02/03/16 02:00	20
Gasoline Range Organics (GRO) -C5-C12	**5000**		1000		ug/L			02/03/16 02:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*02/03/16 02:00*	*20*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*		*02/03/16 02:00*	*20*
Toluene-d8 (Surr)	*100*		*70 - 130*		*02/03/16 02:00*	*20*

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			02/02/16 21:38	1
Sulfate	**30**		10		mg/L			02/02/16 21:55	10
Nitrate as NO3	**26**		10		mg/L			02/02/16 21:55	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.64**		0.020		mg/L		02/04/16 17:58	02/16/16 15:50	1
Potassium	ND		1.0		mg/L		02/04/16 17:58	02/16/16 15:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**0.27**		0.10		mg/L			02/17/16 16:06	1
Ferrous Iron	**0.53**	**HF**	0.10		mg/L			02/02/16 18:41	1
Ammonia	**4.3**		0.40		mg/L		02/04/16 16:16	02/04/16 21:16	2
Orthophosphate as P	**0.14**		0.020		mg/L			02/03/16 16:46	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

Client Sample ID: MW-5R
Date Collected: 02/02/16 11:30
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-2
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		50		ug/L			02/03/16 02:29	100
Acetone	ND		5000		ug/L			02/03/16 02:29	100
Benzene	**1100**		50		ug/L			02/03/16 02:29	100
Dichlorobromomethane	ND		50		ug/L			02/03/16 02:29	100
Bromobenzene	ND		100		ug/L			02/03/16 02:29	100
Chlorobromomethane	ND		100		ug/L			02/03/16 02:29	100
Bromoform	ND		100		ug/L			02/03/16 02:29	100
Bromomethane	ND		100		ug/L			02/03/16 02:29	100
2-Butanone (MEK)	ND		5000		ug/L			02/03/16 02:29	100
n-Butylbenzene	ND		100		ug/L			02/03/16 02:29	100
sec-Butylbenzene	ND		100		ug/L			02/03/16 02:29	100
tert-Butylbenzene	ND		100		ug/L			02/03/16 02:29	100
Carbon disulfide	ND		500		ug/L			02/03/16 02:29	100
Carbon tetrachloride	ND		50		ug/L			02/03/16 02:29	100
Chlorobenzene	ND		50		ug/L			02/03/16 02:29	100
Chloroethane	ND		100		ug/L			02/03/16 02:29	100
Chloroform	ND		100		ug/L			02/03/16 02:29	100
Chloromethane	ND		100		ug/L			02/03/16 02:29	100
2-Chlorotoluene	ND		50		ug/L			02/03/16 02:29	100
4-Chlorotoluene	ND		50		ug/L			02/03/16 02:29	100
Chlorodibromomethane	ND		50		ug/L			02/03/16 02:29	100
1,2-Dichlorobenzene	ND		50		ug/L			02/03/16 02:29	100
1,3-Dichlorobenzene	ND		50		ug/L			02/03/16 02:29	100
1,4-Dichlorobenzene	ND		50		ug/L			02/03/16 02:29	100
1,3-Dichloropropane	ND		100		ug/L			02/03/16 02:29	100
1,1-Dichloropropene	ND		50		ug/L			02/03/16 02:29	100
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			02/03/16 02:29	100
Ethylene Dibromide	ND		50		ug/L			02/03/16 02:29	100
Dibromomethane	ND		50		ug/L			02/03/16 02:29	100
Dichlorodifluoromethane	ND		50		ug/L			02/03/16 02:29	100
1,1-Dichloroethane	ND		50		ug/L			02/03/16 02:29	100
1,2-Dichloroethane	ND		50		ug/L			02/03/16 02:29	100
1,1-Dichloroethene	ND		50		ug/L			02/03/16 02:29	100
cis-1,2-Dichloroethene	ND		50		ug/L			02/03/16 02:29	100
trans-1,2-Dichloroethene	ND		50		ug/L			02/03/16 02:29	100
1,2-Dichloropropane	ND		50		ug/L			02/03/16 02:29	100
cis-1,3-Dichloropropene	ND		50		ug/L			02/03/16 02:29	100
trans-1,3-Dichloropropene	ND		50		ug/L			02/03/16 02:29	100
Ethylbenzene	**2700**		50		ug/L			02/03/16 02:29	100
Hexachlorobutadiene	ND		100		ug/L			02/03/16 02:29	100
2-Hexanone	ND		5000		ug/L			02/03/16 02:29	100
Isopropylbenzene	**92**		50		ug/L			02/03/16 02:29	100
4-Isopropyltoluene	ND		100		ug/L			02/03/16 02:29	100
Methylene Chloride	ND		500		ug/L			02/03/16 02:29	100
4-Methyl-2-pentanone (MIBK)	ND		5000		ug/L			02/03/16 02:29	100
Naphthalene	**640**		100		ug/L			02/03/16 02:29	100
N-Propylbenzene	**230**		100		ug/L			02/03/16 02:29	100
Styrene	ND		50		ug/L			02/03/16 02:29	100
1,1,1,2-Tetrachloroethane	ND		50		ug/L			02/03/16 02:29	100

Client Sample ID: MW-5R
Date Collected: 02/02/16 11:30
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-2
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		50		ug/L			02/03/16 02:29	100
Tetrachloroethene	ND		50		ug/L			02/03/16 02:29	100
Toluene	**9300**		50		ug/L			02/03/16 02:29	100
1,2,3-Trichlorobenzene	ND		100		ug/L			02/03/16 02:29	100
1,2,4-Trichlorobenzene	ND		100		ug/L			02/03/16 02:29	100
1,1,1-Trichloroethane	ND		50		ug/L			02/03/16 02:29	100
1,1,2-Trichloroethane	ND		50		ug/L			02/03/16 02:29	100
Trichloroethene	ND		50		ug/L			02/03/16 02:29	100
Trichlorofluoromethane	ND		100		ug/L			02/03/16 02:29	100
1,2,3-Trichloropropane	ND		50		ug/L			02/03/16 02:29	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50		ug/L			02/03/16 02:29	100
1,2,4-Trimethylbenzene	**2300**		50		ug/L			02/03/16 02:29	100
1,3,5-Trimethylbenzene	**510**		50		ug/L			02/03/16 02:29	100
Vinyl acetate	ND		1000		ug/L			02/03/16 02:29	100
Vinyl chloride	ND		50		ug/L			02/03/16 02:29	100
Xylenes, Total	**18000**		100		ug/L			02/03/16 02:29	100
2,2-Dichloropropane	ND		50		ug/L			02/03/16 02:29	100
Gasoline Range Organics (GRO) -C5-C12	**58000**		5000		ug/L			02/03/16 02:29	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*		*02/03/16 02:29*	*100*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 130*		*02/03/16 02:29*	*100*
Toluene-d8 (Surr)	*101*		*70 - 130*		*02/03/16 02:29*	*100*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	**1.8**		1.0		mg/L			02/02/16 22:12	1
Sulfate	**48**		10		mg/L			02/02/16 22:30	10
Nitrate as NO3	**12**		1.0		mg/L			02/02/16 22:12	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.86**		0.020		mg/L		02/04/16 17:58	02/16/16 15:55	1
Potassium	**1.1**		1.0		mg/L		02/04/16 17:58	02/16/16 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**1.2**		0.10		mg/L			02/17/16 16:06	1
Ferrous Iron	**0.15**	**HF**	0.10		mg/L			02/02/16 18:41	1
Ammonia	**0.44**		0.20		mg/L		02/04/16 16:16	02/04/16 21:18	1
Orthophosphate as P	**0.074**		0.020		mg/L			02/03/16 16:46	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

Client Sample ID: MW-6R
Date Collected: 02/02/16 12:20
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-3
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			02/03/16 02:59	5
Acetone	ND		250		ug/L			02/03/16 02:59	5
Benzene	**8.7**		2.5		ug/L			02/03/16 02:59	5
Dichlorobromomethane	ND		2.5		ug/L			02/03/16 02:59	5
Bromobenzene	ND		5.0		ug/L			02/03/16 02:59	5
Chlorobromomethane	ND		5.0		ug/L			02/03/16 02:59	5
Bromoform	ND		5.0		ug/L			02/03/16 02:59	5
Bromomethane	ND		5.0		ug/L			02/03/16 02:59	5
2-Butanone (MEK)	ND		250		ug/L			02/03/16 02:59	5
n-Butylbenzene	ND		5.0		ug/L			02/03/16 02:59	5
sec-Butylbenzene	ND		5.0		ug/L			02/03/16 02:59	5
tert-Butylbenzene	ND		5.0		ug/L			02/03/16 02:59	5
Carbon disulfide	ND		25		ug/L			02/03/16 02:59	5
Carbon tetrachloride	ND		2.5		ug/L			02/03/16 02:59	5
Chlorobenzene	ND		2.5		ug/L			02/03/16 02:59	5
Chloroethane	ND		5.0		ug/L			02/03/16 02:59	5
Chloroform	ND		5.0		ug/L			02/03/16 02:59	5
Chloromethane	ND		5.0		ug/L			02/03/16 02:59	5
2-Chlorotoluene	ND		2.5		ug/L			02/03/16 02:59	5
4-Chlorotoluene	ND		2.5		ug/L			02/03/16 02:59	5
Chlorodibromomethane	ND		2.5		ug/L			02/03/16 02:59	5
1,2-Dichlorobenzene	ND		2.5		ug/L			02/03/16 02:59	5
1,3-Dichlorobenzene	ND		2.5		ug/L			02/03/16 02:59	5
1,4-Dichlorobenzene	ND		2.5		ug/L			02/03/16 02:59	5
1,3-Dichloropropane	ND		5.0		ug/L			02/03/16 02:59	5
1,1-Dichloropropene	ND		2.5		ug/L			02/03/16 02:59	5
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			02/03/16 02:59	5
Ethylene Dibromide	ND		2.5		ug/L			02/03/16 02:59	5
Dibromomethane	ND		2.5		ug/L			02/03/16 02:59	5
Dichlorodifluoromethane	ND		2.5		ug/L			02/03/16 02:59	5
1,1-Dichloroethane	ND		2.5		ug/L			02/03/16 02:59	5
1,2-Dichloroethane	ND		2.5		ug/L			02/03/16 02:59	5
1,1-Dichloroethene	ND		2.5		ug/L			02/03/16 02:59	5
cis-1,2-Dichloroethene	ND		2.5		ug/L			02/03/16 02:59	5
trans-1,2-Dichloroethene	ND		2.5		ug/L			02/03/16 02:59	5
1,2-Dichloropropane	ND		2.5		ug/L			02/03/16 02:59	5
cis-1,3-Dichloropropene	ND		2.5		ug/L			02/03/16 02:59	5
trans-1,3-Dichloropropene	ND		2.5		ug/L			02/03/16 02:59	5
Ethylbenzene	**20**		2.5		ug/L			02/03/16 02:59	5
Hexachlorobutadiene	ND		5.0		ug/L			02/03/16 02:59	5
2-Hexanone	ND		250		ug/L			02/03/16 02:59	5
Isopropylbenzene	ND		2.5		ug/L			02/03/16 02:59	5
4-Isopropyltoluene	ND		5.0		ug/L			02/03/16 02:59	5
Methylene Chloride	ND		25		ug/L			02/03/16 02:59	5
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			02/03/16 02:59	5
Naphthalene	**6.3**		5.0		ug/L			02/03/16 02:59	5
N-Propylbenzene	ND		5.0		ug/L			02/03/16 02:59	5
Styrene	ND		2.5		ug/L			02/03/16 02:59	5
1,1,1,2-Tetrachloroethane	ND		2.5		ug/L			02/03/16 02:59	5

Client Sample ID: MW-6R
Date Collected: 02/02/16 12:20
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-3
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			02/03/16 02:59	5
Tetrachloroethene	ND		2.5		ug/L			02/03/16 02:59	5
Toluene	**81**		2.5		ug/L			02/03/16 02:59	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			02/03/16 02:59	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			02/03/16 02:59	5
1,1,1-Trichloroethane	ND		2.5		ug/L			02/03/16 02:59	5
1,1,2-Trichloroethane	ND		2.5		ug/L			02/03/16 02:59	5
Trichloroethene	ND		2.5		ug/L			02/03/16 02:59	5
Trichlorofluoromethane	ND		5.0		ug/L			02/03/16 02:59	5
1,2,3-Trichloropropane	ND		2.5		ug/L			02/03/16 02:59	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5		ug/L			02/03/16 02:59	5
1,2,4-Trimethylbenzene	**21**		2.5		ug/L			02/03/16 02:59	5
1,3,5-Trimethylbenzene	ND		2.5		ug/L			02/03/16 02:59	5
Vinyl acetate	ND		50		ug/L			02/03/16 02:59	5
Vinyl chloride	ND		2.5		ug/L			02/03/16 02:59	5
Xylenes, Total	**160**		5.0		ug/L			02/03/16 02:59	5
2,2-Dichloropropane	ND		2.5		ug/L			02/03/16 02:59	5
Gasoline Range Organics (GRO) -C5-C12	**560**		250		ug/L			02/03/16 02:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*67 - 130*		*02/03/16 02:59*	*5*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*		*02/03/16 02:59*	*5*
Toluene-d8 (Surr)	*99*		*70 - 130*		*02/03/16 02:59*	*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			02/02/16 22:47	1
Sulfate	**36**		10		mg/L			02/02/16 23:04	10
Nitrate as NO3	**540**		100		mg/L			02/03/16 14:50	100

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.6**		0.020		mg/L		02/04/16 17:58	02/16/16 16:11	1
Potassium	**4.4**		1.0		mg/L		02/04/16 17:58	02/16/16 16:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			02/17/16 16:06	1
Ferrous Iron	ND	HF	0.10		mg/L			02/02/16 18:41	1
Ammonia	**6.9**		0.40		mg/L		02/04/16 16:16	02/04/16 21:21	2
Orthophosphate as P	**1.8**		0.20		mg/L			02/03/16 16:46	10

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

Client Sample ID: MW-7R
Date Collected: 02/02/16 12:55
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-4
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		250		ug/L			02/03/16 03:28	500
Acetone	ND		25000		ug/L			02/03/16 03:28	500
Benzene	**1200**		250		ug/L			02/03/16 03:28	500
Dichlorobromomethane	ND		250		ug/L			02/03/16 03:28	500
Bromobenzene	ND		500		ug/L			02/03/16 03:28	500
Chlorobromomethane	ND		500		ug/L			02/03/16 03:28	500
Bromoform	ND		500		ug/L			02/03/16 03:28	500
Bromomethane	ND		500		ug/L			02/03/16 03:28	500
2-Butanone (MEK)	ND		25000		ug/L			02/03/16 03:28	500
n-Butylbenzene	ND		500		ug/L			02/03/16 03:28	500
sec-Butylbenzene	ND		500		ug/L			02/03/16 03:28	500
tert-Butylbenzene	ND		500		ug/L			02/03/16 03:28	500
Carbon disulfide	ND		2500		ug/L			02/03/16 03:28	500
Carbon tetrachloride	ND		250		ug/L			02/03/16 03:28	500
Chlorobenzene	ND		250		ug/L			02/03/16 03:28	500
Chloroethane	ND		500		ug/L			02/03/16 03:28	500
Chloroform	ND		500		ug/L			02/03/16 03:28	500
Chloromethane	ND		500		ug/L			02/03/16 03:28	500
2-Chlorotoluene	ND		250		ug/L			02/03/16 03:28	500
4-Chlorotoluene	ND		250		ug/L			02/03/16 03:28	500
Chlorodibromomethane	ND		250		ug/L			02/03/16 03:28	500
1,2-Dichlorobenzene	ND		250		ug/L			02/03/16 03:28	500
1,3-Dichlorobenzene	ND		250		ug/L			02/03/16 03:28	500
1,4-Dichlorobenzene	ND		250		ug/L			02/03/16 03:28	500
1,3-Dichloropropane	ND		500		ug/L			02/03/16 03:28	500
1,1-Dichloropropene	ND		250		ug/L			02/03/16 03:28	500
1,2-Dibromo-3-Chloropropane	ND		500		ug/L			02/03/16 03:28	500
Ethylene Dibromide	ND		250		ug/L			02/03/16 03:28	500
Dibromomethane	ND		250		ug/L			02/03/16 03:28	500
Dichlorodifluoromethane	ND		250		ug/L			02/03/16 03:28	500
1,1-Dichloroethane	ND		250		ug/L			02/03/16 03:28	500
1,2-Dichloroethane	ND		250		ug/L			02/03/16 03:28	500
1,1-Dichloroethene	ND		250		ug/L			02/03/16 03:28	500
cis-1,2-Dichloroethene	ND		250		ug/L			02/03/16 03:28	500
trans-1,2-Dichloroethene	ND		250		ug/L			02/03/16 03:28	500
1,2-Dichloropropane	ND		250		ug/L			02/03/16 03:28	500
cis-1,3-Dichloropropene	ND		250		ug/L			02/03/16 03:28	500
trans-1,3-Dichloropropene	ND		250		ug/L			02/03/16 03:28	500
Ethylbenzene	**1700**		250		ug/L			02/03/16 03:28	500
Hexachlorobutadiene	ND		500		ug/L			02/03/16 03:28	500
2-Hexanone	ND		25000		ug/L			02/03/16 03:28	500
Isopropylbenzene	ND		250		ug/L			02/03/16 03:28	500
4-Isopropyltoluene	ND		500		ug/L			02/03/16 03:28	500
Methylene Chloride	ND		2500		ug/L			02/03/16 03:28	500
4-Methyl-2-pentanone (MIBK)	ND		25000		ug/L			02/03/16 03:28	500
Naphthalene	ND		500		ug/L			02/03/16 03:28	500
N-Propylbenzene	ND		500		ug/L			02/03/16 03:28	500
Styrene	ND		250		ug/L			02/03/16 03:28	500
1,1,1,2-Tetrachloroethane	ND		250		ug/L			02/03/16 03:28	500

Client Sample ID: MW-7R
Date Collected: 02/02/16 12:55
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-4
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		250		ug/L			02/03/16 03:28	500
Tetrachloroethene	ND		250		ug/L			02/03/16 03:28	500
Toluene	**14000**		250		ug/L			02/03/16 03:28	500
1,2,3-Trichlorobenzene	ND		500		ug/L			02/03/16 03:28	500
1,2,4-Trichlorobenzene	ND		500		ug/L			02/03/16 03:28	500
1,1,1-Trichloroethane	ND		250		ug/L			02/03/16 03:28	500
1,1,2-Trichloroethane	ND		250		ug/L			02/03/16 03:28	500
Trichloroethene	ND		250		ug/L			02/03/16 03:28	500
Trichlorofluoromethane	ND		500		ug/L			02/03/16 03:28	500
1,2,3-Trichloropropane	ND		250		ug/L			02/03/16 03:28	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250		ug/L			02/03/16 03:28	500
1,2,4-Trimethylbenzene	**1200**		250		ug/L			02/03/16 03:28	500
1,3,5-Trimethylbenzene	ND		250		ug/L			02/03/16 03:28	500
Vinyl acetate	ND		5000		ug/L			02/03/16 03:28	500
Vinyl chloride	ND		250		ug/L			02/03/16 03:28	500
Xylenes, Total	**14000**		500		ug/L			02/03/16 03:28	500
2,2-Dichloropropane	ND		250		ug/L			02/03/16 03:28	500
Gasoline Range Organics (GRO) -C5-C12	**55000**		25000		ug/L			02/03/16 03:28	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*02/03/16 03:28*	*500*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*		*02/03/16 03:28*	*500*
Toluene-d8 (Surr)	*99*		*70 - 130*		*02/03/16 03:28*	*500*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	**13**		1.0		mg/L			02/02/16 23:55	1
Sulfate	**34**		10		mg/L			02/03/16 00:12	10
Nitrate as NO3	**200**		100		mg/L			02/03/16 15:07	100

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.0**		0.020		mg/L		02/04/16 17:58	02/16/16 16:16	1
Potassium	**1.8**		1.0		mg/L		02/04/16 17:58	02/16/16 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**1.9**		0.10		mg/L			02/17/16 16:06	1
Ferrous Iron	ND	HF	0.10		mg/L			02/02/16 18:41	1
Ammonia	**1.2**		0.20		mg/L		02/04/16 16:16	02/04/16 21:24	1
Orthophosphate as P	ND		0.020		mg/L			02/03/16 16:46	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

Client Sample ID: MW-8
Date Collected: 02/02/16 15:25
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-5
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			02/04/16 18:18	1
Acetone	ND		50		ug/L			02/04/16 18:18	1
Benzene	**15**		0.50		ug/L			02/04/16 18:18	1
Dichlorobromomethane	ND		0.50		ug/L			02/04/16 18:18	1
Bromobenzene	ND		1.0		ug/L			02/04/16 18:18	1
Chlorobromomethane	ND		1.0		ug/L			02/04/16 18:18	1
Bromoform	ND		1.0		ug/L			02/04/16 18:18	1
Bromomethane	ND		1.0		ug/L			02/04/16 18:18	1
2-Butanone (MEK)	ND		50		ug/L			02/04/16 18:18	1
n-Butylbenzene	**1.7**		1.0		ug/L			02/04/16 18:18	1
sec-Butylbenzene	**3.0**		1.0		ug/L			02/04/16 18:18	1
tert-Butylbenzene	ND		1.0		ug/L			02/04/16 18:18	1
Carbon disulfide	ND		5.0		ug/L			02/04/16 18:18	1
Carbon tetrachloride	ND		0.50		ug/L			02/04/16 18:18	1
Chlorobenzene	ND		0.50		ug/L			02/04/16 18:18	1
Chloroethane	ND		1.0		ug/L			02/04/16 18:18	1
Chloroform	ND		1.0		ug/L			02/04/16 18:18	1
Chloromethane	ND		1.0		ug/L			02/04/16 18:18	1
2-Chlorotoluene	ND		0.50		ug/L			02/04/16 18:18	1
4-Chlorotoluene	ND		0.50		ug/L			02/04/16 18:18	1
Chlorodibromomethane	ND		0.50		ug/L			02/04/16 18:18	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/04/16 18:18	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/04/16 18:18	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/04/16 18:18	1
1,3-Dichloropropane	ND		1.0		ug/L			02/04/16 18:18	1
1,1-Dichloropropene	ND		0.50		ug/L			02/04/16 18:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/04/16 18:18	1
Ethylene Dibromide	ND		0.50		ug/L			02/04/16 18:18	1
Dibromomethane	ND		0.50		ug/L			02/04/16 18:18	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/04/16 18:18	1
1,1-Dichloroethane	ND		0.50		ug/L			02/04/16 18:18	1
1,2-Dichloroethane	ND		0.50		ug/L			02/04/16 18:18	1
1,1-Dichloroethene	ND		0.50		ug/L			02/04/16 18:18	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/04/16 18:18	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/04/16 18:18	1
1,2-Dichloropropane	ND		0.50		ug/L			02/04/16 18:18	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/04/16 18:18	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/04/16 18:18	1
Ethylbenzene	**3.7**		0.50		ug/L			02/04/16 18:18	1
Hexachlorobutadiene	ND		1.0		ug/L			02/04/16 18:18	1
2-Hexanone	ND		50		ug/L			02/04/16 18:18	1
Isopropylbenzene	**18**		0.50		ug/L			02/04/16 18:18	1
4-Isopropyltoluene	ND		1.0		ug/L			02/04/16 18:18	1
Methylene Chloride	ND		5.0		ug/L			02/04/16 18:18	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/04/16 18:18	1
Naphthalene	**74**		1.0		ug/L			02/04/16 18:18	1
N-Propylbenzene	**19**		1.0		ug/L			02/04/16 18:18	1
Styrene	ND		0.50		ug/L			02/04/16 18:18	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/04/16 18:18	1

Client Sample ID: MW-8
Date Collected: 02/02/16 15:25
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/04/16 18:18	1
Tetrachloroethene	ND		0.50		ug/L			02/04/16 18:18	1
Toluene	**12**		0.50		ug/L			02/04/16 18:18	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/04/16 18:18	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/04/16 18:18	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/04/16 18:18	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/04/16 18:18	1
Trichloroethene	ND		0.50		ug/L			02/04/16 18:18	1
Trichlorofluoromethane	ND		1.0		ug/L			02/04/16 18:18	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/04/16 18:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/04/16 18:18	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/04/16 18:18	1
1,3,5-Trimethylbenzene	**0.73**		0.50		ug/L			02/04/16 18:18	1
Vinyl acetate	ND		10		ug/L			02/04/16 18:18	1
Vinyl chloride	ND		0.50		ug/L			02/04/16 18:18	1
Xylenes, Total	**20**		1.0		ug/L			02/04/16 18:18	1
2,2-Dichloropropane	ND		0.50		ug/L			02/04/16 18:18	1
Gasoline Range Organics (GRO) -C5-C12	**2200**		50		ug/L			02/04/16 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*67 - 130*		*02/04/16 18:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*02/04/16 18:18*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*02/04/16 18:18*	*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			02/03/16 00:30	1
Sulfate	**8.3**		1.0		mg/L			02/03/16 00:30	1
Nitrate as NO3	ND		1.0		mg/L			02/03/16 00:30	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.6**		0.020		mg/L		02/04/16 17:58	02/16/16 16:21	1
Potassium	**3.5**		1.0		mg/L		02/04/16 17:58	02/16/16 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**28**		0.10		mg/L			02/17/16 16:06	1
Ferrous Iron	**11**	**HF**	2.0		mg/L			02/02/16 18:41	20
Ammonia	**0.33**		0.20		mg/L		02/04/16 16:16	02/04/16 21:27	1
Orthophosphate as P	ND		0.020		mg/L			02/03/16 16:46	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

Client Sample ID: MW-9
Date Collected: 02/02/16 14:15
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-6
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		0.50		ug/L			02/04/16 17:20	1
Acetone	ND		50		ug/L			02/04/16 17:20	1
Benzene	ND		0.50		ug/L			02/04/16 17:20	1
Dichlorobromomethane	ND		0.50		ug/L			02/04/16 17:20	1
Bromobenzene	ND		1.0		ug/L			02/04/16 17:20	1
Chlorobromomethane	ND		1.0		ug/L			02/04/16 17:20	1
Bromoform	ND		1.0		ug/L			02/04/16 17:20	1
Bromomethane	ND		1.0		ug/L			02/04/16 17:20	1
2-Butanone (MEK)	ND		50		ug/L			02/04/16 17:20	1
n-Butylbenzene	ND		1.0		ug/L			02/04/16 17:20	1
sec-Butylbenzene	ND		1.0		ug/L			02/04/16 17:20	1
tert-Butylbenzene	ND		1.0		ug/L			02/04/16 17:20	1
Carbon disulfide	ND		5.0		ug/L			02/04/16 17:20	1
Carbon tetrachloride	ND		0.50		ug/L			02/04/16 17:20	1
Chlorobenzene	ND		0.50		ug/L			02/04/16 17:20	1
Chloroethane	ND		1.0		ug/L			02/04/16 17:20	1
Chloroform	ND		1.0		ug/L			02/04/16 17:20	1
Chloromethane	ND		1.0		ug/L			02/04/16 17:20	1
2-Chlorotoluene	ND		0.50		ug/L			02/04/16 17:20	1
4-Chlorotoluene	ND		0.50		ug/L			02/04/16 17:20	1
Chlorodibromomethane	ND		0.50		ug/L			02/04/16 17:20	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/04/16 17:20	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/04/16 17:20	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/04/16 17:20	1
1,3-Dichloropropane	ND		1.0		ug/L			02/04/16 17:20	1
1,1-Dichloropropene	ND		0.50		ug/L			02/04/16 17:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/04/16 17:20	1
Ethylene Dibromide	ND		0.50		ug/L			02/04/16 17:20	1
Dibromomethane	ND		0.50		ug/L			02/04/16 17:20	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/04/16 17:20	1
1,1-Dichloroethane	ND		0.50		ug/L			02/04/16 17:20	1
1,2-Dichloroethane	ND		0.50		ug/L			02/04/16 17:20	1
1,1-Dichloroethene	ND		0.50		ug/L			02/04/16 17:20	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/04/16 17:20	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/04/16 17:20	1
1,2-Dichloropropane	ND		0.50		ug/L			02/04/16 17:20	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/04/16 17:20	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/04/16 17:20	1
Ethylbenzene	ND		0.50		ug/L			02/04/16 17:20	1
Hexachlorobutadiene	ND		1.0		ug/L			02/04/16 17:20	1
2-Hexanone	ND		50		ug/L			02/04/16 17:20	1
Isopropylbenzene	ND		0.50		ug/L			02/04/16 17:20	1
4-Isopropyltoluene	ND		1.0		ug/L			02/04/16 17:20	1
Methylene Chloride	ND		5.0		ug/L			02/04/16 17:20	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/04/16 17:20	1
Naphthalene	ND		1.0		ug/L			02/04/16 17:20	1
N-Propylbenzene	ND		1.0		ug/L			02/04/16 17:20	1
Styrene	ND		0.50		ug/L			02/04/16 17:20	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/04/16 17:20	1

Client Sample ID: MW-9
Date Collected: 02/02/16 14:15
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/04/16 17:20	1
Tetrachloroethene	ND		0.50		ug/L			02/04/16 17:20	1
Toluene	ND		0.50		ug/L			02/04/16 17:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/04/16 17:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/04/16 17:20	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/04/16 17:20	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/04/16 17:20	1
Trichloroethene	ND		0.50		ug/L			02/04/16 17:20	1
Trichlorofluoromethane	ND		1.0		ug/L			02/04/16 17:20	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/04/16 17:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/04/16 17:20	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/04/16 17:20	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/04/16 17:20	1
Vinyl acetate	ND		10		ug/L			02/04/16 17:20	1
Vinyl chloride	ND		0.50		ug/L			02/04/16 17:20	1
Xylenes, Total	ND		1.0		ug/L			02/04/16 17:20	1
2,2-Dichloropropane	ND		0.50		ug/L			02/04/16 17:20	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/04/16 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*02/04/16 17:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*		*02/04/16 17:20*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*02/04/16 17:20*	*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			02/03/16 01:04	1
Sulfate	**63**		10		mg/L			02/03/16 01:21	10
Nitrate as NO3	**18**		1.0		mg/L			02/03/16 01:04	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.8**		0.020		mg/L		02/04/16 17:58	02/16/16 16:26	1
Potassium	**2.7**		1.0		mg/L		02/04/16 17:58	02/16/16 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**22**		0.10		mg/L			02/17/16 16:06	1
Ferrous Iron	ND	HF	0.10		mg/L			02/02/16 18:41	1
Ammonia	ND		0.20		mg/L		02/04/16 16:16	02/04/16 21:35	1
Orthophosphate as P	**0.038**		0.020		mg/L			02/03/16 16:46	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

Client Sample ID: MW-10
Date Collected: 02/02/16 14:50
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-7
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		0.50		ug/L			02/04/16 17:49	1
Acetone	ND		50		ug/L			02/04/16 17:49	1
Benzene	ND		0.50		ug/L			02/04/16 17:49	1
Dichlorobromomethane	ND		0.50		ug/L			02/04/16 17:49	1
Bromobenzene	ND		1.0		ug/L			02/04/16 17:49	1
Chlorobromomethane	ND		1.0		ug/L			02/04/16 17:49	1
Bromoform	ND		1.0		ug/L			02/04/16 17:49	1
Bromomethane	ND		1.0		ug/L			02/04/16 17:49	1
2-Butanone (MEK)	ND		50		ug/L			02/04/16 17:49	1
n-Butylbenzene	ND		1.0		ug/L			02/04/16 17:49	1
sec-Butylbenzene	ND		1.0		ug/L			02/04/16 17:49	1
tert-Butylbenzene	ND		1.0		ug/L			02/04/16 17:49	1
Carbon disulfide	ND		5.0		ug/L			02/04/16 17:49	1
Carbon tetrachloride	ND		0.50		ug/L			02/04/16 17:49	1
Chlorobenzene	ND		0.50		ug/L			02/04/16 17:49	1
Chloroethane	ND		1.0		ug/L			02/04/16 17:49	1
Chloroform	ND		1.0		ug/L			02/04/16 17:49	1
Chloromethane	ND		1.0		ug/L			02/04/16 17:49	1
2-Chlorotoluene	ND		0.50		ug/L			02/04/16 17:49	1
4-Chlorotoluene	ND		0.50		ug/L			02/04/16 17:49	1
Chlorodibromomethane	ND		0.50		ug/L			02/04/16 17:49	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/04/16 17:49	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/04/16 17:49	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/04/16 17:49	1
1,3-Dichloropropane	ND		1.0		ug/L			02/04/16 17:49	1
1,1-Dichloropropene	ND		0.50		ug/L			02/04/16 17:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/04/16 17:49	1
Ethylene Dibromide	ND		0.50		ug/L			02/04/16 17:49	1
Dibromomethane	ND		0.50		ug/L			02/04/16 17:49	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/04/16 17:49	1
1,1-Dichloroethane	ND		0.50		ug/L			02/04/16 17:49	1
1,2-Dichloroethane	ND		0.50		ug/L			02/04/16 17:49	1
1,1-Dichloroethene	ND		0.50		ug/L			02/04/16 17:49	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/04/16 17:49	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/04/16 17:49	1
1,2-Dichloropropane	ND		0.50		ug/L			02/04/16 17:49	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/04/16 17:49	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/04/16 17:49	1
Ethylbenzene	ND		0.50		ug/L			02/04/16 17:49	1
Hexachlorobutadiene	ND		1.0		ug/L			02/04/16 17:49	1
2-Hexanone	ND		50		ug/L			02/04/16 17:49	1
Isopropylbenzene	ND		0.50		ug/L			02/04/16 17:49	1
4-Isopropyltoluene	ND		1.0		ug/L			02/04/16 17:49	1
Methylene Chloride	ND		5.0		ug/L			02/04/16 17:49	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/04/16 17:49	1
Naphthalene	ND		1.0		ug/L			02/04/16 17:49	1
N-Propylbenzene	ND		1.0		ug/L			02/04/16 17:49	1
Styrene	ND		0.50		ug/L			02/04/16 17:49	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/04/16 17:49	1

Client Sample ID: MW-10
Date Collected: 02/02/16 14:50
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-7
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			02/04/16 17:49	1
Tetrachloroethene	ND		0.50		ug/L			02/04/16 17:49	1
Toluene	ND		0.50		ug/L			02/04/16 17:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/04/16 17:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/04/16 17:49	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/04/16 17:49	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/04/16 17:49	1
Trichloroethene	ND		0.50		ug/L			02/04/16 17:49	1
Trichlorofluoromethane	ND		1.0		ug/L			02/04/16 17:49	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/04/16 17:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/04/16 17:49	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/04/16 17:49	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/04/16 17:49	1
Vinyl acetate	ND		10		ug/L			02/04/16 17:49	1
Vinyl chloride	ND		0.50		ug/L			02/04/16 17:49	1
Xylenes, Total	ND		1.0		ug/L			02/04/16 17:49	1
2,2-Dichloropropane	ND		0.50		ug/L			02/04/16 17:49	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/04/16 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*02/04/16 17:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*		*02/04/16 17:49*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*02/04/16 17:49*	*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			02/03/16 01:38	1
Sulfate	**31**		10		mg/L			02/03/16 01:55	10
Nitrate as NO3	**27**		10		mg/L			02/03/16 01:55	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.28**		0.020		mg/L		02/04/16 17:58	02/16/16 16:31	1
Potassium	**2.6**		1.0		mg/L		02/04/16 17:58	02/16/16 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**21**		0.10		mg/L			02/17/16 16:06	1
Ferrous Iron	ND	HF	0.10		mg/L			02/02/16 18:41	1
Ammonia	ND		0.20		mg/L		02/04/16 16:16	02/04/16 21:38	1
Orthophosphate as P	ND		0.020		mg/L			02/03/16 16:46	1

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(67-130)	(72-130)	(70-130)
720-70141-1	MW-4R	99	97	100
720-70141-2	MW-5R	100	95	101
720-70141-3	MW-6R	94	94	99
720-70141-4	MW-7R	97	94	99
720-70141-5	MW-8	111	104	106
720-70141-6	MW-9	96	100	101
720-70141-7	MW-10	98	98	100
LCS 720-196721/5	Lab Control Sample	103	93	104
LCS 720-196721/7	Lab Control Sample	100	98	102
LCS 720-196853/5	Lab Control Sample	101	95	102
LCS 720-196853/7	Lab Control Sample	102	96	101
LCSD 720-196721/6	Lab Control Sample Dup	102	95	104
LCSD 720-196721/8	Lab Control Sample Dup	100	98	101
LCSD 720-196853/6	Lab Control Sample Dup	100	92	102
LCSD 720-196853/8	Lab Control Sample Dup	101	98	101
MB 720-196721/4	Method Blank	95	96	99
MB 720-196853/4	Method Blank	98	100	98

Surrogate Legend

BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 720-196721/4
Matrix: Water
Analysis Batch: 196721

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/02/16 19:11	1
Acetone	ND		50		ug/L			02/02/16 19:11	1
Benzene	ND		0.50		ug/L			02/02/16 19:11	1
Dichlorobromomethane	ND		0.50		ug/L			02/02/16 19:11	1
Bromobenzene	ND		1.0		ug/L			02/02/16 19:11	1
Chlorobromomethane	ND		1.0		ug/L			02/02/16 19:11	1
Bromoform	ND		1.0		ug/L			02/02/16 19:11	1
Bromomethane	ND		1.0		ug/L			02/02/16 19:11	1
2-Butanone (MEK)	ND		50		ug/L			02/02/16 19:11	1
n-Butylbenzene	ND		1.0		ug/L			02/02/16 19:11	1
sec-Butylbenzene	ND		1.0		ug/L			02/02/16 19:11	1
tert-Butylbenzene	ND		1.0		ug/L			02/02/16 19:11	1
Carbon disulfide	ND		5.0		ug/L			02/02/16 19:11	1
Carbon tetrachloride	ND		0.50		ug/L			02/02/16 19:11	1
Chlorobenzene	ND		0.50		ug/L			02/02/16 19:11	1
Chloroethane	ND		1.0		ug/L			02/02/16 19:11	1
Chloroform	ND		1.0		ug/L			02/02/16 19:11	1
Chloromethane	ND		1.0		ug/L			02/02/16 19:11	1
2-Chlorotoluene	ND		0.50		ug/L			02/02/16 19:11	1
4-Chlorotoluene	ND		0.50		ug/L			02/02/16 19:11	1
Chlorodibromomethane	ND		0.50		ug/L			02/02/16 19:11	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/02/16 19:11	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/02/16 19:11	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/02/16 19:11	1
1,3-Dichloropropane	ND		1.0		ug/L			02/02/16 19:11	1
1,1-Dichloropropene	ND		0.50		ug/L			02/02/16 19:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/02/16 19:11	1
Ethylene Dibromide	ND		0.50		ug/L			02/02/16 19:11	1
Dibromomethane	ND		0.50		ug/L			02/02/16 19:11	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/02/16 19:11	1
1,1-Dichloroethane	ND		0.50		ug/L			02/02/16 19:11	1
1,2-Dichloroethane	ND		0.50		ug/L			02/02/16 19:11	1
1,1-Dichloroethene	ND		0.50		ug/L			02/02/16 19:11	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/02/16 19:11	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/02/16 19:11	1
1,2-Dichloropropane	ND		0.50		ug/L			02/02/16 19:11	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/02/16 19:11	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/02/16 19:11	1
Ethylbenzene	ND		0.50		ug/L			02/02/16 19:11	1
Hexachlorobutadiene	ND		1.0		ug/L			02/02/16 19:11	1
2-Hexanone	ND		50		ug/L			02/02/16 19:11	1
Isopropylbenzene	ND		0.50		ug/L			02/02/16 19:11	1
4-Isopropyltoluene	ND		1.0		ug/L			02/02/16 19:11	1
Methylene Chloride	ND		5.0		ug/L			02/02/16 19:11	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/02/16 19:11	1
Naphthalene	ND		1.0		ug/L			02/02/16 19:11	1
N-Propylbenzene	ND		1.0		ug/L			02/02/16 19:11	1
Styrene	ND		0.50		ug/L			02/02/16 19:11	1

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

Lab Sample ID: MB 720-196721/4
Matrix: Water
Analysis Batch: 196721

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/02/16 19:11	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/02/16 19:11	1
Tetrachloroethene	ND		0.50		ug/L			02/02/16 19:11	1
Toluene	ND		0.50		ug/L			02/02/16 19:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/02/16 19:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/02/16 19:11	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/02/16 19:11	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/02/16 19:11	1
Trichloroethene	ND		0.50		ug/L			02/02/16 19:11	1
Trichlorofluoromethane	ND		1.0		ug/L			02/02/16 19:11	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/02/16 19:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/02/16 19:11	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/02/16 19:11	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/02/16 19:11	1
Vinyl acetate	ND		10		ug/L			02/02/16 19:11	1
Vinyl chloride	ND		0.50		ug/L			02/02/16 19:11	1
Xylenes, Total	ND		1.0		ug/L			02/02/16 19:11	1
2,2-Dichloropropane	ND		0.50		ug/L			02/02/16 19:11	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/02/16 19:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*02/02/16 19:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*		*02/02/16 19:11*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*02/02/16 19:11*	*1*

Lab Sample ID: LCS 720-196721/5
Matrix: Water
Analysis Batch: 196721

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	21.0		ug/L		84	62 - 130
Acetone	100	117		ug/L		117	26 - 180
Benzene	25.0	22.2		ug/L		89	79 - 130
Dichlorobromomethane	25.0	21.2		ug/L		85	70 - 130
Bromobenzene	25.0	21.7		ug/L		87	70 - 130
Chlorobromomethane	25.0	21.3		ug/L		85	70 - 130
Bromoform	25.0	23.7		ug/L		95	68 - 136
Bromomethane	25.0	20.3		ug/L		81	43 - 151
2-Butanone (MEK)	100	103		ug/L		103	54 - 130
n-Butylbenzene	25.0	21.6		ug/L		86	70 - 142
sec-Butylbenzene	25.0	21.8		ug/L		87	70 - 134
tert-Butylbenzene	25.0	22.8		ug/L		91	70 - 135
Carbon disulfide	25.0	17.6		ug/L		70	58 - 130
Carbon tetrachloride	25.0	20.9		ug/L		84	70 - 146
Chlorobenzene	25.0	23.0		ug/L		92	70 - 130
Chloroethane	25.0	21.2		ug/L		85	62 - 138
Chloroform	25.0	20.4		ug/L		82	70 - 130

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

Lab Sample ID: LCS 720-196721/5
Matrix: Water
Analysis Batch: 196721

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	19.2		ug/L		77	52 - 175
2-Chlorotoluene	25.0	20.8		ug/L		83	70 - 130
4-Chlorotoluene	25.0	21.1		ug/L		84	70 - 130
Chlorodibromomethane	25.0	21.7		ug/L		87	70 - 145
1,2-Dichlorobenzene	25.0	21.0		ug/L		84	70 - 130
1,3-Dichlorobenzene	25.0	21.3		ug/L		85	70 - 130
1,4-Dichlorobenzene	25.0	21.3		ug/L		85	70 - 130
1,3-Dichloropropane	25.0	21.8		ug/L		87	70 - 130
1,1-Dichloropropene	25.0	20.4		ug/L		82	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	20.5		ug/L		82	70 - 136
Ethylene Dibromide	25.0	22.2		ug/L		89	70 - 130
Dibromomethane	25.0	19.7		ug/L		79	70 - 130
Dichlorodifluoromethane	25.0	14.5		ug/L		58	34 - 132
1,1-Dichloroethane	25.0	21.2		ug/L		85	70 - 130
1,2-Dichloroethane	25.0	21.2		ug/L		85	61 - 132
1,1-Dichloroethene	25.0	18.6		ug/L		74	64 - 128
cis-1,2-Dichloroethene	25.0	20.1		ug/L		80	70 - 130
trans-1,2-Dichloroethene	25.0	21.3		ug/L		85	68 - 130
1,2-Dichloropropane	25.0	22.0		ug/L		88	70 - 130
cis-1,3-Dichloropropene	25.0	22.0		ug/L		88	70 - 130
trans-1,3-Dichloropropene	25.0	23.3		ug/L		93	70 - 140
Ethylbenzene	25.0	20.9		ug/L		84	80 - 120
Hexachlorobutadiene	25.0	23.0		ug/L		92	70 - 130
2-Hexanone	100	94.0		ug/L		94	60 - 164
Isopropylbenzene	25.0	21.7		ug/L		87	70 - 130
4-Isopropyltoluene	25.0	21.4		ug/L		85	70 - 130
Methylene Chloride	25.0	22.4		ug/L		90	70 - 147
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101	58 - 130
Naphthalene	25.0	21.3		ug/L		85	70 - 130
N-Propylbenzene	25.0	21.9		ug/L		87	70 - 130
Styrene	25.0	21.8		ug/L		87	70 - 130
1,1,1,2-Tetrachloroethane	25.0	22.5		ug/L		90	70 - 130
1,1,2,2-Tetrachloroethane	25.0	20.2		ug/L		81	70 - 130
Tetrachloroethene	25.0	22.5		ug/L		90	70 - 130
Toluene	25.0	22.1		ug/L		88	78 - 120
1,2,3-Trichlorobenzene	25.0	21.2		ug/L		85	70 - 130
1,2,4-Trichlorobenzene	25.0	22.2		ug/L		89	70 - 130
1,1,1-Trichloroethane	25.0	20.2		ug/L		81	70 - 130
1,1,2-Trichloroethane	25.0	22.1		ug/L		89	70 - 130
Trichloroethene	25.0	22.4		ug/L		90	70 - 130
Trichlorofluoromethane	25.0	22.9		ug/L		92	66 - 132
1,2,3-Trichloropropane	25.0	21.9		ug/L		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	19.3		ug/L		77	42 - 162
1,2,4-Trimethylbenzene	25.0	21.1		ug/L		84	70 - 132
1,3,5-Trimethylbenzene	25.0	21.2		ug/L		85	70 - 130
Vinyl acetate	25.0	21.8		ug/L		87	43 - 163
Vinyl chloride	25.0	17.9		ug/L		72	54 - 135

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

Lab Sample ID: LCS 720-196721/5
Matrix: Water
Analysis Batch: 196721

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	21.9		ug/L		88	70 - 142
o-Xylene	25.0	20.9		ug/L		84	70 - 130
2,2-Dichloropropane	25.0	21.1		ug/L		85	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCS 720-196721/7
Matrix: Water
Analysis Batch: 196721

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	522		ug/L		104	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 720-196721/6
Matrix: Water
Analysis Batch: 196721

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	21.6		ug/L		86	62 - 130	3	20
Acetone	100	112		ug/L		112	26 - 180	4	30
Benzene	25.0	21.6		ug/L		87	79 - 130	3	20
Dichlorobromomethane	25.0	21.1		ug/L		84	70 - 130	1	20
Bromobenzene	25.0	21.7		ug/L		87	70 - 130	0	20
Chlorobromomethane	25.0	21.1		ug/L		84	70 - 130	1	20
Bromoform	25.0	24.5		ug/L		98	68 - 136	3	20
Bromomethane	25.0	20.2		ug/L		81	43 - 151	0	20
2-Butanone (MEK)	100	112		ug/L		112	54 - 130	8	20
n-Butylbenzene	25.0	21.1		ug/L		84	70 - 142	2	20
sec-Butylbenzene	25.0	21.4		ug/L		86	70 - 134	1	20
tert-Butylbenzene	25.0	22.6		ug/L		90	70 - 135	1	20
Carbon disulfide	25.0	17.0		ug/L		68	58 - 130	3	20
Carbon tetrachloride	25.0	20.2		ug/L		81	70 - 146	3	20
Chlorobenzene	25.0	22.7		ug/L		91	70 - 130	1	20
Chloroethane	25.0	20.9		ug/L		84	62 - 138	1	20
Chloroform	25.0	20.1		ug/L		80	70 - 130	2	20
Chloromethane	25.0	19.1		ug/L		76	52 - 175	0	20
2-Chlorotoluene	25.0	21.1		ug/L		85	70 - 130	2	20
4-Chlorotoluene	25.0	21.0		ug/L		84	70 - 130	0	20
Chlorodibromomethane	25.0	21.6		ug/L		86	70 - 145	1	20

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

Lab Sample ID: LCSD 720-196721/6
Matrix: Water
Analysis Batch: 196721

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	21.0		ug/L		84	70 - 130	0	20
1,3-Dichlorobenzene			25.0	21.1		ug/L		84	70 - 130	1	20
1,4-Dichlorobenzene			25.0	21.3		ug/L		85	70 - 130	0	20
1,3-Dichloropropane			25.0	21.9		ug/L		88	70 - 130	1	20
1,1-Dichloropropene			25.0	20.0		ug/L		80	70 - 130	2	20
1,2-Dibromo-3-Chloropropane			25.0	21.9		ug/L		88	70 - 136	7	20
Ethylene Dibromide			25.0	22.2		ug/L		89	70 - 130	0	20
Dibromomethane			25.0	20.0		ug/L		80	70 - 130	2	20
Dichlorodifluoromethane			25.0	14.5		ug/L		58	34 - 132	0	20
1,1-Dichloroethane			25.0	20.6		ug/L		82	70 - 130	3	20
1,2-Dichloroethane			25.0	21.2		ug/L		85	61 - 132	0	20
1,1-Dichloroethene			25.0	18.0		ug/L		72	64 - 128	3	20
cis-1,2-Dichloroethene			25.0	19.9		ug/L		80	70 - 130	1	20
trans-1,2-Dichloroethene			25.0	20.5		ug/L		82	68 - 130	3	20
1,2-Dichloropropane			25.0	21.9		ug/L		88	70 - 130	0	20
cis-1,3-Dichloropropene			25.0	21.8		ug/L		87	70 - 130	1	20
trans-1,3-Dichloropropene			25.0	23.3		ug/L		93	70 - 140	0	20
Ethylbenzene			25.0	20.5		ug/L		82	80 - 120	2	20
Hexachlorobutadiene			25.0	23.1		ug/L		92	70 - 130	0	20
2-Hexanone			100	101		ug/L		101	60 - 164	7	20
Isopropylbenzene			25.0	21.1		ug/L		85	70 - 130	3	20
4-Isopropyltoluene			25.0	21.1		ug/L		84	70 - 130	1	20
Methylene Chloride			25.0	22.0		ug/L		88	70 - 147	2	20
4-Methyl-2-pentanone (MIBK)			100	110		ug/L		110	58 - 130	9	20
Naphthalene			25.0	22.8		ug/L		91	70 - 130	7	20
N-Propylbenzene			25.0	21.5		ug/L		86	70 - 130	1	20
Styrene			25.0	21.4		ug/L		86	70 - 130	2	20
1,1,1,2-Tetrachloroethane			25.0	22.5		ug/L		90	70 - 130	0	20
1,1,2,2-Tetrachloroethane			25.0	21.1		ug/L		84	70 - 130	4	20
Tetrachloroethene			25.0	21.8		ug/L		87	70 - 130	3	20
Toluene			25.0	21.5		ug/L		86	78 - 120	3	20
1,2,3-Trichlorobenzene			25.0	21.8		ug/L		87	70 - 130	3	20
1,2,4-Trichlorobenzene			25.0	22.6		ug/L		90	70 - 130	2	20
1,1,1-Trichloroethane			25.0	19.6		ug/L		78	70 - 130	3	20
1,1,2-Trichloroethane			25.0	22.6		ug/L		90	70 - 130	2	20
Trichloroethene			25.0	21.9		ug/L		88	70 - 130	2	20
Trichlorofluoromethane			25.0	22.8		ug/L		91	66 - 132	0	20
1,2,3-Trichloropropane			25.0	22.7		ug/L		91	70 - 130	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	18.6		ug/L		74	42 - 162	4	20
1,2,4-Trimethylbenzene			25.0	20.7		ug/L		83	70 - 132	2	20
1,3,5-Trimethylbenzene			25.0	20.8		ug/L		83	70 - 130	2	20
Vinyl acetate			25.0	22.7		ug/L		91	43 - 163	4	20
Vinyl chloride			25.0	17.8		ug/L		71	54 - 135	0	20
m-Xylene & p-Xylene			25.0	21.6		ug/L		86	70 - 142	2	20
o-Xylene			25.0	20.6		ug/L		82	70 - 130	1	20
2,2-Dichloropropane			25.0	20.0		ug/L		80	70 - 140	6	20

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

Lab Sample ID: LCSD 720-196721/6
Matrix: Water
Analysis Batch: 196721

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-196721/8
Matrix: Water
Analysis Batch: 196721

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	504		ug/L		101	62 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 720-196853/4
Matrix: Water
Analysis Batch: 196853

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/04/16 11:05	1
Acetone	ND		50		ug/L			02/04/16 11:05	1
Benzene	ND		0.50		ug/L			02/04/16 11:05	1
Dichlorobromomethane	ND		0.50		ug/L			02/04/16 11:05	1
Bromobenzene	ND		1.0		ug/L			02/04/16 11:05	1
Chlorobromomethane	ND		1.0		ug/L			02/04/16 11:05	1
Bromoform	ND		1.0		ug/L			02/04/16 11:05	1
Bromomethane	ND		1.0		ug/L			02/04/16 11:05	1
2-Butanone (MEK)	ND		50		ug/L			02/04/16 11:05	1
n-Butylbenzene	ND		1.0		ug/L			02/04/16 11:05	1
sec-Butylbenzene	ND		1.0		ug/L			02/04/16 11:05	1
tert-Butylbenzene	ND		1.0		ug/L			02/04/16 11:05	1
Carbon disulfide	ND		5.0		ug/L			02/04/16 11:05	1
Carbon tetrachloride	ND		0.50		ug/L			02/04/16 11:05	1
Chlorobenzene	ND		0.50		ug/L			02/04/16 11:05	1
Chloroethane	ND		1.0		ug/L			02/04/16 11:05	1
Chloroform	ND		1.0		ug/L			02/04/16 11:05	1
Chloromethane	ND		1.0		ug/L			02/04/16 11:05	1
2-Chlorotoluene	ND		0.50		ug/L			02/04/16 11:05	1
4-Chlorotoluene	ND		0.50		ug/L			02/04/16 11:05	1
Chlorodibromomethane	ND		0.50		ug/L			02/04/16 11:05	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/04/16 11:05	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/04/16 11:05	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/04/16 11:05	1
1,3-Dichloropropane	ND		1.0		ug/L			02/04/16 11:05	1
1,1-Dichloropropene	ND		0.50		ug/L			02/04/16 11:05	1

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

Lab Sample ID: MB 720-196853/4
Matrix: Water
Analysis Batch: 196853

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/04/16 11:05	1
Ethylene Dibromide	ND		0.50		ug/L			02/04/16 11:05	1
Dibromomethane	ND		0.50		ug/L			02/04/16 11:05	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/04/16 11:05	1
1,1-Dichloroethane	ND		0.50		ug/L			02/04/16 11:05	1
1,2-Dichloroethane	ND		0.50		ug/L			02/04/16 11:05	1
1,1-Dichloroethene	ND		0.50		ug/L			02/04/16 11:05	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/04/16 11:05	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/04/16 11:05	1
1,2-Dichloropropane	ND		0.50		ug/L			02/04/16 11:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/04/16 11:05	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/04/16 11:05	1
Ethylbenzene	ND		0.50		ug/L			02/04/16 11:05	1
Hexachlorobutadiene	ND		1.0		ug/L			02/04/16 11:05	1
2-Hexanone	ND		50		ug/L			02/04/16 11:05	1
Isopropylbenzene	ND		0.50		ug/L			02/04/16 11:05	1
4-Isopropyltoluene	ND		1.0		ug/L			02/04/16 11:05	1
Methylene Chloride	ND		5.0		ug/L			02/04/16 11:05	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/04/16 11:05	1
Naphthalene	ND		1.0		ug/L			02/04/16 11:05	1
N-Propylbenzene	ND		1.0		ug/L			02/04/16 11:05	1
Styrene	ND		0.50		ug/L			02/04/16 11:05	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/04/16 11:05	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/04/16 11:05	1
Tetrachloroethene	ND		0.50		ug/L			02/04/16 11:05	1
Toluene	ND		0.50		ug/L			02/04/16 11:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/04/16 11:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/04/16 11:05	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/04/16 11:05	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/04/16 11:05	1
Trichloroethene	ND		0.50		ug/L			02/04/16 11:05	1
Trichlorofluoromethane	ND		1.0		ug/L			02/04/16 11:05	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/04/16 11:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/04/16 11:05	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/04/16 11:05	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/04/16 11:05	1
Vinyl acetate	ND		10		ug/L			02/04/16 11:05	1
Vinyl chloride	ND		0.50		ug/L			02/04/16 11:05	1
Xylenes, Total	ND		1.0		ug/L			02/04/16 11:05	1
2,2-Dichloropropane	ND		0.50		ug/L			02/04/16 11:05	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/04/16 11:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*02/04/16 11:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*		*02/04/16 11:05*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*02/04/16 11:05*	*1*

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

Lab Sample ID: LCS 720-196853/5
Matrix: Water
Analysis Batch: 196853

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	23.7		ug/L		95	62 - 130
Acetone	100	106		ug/L		106	26 - 180
Benzene	25.0	24.6		ug/L		98	79 - 130
Dichlorobromomethane	25.0	22.7		ug/L		91	70 - 130
Bromobenzene	25.0	22.8		ug/L		91	70 - 130
Chlorobromomethane	25.0	22.9		ug/L		92	70 - 130
Bromoform	25.0	24.7		ug/L		99	68 - 136
Bromomethane	25.0	21.1		ug/L		85	43 - 151
2-Butanone (MEK)	100	102		ug/L		102	54 - 130
n-Butylbenzene	25.0	22.9		ug/L		91	70 - 142
sec-Butylbenzene	25.0	22.8		ug/L		91	70 - 134
tert-Butylbenzene	25.0	23.8		ug/L		95	70 - 135
Carbon disulfide	25.0	23.1		ug/L		93	58 - 130
Carbon tetrachloride	25.0	23.0		ug/L		92	70 - 146
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130
Chloroethane	25.0	21.4		ug/L		86	62 - 138
Chloroform	25.0	22.3		ug/L		89	70 - 130
Chloromethane	25.0	23.7		ug/L		95	52 - 175
2-Chlorotoluene	25.0	22.0		ug/L		88	70 - 130
4-Chlorotoluene	25.0	22.4		ug/L		90	70 - 130
Chlorodibromomethane	25.0	22.8		ug/L		91	70 - 145
1,2-Dichlorobenzene	25.0	22.2		ug/L		89	70 - 130
1,3-Dichlorobenzene	25.0	22.5		ug/L		90	70 - 130
1,4-Dichlorobenzene	25.0	22.6		ug/L		90	70 - 130
1,3-Dichloropropane	25.0	23.1		ug/L		92	70 - 130
1,1-Dichloropropene	25.0	22.8		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.8		ug/L		87	70 - 136
Ethylene Dibromide	25.0	23.5		ug/L		94	70 - 130
Dibromomethane	25.0	21.3		ug/L		85	70 - 130
Dichlorodifluoromethane	25.0	25.4		ug/L		101	34 - 132
1,1-Dichloroethane	25.0	23.6		ug/L		94	70 - 130
1,2-Dichloroethane	25.0	23.2		ug/L		93	61 - 132
1,1-Dichloroethene	25.0	22.4		ug/L		90	64 - 128
cis-1,2-Dichloroethene	25.0	22.3		ug/L		89	70 - 130
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	68 - 130
1,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
cis-1,3-Dichloropropene	25.0	23.5		ug/L		94	70 - 130
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	70 - 140
Ethylbenzene	25.0	22.3		ug/L		89	80 - 120
Hexachlorobutadiene	25.0	24.0		ug/L		96	70 - 130
2-Hexanone	100	87.9		ug/L		88	60 - 164
Isopropylbenzene	25.0	22.8		ug/L		91	70 - 130
4-Isopropyltoluene	25.0	22.5		ug/L		90	70 - 130
Methylene Chloride	25.0	24.8		ug/L		99	70 - 147
4-Methyl-2-pentanone (MIBK)	100	93.7		ug/L		94	58 - 130
Naphthalene	25.0	21.8		ug/L		87	70 - 130
N-Propylbenzene	25.0	23.3		ug/L		93	70 - 130
Styrene	25.0	23.0		ug/L		92	70 - 130

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

Lab Sample ID: LCS 720-196853/5
Matrix: Water
Analysis Batch: 196853

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	23.6		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.4		ug/L		85	70 - 130
Tetrachloroethene	25.0	24.3		ug/L		97	70 - 130
Toluene	25.0	23.5		ug/L		94	78 - 120
1,2,3-Trichlorobenzene	25.0	22.2		ug/L		89	70 - 130
1,2,4-Trichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,1,1-Trichloroethane	25.0	22.3		ug/L		89	70 - 130
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	70 - 130
Trichloroethene	25.0	24.4		ug/L		98	70 - 130
Trichlorofluoromethane	25.0	22.6		ug/L		90	66 - 132
1,2,3-Trichloropropane	25.0	22.8		ug/L		91	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.0		ug/L		92	42 - 162
1,2,4-Trimethylbenzene	25.0	22.2		ug/L		89	70 - 132
1,3,5-Trimethylbenzene	25.0	22.5		ug/L		90	70 - 130
Vinyl acetate	25.0	21.9		ug/L		88	43 - 163
Vinyl chloride	25.0	20.2		ug/L		81	54 - 135
m-Xylene & p-Xylene	25.0	23.5		ug/L		94	70 - 142
o-Xylene	25.0	22.3		ug/L		89	70 - 130
2,2-Dichloropropane	25.0	23.8		ug/L		95	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCS 720-196853/7
Matrix: Water
Analysis Batch: 196853

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	455		ug/L		91	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 720-196853/6
Matrix: Water
Analysis Batch: 196853

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	24.5		ug/L		98	62 - 130	4	20
Acetone	100	127		ug/L		127	26 - 180	18	30
Benzene	25.0	25.6		ug/L		102	79 - 130	4	20
Dichlorobromomethane	25.0	23.8		ug/L		95	70 - 130	5	20

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

Lab Sample ID: LCSD 720-196853/6
Matrix: Water
Analysis Batch: 196853

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
Bromobenzene	25.0	24.2		ug/L		97	70 - 130	6	20
Chlorobromomethane	25.0	24.2		ug/L		97	70 - 130	5	20
Bromoform	25.0	26.2		ug/L		105	68 - 136	6	20
Bromomethane	25.0	22.8		ug/L		91	43 - 151	8	20
2-Butanone (MEK)	100	105		ug/L		105	54 - 130	3	20
n-Butylbenzene	25.0	24.6		ug/L		98	70 - 142	7	20
sec-Butylbenzene	25.0	24.4		ug/L		98	70 - 134	7	20
tert-Butylbenzene	25.0	25.6		ug/L		102	70 - 135	7	20
Carbon disulfide	25.0	24.1		ug/L		96	58 - 130	4	20
Carbon tetrachloride	25.0	24.2		ug/L		97	70 - 146	5	20
Chlorobenzene	25.0	25.8		ug/L		103	70 - 130	5	20
Chloroethane	25.0	23.2		ug/L		93	62 - 138	8	20
Chloroform	25.0	23.1		ug/L		93	70 - 130	4	20
Chloromethane	25.0	25.9		ug/L		104	52 - 175	9	20
2-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130	10	20
4-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130	7	20
Chlorodibromomethane	25.0	23.8		ug/L		95	70 - 145	4	20
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130	6	20
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	7	20
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130	7	20
1,3-Dichloropropane	25.0	23.9		ug/L		96	70 - 130	4	20
1,1-Dichloropropene	25.0	23.9		ug/L		95	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	25.0	23.8		ug/L		95	70 - 136	9	20
Ethylene Dibromide	25.0	24.3		ug/L		97	70 - 130	3	20
Dibromomethane	25.0	22.2		ug/L		89	70 - 130	4	20
Dichlorodifluoromethane	25.0	27.1		ug/L		108	34 - 132	7	20
1,1-Dichloroethane	25.0	24.5		ug/L		98	70 - 130	4	20
1,2-Dichloroethane	25.0	24.4		ug/L		98	61 - 132	5	20
1,1-Dichloroethene	25.0	23.4		ug/L		94	64 - 128	4	20
cis-1,2-Dichloroethene	25.0	23.1		ug/L		92	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	25.1		ug/L		100	68 - 130	4	20
1,2-Dichloropropane	25.0	24.8		ug/L		99	70 - 130	5	20
cis-1,3-Dichloropropene	25.0	24.4		ug/L		98	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	25.2		ug/L		101	70 - 140	2	20
Ethylbenzene	25.0	23.4		ug/L		94	80 - 120	5	20
Hexachlorobutadiene	25.0	25.2		ug/L		101	70 - 130	5	20
2-Hexanone	100	98.2		ug/L		98	60 - 164	11	20
Isopropylbenzene	25.0	24.2		ug/L		97	70 - 130	6	20
4-Isopropyltoluene	25.0	24.1		ug/L		96	70 - 130	7	20
Methylene Chloride	25.0	25.7		ug/L		103	70 - 147	3	20
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	58 - 130	8	20
Naphthalene	25.0	24.0		ug/L		96	70 - 130	9	20
N-Propylbenzene	25.0	24.8		ug/L		99	70 - 130	6	20
Styrene	25.0	24.3		ug/L		97	70 - 130	6	20
1,1,1,2-Tetrachloroethane	25.0	25.1		ug/L		100	70 - 130	6	20
1,1,2,2-Tetrachloroethane	25.0	22.8		ug/L		91	70 - 130	7	20
Tetrachloroethene	25.0	25.3		ug/L		101	70 - 130	4	20
Toluene	25.0	25.0		ug/L		100	78 - 120	6	20

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

Lab Sample ID: LCSD 720-196853/6
Matrix: Water
Analysis Batch: 196853

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
1,2,3-Trichlorobenzene			25.0	23.9		ug/L		96	70 - 130	8	20
1,2,4-Trichlorobenzene			25.0	25.1		ug/L		100	70 - 130	8	20
1,1,1-Trichloroethane			25.0	23.5		ug/L		94	70 - 130	5	20
1,1,2-Trichloroethane			25.0	24.8		ug/L		99	70 - 130	4	20
Trichloroethene			25.0	25.4		ug/L		101	70 - 130	4	20
Trichlorofluoromethane			25.0	24.7		ug/L		99	66 - 132	9	20
1,2,3-Trichloropropane			25.0	24.3		ug/L		97	70 - 130	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	24.1		ug/L		96	42 - 162	5	20
1,2,4-Trimethylbenzene			25.0	23.6		ug/L		95	70 - 132	7	20
1,3,5-Trimethylbenzene			25.0	24.0		ug/L		96	70 - 130	6	20
Vinyl acetate			25.0	23.3		ug/L		93	43 - 163	6	20
Vinyl chloride			25.0	21.8		ug/L		87	54 - 135	7	20
m-Xylene & p-Xylene			25.0	24.7		ug/L		99	70 - 142	5	20
o-Xylene			25.0	23.6		ug/L		94	70 - 130	6	20
2,2-Dichloropropane			25.0	26.0		ug/L		104	70 - 140	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 720-196853/8
Matrix: Water
Analysis Batch: 196853

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	480		ug/L		96	62 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-196692/17
Matrix: Water
Analysis Batch: 196692

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			02/02/16 17:03	1
Nitrate as NO3	ND		1.0		mg/L			02/02/16 17:03	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 720-196692/18
Matrix: Water
Analysis Batch: 196692

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	10.0	9.96		mg/L		100	90 - 110
Nitrate as NO3	10.0	10.0		mg/L		100	90 - 110

Lab Sample ID: MB 720-196693/17
Matrix: Water
Analysis Batch: 196693

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			02/02/16 17:03	1

Lab Sample ID: LCS 720-196693/18
Matrix: Water
Analysis Batch: 196693

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	10.0		mg/L		100	90 - 110

Lab Sample ID: MB 720-196790/4
Matrix: Water
Analysis Batch: 196790

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			02/03/16 13:42	1
Nitrate as NO3	ND		1.0		mg/L			02/03/16 13:42	1

Lab Sample ID: LCS 720-196790/5
Matrix: Water
Analysis Batch: 196790

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	10.4		mg/L		104	90 - 110
Nitrate as NO3	10.0	10.0		mg/L		100	90 - 110

Lab Sample ID: 720-70141-4 MS
Matrix: Water
Analysis Batch: 196790

Client Sample ID: MW-7R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	ND		1000	1040		mg/L		104	80 - 120
Nitrate as NO3	200		1000	1200		mg/L		100	80 - 120

Lab Sample ID: 720-70141-4 MSD
Matrix: Water
Analysis Batch: 196790

Client Sample ID: MW-7R
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		1000	1020		mg/L		102	80 - 120	2	20
Nitrate as NO3	200		1000	1140		mg/L		94	80 - 120	5	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 720-196791/4
Matrix: Water
Analysis Batch: 196791

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			02/03/16 13:42	1

Lab Sample ID: LCS 720-196791/5
Matrix: Water
Analysis Batch: 196791

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.97		mg/L		100	90 - 110

Lab Sample ID: 720-70141-4 MS
Matrix: Water
Analysis Batch: 196791

Client Sample ID: MW-7R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND		1000	1020		mg/L		102	80 - 120

Lab Sample ID: 720-70141-4 MSD
Matrix: Water
Analysis Batch: 196791

Client Sample ID: MW-7R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND		1000	973		mg/L		97	80 - 120	4	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-196910/1-A
Matrix: Water
Analysis Batch: 197162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196910

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.020		mg/L		02/04/16 17:58	02/16/16 15:10	1
Potassium	ND		1.0		mg/L		02/04/16 17:58	02/16/16 15:10	1

Lab Sample ID: LCS 720-196910/2-A
Matrix: Water
Analysis Batch: 197162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	1.00	0.992		mg/L		99	85 - 115
Potassium	10.0	10.2		mg/L		102	85 - 115

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 720-196732/8
Matrix: Water
Analysis Batch: 196732

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			02/02/16 18:41	1

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

Lab Sample ID: LCS 720-196732/9
Matrix: Water
Analysis Batch: 196732

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: 720-70141-7 MS
Matrix: Water
Analysis Batch: 196732

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	ND	HF	1.00	1.02		mg/L		102	75 - 125

Lab Sample ID: 720-70141-7 MSD
Matrix: Water
Analysis Batch: 196732

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	ND	HF	1.00	1.02		mg/L		102	75 - 125	0	20

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-321978/1-A
Matrix: Water
Analysis Batch: 322004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/04/16 16:16	02/04/16 20:27	1

Lab Sample ID: LCS 500-321978/2-A
Matrix: Water
Analysis Batch: 322004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.50	2.51		mg/L		100	80 - 120

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 720-196821/11
Matrix: Water
Analysis Batch: 196821

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	ND		0.020		mg/L			02/03/16 16:46	1

Lab Sample ID: LCS 720-196821/12
Matrix: Water
Analysis Batch: 196821

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	0.200	0.185		mg/L		93	90 - 110

Method: SM 4500 P E - Orthophosphate (Continued)

Lab Sample ID: 720-70141-3 MS
Matrix: Water
Analysis Batch: 196821

Client Sample ID: MW-6R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	1.8		2.00	3.79		mg/L		100	75 - 125

Lab Sample ID: 720-70141-3 MSD
Matrix: Water
Analysis Batch: 196821

Client Sample ID: MW-6R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate as P	1.8		2.00	3.93		mg/L		107	75 - 125	4	20

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

GC/MS VOA

Analysis Batch: 196721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70141-1	MW-4R	Total/NA	Water	8260B/CA_LUFT MS	
720-70141-2	MW-5R	Total/NA	Water	8260B/CA_LUFT MS	
720-70141-3	MW-6R	Total/NA	Water	8260B/CA_LUFT MS	
720-70141-4	MW-7R	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-196721/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-196721/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-196721/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-196721/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-196721/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 196853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70141-5	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
720-70141-6	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
720-70141-7	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-196853/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-196853/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-196853/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-196853/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-196853/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

HPLC/IC

Analysis Batch: 196692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70141-1	MW-4R	Total/NA	Water	300.0	
720-70141-1	MW-4R	Total/NA	Water	300.0	
720-70141-2	MW-5R	Total/NA	Water	300.0	
720-70141-3	MW-6R	Total/NA	Water	300.0	
720-70141-4	MW-7R	Total/NA	Water	300.0	
720-70141-5	MW-8	Total/NA	Water	300.0	
720-70141-6	MW-9	Total/NA	Water	300.0	
720-70141-7	MW-10	Total/NA	Water	300.0	
720-70141-7	MW-10	Total/NA	Water	300.0	
LCS 720-196692/18	Lab Control Sample	Total/NA	Water	300.0	
MB 720-196692/17	Method Blank	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 196693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70141-1	MW-4R	Total/NA	Water	300.0	
720-70141-2	MW-5R	Total/NA	Water	300.0	
720-70141-3	MW-6R	Total/NA	Water	300.0	
720-70141-4	MW-7R	Total/NA	Water	300.0	
720-70141-5	MW-8	Total/NA	Water	300.0	
720-70141-6	MW-9	Total/NA	Water	300.0	
720-70141-7	MW-10	Total/NA	Water	300.0	
LCS 720-196693/18	Lab Control Sample	Total/NA	Water	300.0	
MB 720-196693/17	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 196790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70141-3	MW-6R	Total/NA	Water	300.0	
720-70141-4	MW-7R	Total/NA	Water	300.0	
720-70141-4 MS	MW-7R	Total/NA	Water	300.0	
720-70141-4 MSD	MW-7R	Total/NA	Water	300.0	
LCS 720-196790/5	Lab Control Sample	Total/NA	Water	300.0	
MB 720-196790/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 196791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70141-4	MW-7R	Total/NA	Water	300.0	
720-70141-4 MS	MW-7R	Total/NA	Water	300.0	
720-70141-4 MSD	MW-7R	Total/NA	Water	300.0	
LCS 720-196791/5	Lab Control Sample	Total/NA	Water	300.0	
MB 720-196791/4	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 196910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70141-1	MW-4R	Total/NA	Water	200.7	
720-70141-2	MW-5R	Total/NA	Water	200.7	
720-70141-3	MW-6R	Total/NA	Water	200.7	
720-70141-4	MW-7R	Total/NA	Water	200.7	
720-70141-5	MW-8	Total/NA	Water	200.7	
720-70141-6	MW-9	Total/NA	Water	200.7	
720-70141-7	MW-10	Total/NA	Water	200.7	
LCS 720-196910/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 720-196910/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 197162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70141-1	MW-4R	Total/NA	Water	200.7 Rev 4.4	196910
720-70141-2	MW-5R	Total/NA	Water	200.7 Rev 4.4	196910
720-70141-3	MW-6R	Total/NA	Water	200.7 Rev 4.4	196910
720-70141-4	MW-7R	Total/NA	Water	200.7 Rev 4.4	196910
720-70141-5	MW-8	Total/NA	Water	200.7 Rev 4.4	196910
720-70141-6	MW-9	Total/NA	Water	200.7 Rev 4.4	196910
720-70141-7	MW-10	Total/NA	Water	200.7 Rev 4.4	196910

Metals (Continued)

Analysis Batch: 197162 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-196910/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	196910
MB 720-196910/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	196910

General Chemistry

Analysis Batch: 196732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70141-1	MW-4R	Total/NA	Water	SM 3500 Fe B	
720-70141-2	MW-5R	Total/NA	Water	SM 3500 Fe B	
720-70141-3	MW-6R	Total/NA	Water	SM 3500 Fe B	
720-70141-4	MW-7R	Total/NA	Water	SM 3500 Fe B	
720-70141-5	MW-8	Total/NA	Water	SM 3500 Fe B	
720-70141-6	MW-9	Total/NA	Water	SM 3500 Fe B	
720-70141-7	MW-10	Total/NA	Water	SM 3500 Fe B	
720-70141-7 MS	MW-10	Total/NA	Water	SM 3500 Fe B	
720-70141-7 MSD	MW-10	Total/NA	Water	SM 3500 Fe B	
LCS 720-196732/9	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	
MB 720-196732/8	Method Blank	Total/NA	Water	SM 3500 Fe B	

Analysis Batch: 196821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70141-1	MW-4R	Total/NA	Water	SM 4500 P E	
720-70141-2	MW-5R	Total/NA	Water	SM 4500 P E	
720-70141-3	MW-6R	Total/NA	Water	SM 4500 P E	
720-70141-3 MS	MW-6R	Total/NA	Water	SM 4500 P E	
720-70141-3 MSD	MW-6R	Total/NA	Water	SM 4500 P E	
720-70141-4	MW-7R	Total/NA	Water	SM 4500 P E	
720-70141-5	MW-8	Total/NA	Water	SM 4500 P E	
720-70141-6	MW-9	Total/NA	Water	SM 4500 P E	
720-70141-7	MW-10	Total/NA	Water	SM 4500 P E	
LCS 720-196821/12	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 720-196821/11	Method Blank	Total/NA	Water	SM 4500 P E	

Analysis Batch: 197190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70141-1	MW-4R	Total/NA	Water	SM 3500	
720-70141-2	MW-5R	Total/NA	Water	SM 3500	
720-70141-3	MW-6R	Total/NA	Water	SM 3500	
720-70141-4	MW-7R	Total/NA	Water	SM 3500	
720-70141-5	MW-8	Total/NA	Water	SM 3500	
720-70141-6	MW-9	Total/NA	Water	SM 3500	
720-70141-7	MW-10	Total/NA	Water	SM 3500	

Prep Batch: 321978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70141-1	MW-4R	Total/NA	Water	SM 4500 NH3 B	
720-70141-2	MW-5R	Total/NA	Water	SM 4500 NH3 B	
720-70141-3	MW-6R	Total/NA	Water	SM 4500 NH3 B	
720-70141-4	MW-7R	Total/NA	Water	SM 4500 NH3 B	
720-70141-5	MW-8	Total/NA	Water	SM 4500 NH3 B	

General Chemistry (Continued)

Prep Batch: 321978 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70141-6	MW-9	Total/NA	Water	SM 4500 NH3 B	
720-70141-7	MW-10	Total/NA	Water	SM 4500 NH3 B	
LCS 500-321978/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
MB 500-321978/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 322004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70141-1	MW-4R	Total/NA	Water	SM 4500 NH3 G	321978
720-70141-2	MW-5R	Total/NA	Water	SM 4500 NH3 G	321978
720-70141-3	MW-6R	Total/NA	Water	SM 4500 NH3 G	321978
720-70141-4	MW-7R	Total/NA	Water	SM 4500 NH3 G	321978
720-70141-5	MW-8	Total/NA	Water	SM 4500 NH3 G	321978
720-70141-6	MW-9	Total/NA	Water	SM 4500 NH3 G	321978
720-70141-7	MW-10	Total/NA	Water	SM 4500 NH3 G	321978
LCS 500-321978/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	321978
MB 500-321978/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	321978

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

Client Sample ID: MW-4R
Date Collected: 02/02/16 10:35
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		20	196721	02/03/16 02:00	YB1	TAL PLS
Total/NA	Analysis	300.0		1	196692	02/02/16 21:38	MJK	TAL PLS
Total/NA	Analysis	300.0		10	196692	02/02/16 21:55	MJK	TAL PLS
Total/NA	Analysis	300.0		10	196693	02/02/16 21:55	MJK	TAL PLS
Total/NA	Prep	200.7			196910	02/04/16 17:58	ASB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	197162	02/16/16 15:50	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	197190	02/17/16 16:06	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	196732	02/02/16 18:41	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			321978	02/04/16 16:16	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		2	322004	02/04/16 21:16	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	196821	02/03/16 16:46	EYT	TAL PLS

Client Sample ID: MW-5R
Date Collected: 02/02/16 11:30
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		100	196721	02/03/16 02:29	YB1	TAL PLS
Total/NA	Analysis	300.0		1	196692	02/02/16 22:12	MJK	TAL PLS
Total/NA	Analysis	300.0		10	196693	02/02/16 22:30	MJK	TAL PLS
Total/NA	Prep	200.7			196910	02/04/16 17:58	ASB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	197162	02/16/16 15:55	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	197190	02/17/16 16:06	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	196732	02/02/16 18:41	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			321978	02/04/16 16:16	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	322004	02/04/16 21:18	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	196821	02/03/16 16:46	EYT	TAL PLS

Client Sample ID: MW-6R
Date Collected: 02/02/16 12:20
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-3
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	196721	02/03/16 02:59	YB1	TAL PLS
Total/NA	Analysis	300.0		1	196692	02/02/16 22:47	MJK	TAL PLS
Total/NA	Analysis	300.0		10	196693	02/02/16 23:04	MJK	TAL PLS
Total/NA	Analysis	300.0		100	196790	02/03/16 14:50	MJK	TAL PLS
Total/NA	Prep	200.7			196910	02/04/16 17:58	ASB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	197162	02/16/16 16:11	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	197190	02/17/16 16:06	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	196732	02/02/16 18:41	MJK	TAL PLS

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

Client Sample ID: MW-6R
Date Collected: 02/02/16 12:20
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 NH3 B			321978	02/04/16 16:16	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		2	322004	02/04/16 21:21	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		10	196821	02/03/16 16:46	EYT	TAL PLS

Client Sample ID: MW-7R
Date Collected: 02/02/16 12:55
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		500	196721	02/03/16 03:28	YB1	TAL PLS
Total/NA	Analysis	300.0		1	196692	02/02/16 23:55	MJK	TAL PLS
Total/NA	Analysis	300.0		10	196693	02/03/16 00:12	MJK	TAL PLS
Total/NA	Analysis	300.0		100	196790	02/03/16 15:07	MJK	TAL PLS
Total/NA	Analysis	300.0		100	196791	02/03/16 15:07	MJK	TAL PLS
Total/NA	Prep	200.7			196910	02/04/16 17:58	ASB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	197162	02/16/16 16:16	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	197190	02/17/16 16:06	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	196732	02/02/16 18:41	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			321978	02/04/16 16:16	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	322004	02/04/16 21:24	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	196821	02/03/16 16:46	EYT	TAL PLS

Client Sample ID: MW-8
Date Collected: 02/02/16 15:25
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-5
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	196853	02/04/16 18:18	YB1	TAL PLS
Total/NA	Analysis	300.0		1	196692	02/03/16 00:30	MJK	TAL PLS
Total/NA	Analysis	300.0		1	196693	02/03/16 00:30	MJK	TAL PLS
Total/NA	Prep	200.7			196910	02/04/16 17:58	ASB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	197162	02/16/16 16:21	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	197190	02/17/16 16:06	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		20	196732	02/02/16 18:41	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			321978	02/04/16 16:16	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	322004	02/04/16 21:27	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	196821	02/03/16 16:46	EYT	TAL PLS

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

Client Sample ID: MW-9

Date Collected: 02/02/16 14:15
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-6
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	196853	02/04/16 17:20	YB1	TAL PLS
Total/NA	Analysis	300.0		1	196692	02/03/16 01:04	MJK	TAL PLS
Total/NA	Analysis	300.0		10	196693	02/03/16 01:21	MJK	TAL PLS
Total/NA	Prep	200.7			196910	02/04/16 17:58	ASB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	197162	02/16/16 16:26	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	197190	02/17/16 16:06	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	196732	02/02/16 18:41	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			321978	02/04/16 16:16	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	322004	02/04/16 21:35	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	196821	02/03/16 16:46	EYT	TAL PLS

Client Sample ID: MW-10

Date Collected: 02/02/16 14:50
Date Received: 02/02/16 17:55

Lab Sample ID: 720-70141-7
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	196853	02/04/16 17:49	YB1	TAL PLS
Total/NA	Analysis	300.0		1	196692	02/03/16 01:38	MJK	TAL PLS
Total/NA	Analysis	300.0		10	196692	02/03/16 01:55	MJK	TAL PLS
Total/NA	Analysis	300.0		10	196693	02/03/16 01:55	MJK	TAL PLS
Total/NA	Prep	200.7			196910	02/04/16 17:58	ASB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	197162	02/16/16 16:31	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	197190	02/17/16 16:06	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	196732	02/02/16 18:41	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			321978	02/04/16 16:16	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	322004	02/04/16 21:38	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	196821	02/03/16 16:46	EYT	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: 720-70141-1

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	01-31-17

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
Alabama	State Program	4	40461	04-30-16
California	State Program	9	2903	04-30-16
Georgia	State Program	4	N/A	04-30-16
Georgia	State Program	4	939	04-30-16
Hawaii	State Program	9	N/A	04-30-16
Illinois	NELAP	5	100201	04-30-16
Indiana	State Program	5	C-IL-02	04-30-16
Iowa	State Program	7	82	05-01-16
Kansas	NELAP	7	E-10161	05-31-16 *
Kentucky (UST)	State Program	4	66	04-30-16
Kentucky (WW)	State Program	4	KY90023	12-31-16
Massachusetts	State Program	1	M-IL035	06-30-16
Mississippi	State Program	4	N/A	04-30-16
New York	NELAP	2	IL00035	04-01-16
North Carolina (WW/SW)	State Program	4	291	12-31-16
North Dakota	State Program	8	R-194	04-30-16
Oklahoma	State Program	6	8908	08-31-16
South Carolina	State Program	4	77001	04-30-16
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-16
Wyoming	State Program	8	8TMS-Q	04-30-16

* Certification renewal pending - certification considered valid.

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	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
SM 4500 P E	Orthophosphate	SM	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70141-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-70141-1	MW-4R	Water	02/02/16 10:35	02/02/16 17:55
720-70141-2	MW-5R	Water	02/02/16 11:30	02/02/16 17:55
720-70141-3	MW-6R	Water	02/02/16 12:20	02/02/16 17:55
720-70141-4	MW-7R	Water	02/02/16 12:55	02/02/16 17:55
720-70141-5	MW-8	Water	02/02/16 15:25	02/02/16 17:55
720-70141-6	MW-9	Water	02/02/16 14:15	02/02/16 17:55
720-70141-7	MW-10	Water	02/02/16 14:50	02/02/16 17:55

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

720-70141

Reference #: 166508

Date 2/2 Page 1 of 2

18/2016

Report To

Attn: Peter Sims
Company: Ninyo + Moore
Address: 1956 Webster St, Oakland, CA
Email: psims@ninyoandmoore.com
Bill To: Same
Sampled By: EKD
Attn: Same
Phone: 510.343.3000

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B +TPHg	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): 200.7 potassium + manganese	W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4 ortho	summa - SM4500D	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Iron	Iron by calc	Number of Containers
MW-4R	2/2	1035	GW		X										X				X			X	X	X	X	8
MW-5R		1130			X										X				X			X	X	X	X	
MW-6R		1200			X										X				X			X	X	X	X	
MW-7R		1255			X										X				X			X	X	X	X	
MW-8		1525			X										X				X			X	X	X	X	
MW-9		1415			X										X				X			X	X	X	X	
MW-10		1450			X										X				X			X	X	X	X	

720-70141 Chain of Custody

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Project Info

Project Name/ #: 401691.004/ Chun
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 2.0°C

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☒ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID T0600100980

See Terms and Conditions on reverse

1) Relinquished by:
Signature: [signature] Time: 1042
Printed Name: Emily Dirksen Date: 2/2/16
Company: ninyo and moore

2) Relinquished by:
Signature: Mathew Rivera Time: 17:55
Printed Name: Mathew Rivera Date: 2/2/16
Company: Vitrack

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

1) Received by:
Signature: Mathew Rivera Time: 16:42
Printed Name: Mathew Rivera Date: 2/2/16
Company: Vitrack

2) Received by:
Signature: [signature] Time: 1755
Printed Name: L. Bullock Date: 2/2/16
Company: TA

3) Received by:
Signature: Time:
Printed Name: Date:
Company:

Rev.10/2012

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: Sharma, Dimple	Carrier Tracking No(s):	COC No: 720-27603.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: dimple.sharma@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 720-70141-1
Address: 2417 Bond Street, ,	Due Date Requested: 2/8/2016			
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email:	WO #:			
Project Name: Chun	Project #: 72010606			
Site:	SSOW#: 720-70141 COC			

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 - Na2S2SO3
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:

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-4R (720-70141-1)	2/2/16	10:35 Pacific		Water			X	1	
MW-5R (720-70141-2)	2/2/16	11:30 Pacific		Water			X	1	
MW-6R (720-70141-3)	2/2/16	12:20 Pacific		Water			X	1	
MW-7R (720-70141-4)	2/2/16	12:55 Pacific		Water			X	1	
MW-8 (720-70141-5)	2/2/16	15:25 Pacific		Water			X	1	
MW-9 (720-70141-6)	2/2/16	14:15 Pacific		Water			X	1	
MW-10 (720-70141-7)	2/2/16	14:50 Pacific		Water			X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	2/3/16 1455	TA		02/04/16 09:40	TAL-PLT
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: 1.1

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-70141-1

Login Number: 70141
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.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-70141-1

Login Number: 70141
List Number: 2
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago
List Creation: 02/04/16 10:47 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1
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

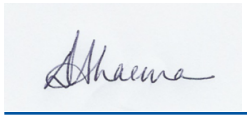
ANALYTICAL REPORT

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

TestAmerica Job ID: 720-70170-1
Client Project/Site: Chun

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

Attn: Mr. Peter D. Sims



Authorized for release by:
2/18/2016 4:34:51 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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)

Job ID: 720-70170-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-70170-1

Comments
No additional comments.

Receipt
The samples were received on 2/3/2016 5:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) and laboratory control duplicate (LCSD) recoveries and precision for Dichlorodifluoromethane and Trichlorofluoromethane for analytical batch 720-197019 were outside control limits. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 720-197031 recovered outside control limits for the following analyte: Dichlorodifluoromethane. Those analyte was biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

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: 720-70170-1

Client Sample ID: MW-11R — Lab Sample ID: 720-70170-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	970		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	900		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	57		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Naphthalene	280		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	150		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Toluene	1600		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	1700		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	430		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	5800		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	25000		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA
Sulfate	5.7		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	2.1		1.0		mg/L	1		300.0	Total/NA
Manganese	1.6		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	1.3		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	2.8	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Ammonia	0.20		0.20		mg/L	1		SM 4500 NH3 G	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 720-70170-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	3.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	130		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
sec-Butylbenzene	1.6		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	2.8		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	9.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	4.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	4.1		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	26		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	9.4		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	2.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	74		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	1100		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Sulfate	7.4		1.0		mg/L	1		300.0	Total/NA
Manganese	1.4		0.020		mg/L	1		200.7 Rev 4.4	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70170-1

Client Sample ID: MW-12 (Continued) — Lab Sample ID: 720-70170-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ferric Iron	0.28		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.92	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 720-70170-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	2.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Nitrite as NO2	4.8		1.0		mg/L	1		300.0	Total/NA
Sulfate	26		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	170		10		mg/L	10		300.0	Total/NA
Manganese	0.66		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	6.1		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	2.0		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	1.3	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Orthophosphate as P	0.040		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-14 — Lab Sample ID: 720-70170-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	930		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	270		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	19		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Naphthalene	110		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	33		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
Toluene	220		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	280		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	44		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	780		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	4600		500		ug/L	10		8260B/CA_LUFT MS	Total/NA
Sulfate	9.3		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	8.1		1.0		mg/L	1		300.0	Total/NA
Manganese	1.3		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	2.1		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	26		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	2.4	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 720-70170-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	5.8		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-15 (Continued) — Lab Sample ID: 720-70170-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Sulfate	60		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	20		10		mg/L	10		300.0	Total/NA
Manganese	0.74		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	4.6		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	42		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.26	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA

Client Sample ID: MW-16 — Lab Sample ID: 720-70170-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.94		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	0.92		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Sulfate	6.9		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	7.3		1.0		mg/L	1		300.0	Total/NA
Manganese	0.33		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	4.9		0.10		mg/L	1		SM 3500	Total/NA
Orthophosphate as P	0.028		0.020		mg/L	1		SM 4500 P E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-11R
Date Collected: 02/03/16 14:10
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-1
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		50		ug/L			02/12/16 21:32	100
Acetone	ND		5000		ug/L			02/12/16 21:32	100
Benzene	**970**		50		ug/L			02/12/16 21:32	100
Dichlorobromomethane	ND		50		ug/L			02/12/16 21:32	100
Bromobenzene	ND		100		ug/L			02/12/16 21:32	100
Chlorobromomethane	ND		100		ug/L			02/12/16 21:32	100
Bromoform	ND		100		ug/L			02/12/16 21:32	100
Bromomethane	ND		100		ug/L			02/12/16 21:32	100
2-Butanone (MEK)	ND		5000		ug/L			02/12/16 21:32	100
n-Butylbenzene	ND		100		ug/L			02/12/16 21:32	100
sec-Butylbenzene	ND		100		ug/L			02/12/16 21:32	100
tert-Butylbenzene	ND		100		ug/L			02/12/16 21:32	100
Carbon disulfide	ND		500		ug/L			02/12/16 21:32	100
Carbon tetrachloride	ND		50		ug/L			02/12/16 21:32	100
Chlorobenzene	ND		50		ug/L			02/12/16 21:32	100
Chloroethane	ND		100		ug/L			02/12/16 21:32	100
Chloroform	ND		100		ug/L			02/12/16 21:32	100
Chloromethane	ND		100		ug/L			02/12/16 21:32	100
2-Chlorotoluene	ND		50		ug/L			02/12/16 21:32	100
4-Chlorotoluene	ND		50		ug/L			02/12/16 21:32	100
Chlorodibromomethane	ND		50		ug/L			02/12/16 21:32	100
1,2-Dichlorobenzene	ND		50		ug/L			02/12/16 21:32	100
1,3-Dichlorobenzene	ND		50		ug/L			02/12/16 21:32	100
1,4-Dichlorobenzene	ND		50		ug/L			02/12/16 21:32	100
1,3-Dichloropropane	ND		100		ug/L			02/12/16 21:32	100
1,1-Dichloropropene	ND		50		ug/L			02/12/16 21:32	100
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			02/12/16 21:32	100
Ethylene Dibromide	ND		50		ug/L			02/12/16 21:32	100
Dibromomethane	ND		50		ug/L			02/12/16 21:32	100
Dichlorodifluoromethane	ND	*	50		ug/L			02/12/16 21:32	100
1,1-Dichloroethane	ND		50		ug/L			02/12/16 21:32	100
1,2-Dichloroethane	ND		50		ug/L			02/12/16 21:32	100
1,1-Dichloroethene	ND		50		ug/L			02/12/16 21:32	100
cis-1,2-Dichloroethene	ND		50		ug/L			02/12/16 21:32	100
trans-1,2-Dichloroethene	ND		50		ug/L			02/12/16 21:32	100
1,2-Dichloropropane	ND		50		ug/L			02/12/16 21:32	100
cis-1,3-Dichloropropene	ND		50		ug/L			02/12/16 21:32	100
trans-1,3-Dichloropropene	ND		50		ug/L			02/12/16 21:32	100
Ethylbenzene	**900**		50		ug/L			02/12/16 21:32	100
Hexachlorobutadiene	ND		100		ug/L			02/12/16 21:32	100
2-Hexanone	ND		5000		ug/L			02/12/16 21:32	100
Isopropylbenzene	**57**		50		ug/L			02/12/16 21:32	100
4-Isopropyltoluene	ND		100		ug/L			02/12/16 21:32	100
Methylene Chloride	ND		500		ug/L			02/12/16 21:32	100
4-Methyl-2-pentanone (MIBK)	ND		5000		ug/L			02/12/16 21:32	100
Naphthalene	**280**		100		ug/L			02/12/16 21:32	100
N-Propylbenzene	**150**		100		ug/L			02/12/16 21:32	100
Styrene	ND		50		ug/L			02/12/16 21:32	100
1,1,1,2-Tetrachloroethane	ND		50		ug/L			02/12/16 21:32	100

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70170-1

Client Sample ID: MW-11R
Date Collected: 02/03/16 14:10
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-1
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		50		ug/L			02/12/16 21:32	100
Tetrachloroethene	ND		50		ug/L			02/12/16 21:32	100
Toluene	**1600**		50		ug/L			02/12/16 21:32	100
1,2,3-Trichlorobenzene	ND		100		ug/L			02/12/16 21:32	100
1,2,4-Trichlorobenzene	ND		100		ug/L			02/12/16 21:32	100
1,1,1-Trichloroethane	ND		50		ug/L			02/12/16 21:32	100
1,1,2-Trichloroethane	ND		50		ug/L			02/12/16 21:32	100
Trichloroethene	ND		50		ug/L			02/12/16 21:32	100
Trichlorofluoromethane	ND	*	100		ug/L			02/12/16 21:32	100
1,2,3-Trichloropropane	ND		50		ug/L			02/12/16 21:32	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50		ug/L			02/12/16 21:32	100
1,2,4-Trimethylbenzene	**1700**		50		ug/L			02/12/16 21:32	100
1,3,5-Trimethylbenzene	**430**		50		ug/L			02/12/16 21:32	100
Vinyl acetate	ND		1000		ug/L			02/12/16 21:32	100
Vinyl chloride	ND		50		ug/L			02/12/16 21:32	100
Xylenes, Total	**5800**		100		ug/L			02/12/16 21:32	100
2,2-Dichloropropane	ND		50		ug/L			02/12/16 21:32	100
Gasoline Range Organics (GRO) -C5-C12	**25000**		5000		ug/L			02/12/16 21:32	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*02/12/16 21:32*	*100*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 130*		*02/12/16 21:32*	*100*
Toluene-d8 (Surr)	*97*		*70 - 130*		*02/12/16 21:32*	*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			02/03/16 20:09	1
Sulfate	**5.7**		1.0		mg/L			02/03/16 20:09	1
Nitrate as NO3	**2.1**		1.0		mg/L			02/03/16 20:09	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.6**		0.020		mg/L		02/04/16 17:58	02/16/16 16:51	1
Potassium	ND		1.0		mg/L		02/04/16 17:58	02/16/16 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**1.3**		0.10		mg/L			02/17/16 16:18	1
Ferrous Iron	**2.8**	**HF**	0.10		mg/L			02/04/16 08:38	1
Ammonia	**0.20**		0.20		mg/L		02/05/16 17:20	02/05/16 21:24	1
Orthophosphate as P	ND		0.020		mg/L			02/04/16 22:22	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70170-1

Client Sample ID: MW-12
Date Collected: 02/03/16 15:05
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-2
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	**3.2**		0.50		ug/L			02/12/16 22:00	1
Acetone	ND		50		ug/L			02/12/16 22:00	1
Benzene	**130**		0.50		ug/L			02/12/16 22:00	1
Dichlorobromomethane	ND		0.50		ug/L			02/12/16 22:00	1
Bromobenzene	ND		1.0		ug/L			02/12/16 22:00	1
Chlorobromomethane	ND		1.0		ug/L			02/12/16 22:00	1
Bromoform	ND		1.0		ug/L			02/12/16 22:00	1
Bromomethane	ND		1.0		ug/L			02/12/16 22:00	1
2-Butanone (MEK)	ND		50		ug/L			02/12/16 22:00	1
n-Butylbenzene	ND		1.0		ug/L			02/12/16 22:00	1
sec-Butylbenzene	**1.6**		1.0		ug/L			02/12/16 22:00	1
tert-Butylbenzene	ND		1.0		ug/L			02/12/16 22:00	1
Carbon disulfide	ND		5.0		ug/L			02/12/16 22:00	1
Carbon tetrachloride	ND		0.50		ug/L			02/12/16 22:00	1
Chlorobenzene	ND		0.50		ug/L			02/12/16 22:00	1
Chloroethane	ND		1.0		ug/L			02/12/16 22:00	1
Chloroform	ND		1.0		ug/L			02/12/16 22:00	1
Chloromethane	ND		1.0		ug/L			02/12/16 22:00	1
2-Chlorotoluene	ND		0.50		ug/L			02/12/16 22:00	1
4-Chlorotoluene	ND		0.50		ug/L			02/12/16 22:00	1
Chlorodibromomethane	ND		0.50		ug/L			02/12/16 22:00	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/12/16 22:00	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/12/16 22:00	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/12/16 22:00	1
1,3-Dichloropropane	ND		1.0		ug/L			02/12/16 22:00	1
1,1-Dichloropropene	ND		0.50		ug/L			02/12/16 22:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/12/16 22:00	1
Ethylene Dibromide	ND		0.50		ug/L			02/12/16 22:00	1
Dibromomethane	ND		0.50		ug/L			02/12/16 22:00	1
Dichlorodifluoromethane	ND	*	0.50		ug/L			02/12/16 22:00	1
1,1-Dichloroethane	ND		0.50		ug/L			02/12/16 22:00	1
1,2-Dichloroethane	**2.8**		0.50		ug/L			02/12/16 22:00	1
1,1-Dichloroethene	ND		0.50		ug/L			02/12/16 22:00	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/12/16 22:00	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/12/16 22:00	1
1,2-Dichloropropane	ND		0.50		ug/L			02/12/16 22:00	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/12/16 22:00	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/12/16 22:00	1
Ethylbenzene	**9.0**		0.50		ug/L			02/12/16 22:00	1
Hexachlorobutadiene	ND		1.0		ug/L			02/12/16 22:00	1
2-Hexanone	ND		50		ug/L			02/12/16 22:00	1
Isopropylbenzene	**4.2**		0.50		ug/L			02/12/16 22:00	1
4-Isopropyltoluene	ND		1.0		ug/L			02/12/16 22:00	1
Methylene Chloride	ND		5.0		ug/L			02/12/16 22:00	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/12/16 22:00	1
Naphthalene	**4.1**		1.0		ug/L			02/12/16 22:00	1
N-Propylbenzene	ND		1.0		ug/L			02/12/16 22:00	1
Styrene	ND		0.50		ug/L			02/12/16 22:00	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/12/16 22:00	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70170-1

Client Sample ID: MW-12
Date Collected: 02/03/16 15:05
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-2
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			02/12/16 22:00	1
Tetrachloroethene	ND		0.50		ug/L			02/12/16 22:00	1
Toluene	**26**		0.50		ug/L			02/12/16 22:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/12/16 22:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/12/16 22:00	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/12/16 22:00	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/12/16 22:00	1
Trichloroethene	ND		0.50		ug/L			02/12/16 22:00	1
Trichlorofluoromethane	ND	*	1.0		ug/L			02/12/16 22:00	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/12/16 22:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/12/16 22:00	1
1,2,4-Trimethylbenzene	**9.4**		0.50		ug/L			02/12/16 22:00	1
1,3,5-Trimethylbenzene	**2.2**		0.50		ug/L			02/12/16 22:00	1
Vinyl acetate	ND		10		ug/L			02/12/16 22:00	1
Vinyl chloride	ND		0.50		ug/L			02/12/16 22:00	1
Xylenes, Total	**74**		1.0		ug/L			02/12/16 22:00	1
2,2-Dichloropropane	ND		0.50		ug/L			02/12/16 22:00	1
Gasoline Range Organics (GRO) -C5-C12	**1100**		50		ug/L			02/12/16 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*02/12/16 22:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*72 - 130*		*02/12/16 22:00*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*02/12/16 22:00*	*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			02/03/16 20:43	1
Sulfate	**7.4**		1.0		mg/L			02/03/16 20:43	1
Nitrate as NO3	ND		1.0		mg/L			02/03/16 20:43	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.4**		0.020		mg/L		02/04/16 17:58	02/16/16 16:56	1
Potassium	ND		1.0		mg/L		02/04/16 17:58	02/16/16 16:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**0.28**		0.10		mg/L			02/17/16 16:18	1
Ferrous Iron	**0.92**	**HF**	0.10		mg/L			02/04/16 08:38	1
Ammonia	ND		0.20		mg/L		02/05/16 17:20	02/05/16 21:27	1
Orthophosphate as P	ND		0.020		mg/L			02/04/16 22:22	1

Client Sample ID: MW-13
Date Collected: 02/03/16 11:35
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-3
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	**4.0**		0.50		ug/L			02/12/16 22:28	1
Acetone	ND		50		ug/L			02/12/16 22:28	1
Benzene	ND		0.50		ug/L			02/12/16 22:28	1
Dichlorobromomethane	ND		0.50		ug/L			02/12/16 22:28	1
Bromobenzene	ND		1.0		ug/L			02/12/16 22:28	1
Chlorobromomethane	ND		1.0		ug/L			02/12/16 22:28	1
Bromoform	ND		1.0		ug/L			02/12/16 22:28	1
Bromomethane	ND		1.0		ug/L			02/12/16 22:28	1
2-Butanone (MEK)	ND		50		ug/L			02/12/16 22:28	1
n-Butylbenzene	ND		1.0		ug/L			02/12/16 22:28	1
sec-Butylbenzene	ND		1.0		ug/L			02/12/16 22:28	1
tert-Butylbenzene	ND		1.0		ug/L			02/12/16 22:28	1
Carbon disulfide	ND		5.0		ug/L			02/12/16 22:28	1
Carbon tetrachloride	ND		0.50		ug/L			02/12/16 22:28	1
Chlorobenzene	ND		0.50		ug/L			02/12/16 22:28	1
Chloroethane	ND		1.0		ug/L			02/12/16 22:28	1
Chloroform	ND		1.0		ug/L			02/12/16 22:28	1
Chloromethane	ND		1.0		ug/L			02/12/16 22:28	1
2-Chlorotoluene	ND		0.50		ug/L			02/12/16 22:28	1
4-Chlorotoluene	ND		0.50		ug/L			02/12/16 22:28	1
Chlorodibromomethane	ND		0.50		ug/L			02/12/16 22:28	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/12/16 22:28	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/12/16 22:28	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/12/16 22:28	1
1,3-Dichloropropane	ND		1.0		ug/L			02/12/16 22:28	1
1,1-Dichloropropene	ND		0.50		ug/L			02/12/16 22:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/12/16 22:28	1
Ethylene Dibromide	ND		0.50		ug/L			02/12/16 22:28	1
Dibromomethane	ND		0.50		ug/L			02/12/16 22:28	1
Dichlorodifluoromethane	ND	*	0.50		ug/L			02/12/16 22:28	1
1,1-Dichloroethane	ND		0.50		ug/L			02/12/16 22:28	1
1,2-Dichloroethane	**2.2**		0.50		ug/L			02/12/16 22:28	1
1,1-Dichloroethene	ND		0.50		ug/L			02/12/16 22:28	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/12/16 22:28	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/12/16 22:28	1
1,2-Dichloropropane	ND		0.50		ug/L			02/12/16 22:28	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/12/16 22:28	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/12/16 22:28	1
Ethylbenzene	ND		0.50		ug/L			02/12/16 22:28	1
Hexachlorobutadiene	ND		1.0		ug/L			02/12/16 22:28	1
2-Hexanone	ND		50		ug/L			02/12/16 22:28	1
Isopropylbenzene	ND		0.50		ug/L			02/12/16 22:28	1
4-Isopropyltoluene	ND		1.0		ug/L			02/12/16 22:28	1
Methylene Chloride	ND		5.0		ug/L			02/12/16 22:28	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/12/16 22:28	1
Naphthalene	ND		1.0		ug/L			02/12/16 22:28	1
N-Propylbenzene	ND		1.0		ug/L			02/12/16 22:28	1
Styrene	ND		0.50		ug/L			02/12/16 22:28	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/12/16 22:28	1

Client Sample ID: MW-13
Date Collected: 02/03/16 11:35
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-3
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			02/12/16 22:28	1
Tetrachloroethene	ND		0.50		ug/L			02/12/16 22:28	1
Toluene	ND		0.50		ug/L			02/12/16 22:28	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/12/16 22:28	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/12/16 22:28	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/12/16 22:28	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/12/16 22:28	1
Trichloroethene	ND		0.50		ug/L			02/12/16 22:28	1
Trichlorofluoromethane	ND	*	1.0		ug/L			02/12/16 22:28	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/12/16 22:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/12/16 22:28	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/12/16 22:28	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/12/16 22:28	1
Vinyl acetate	ND		10		ug/L			02/12/16 22:28	1
Vinyl chloride	ND		0.50		ug/L			02/12/16 22:28	1
Xylenes, Total	ND		1.0		ug/L			02/12/16 22:28	1
2,2-Dichloropropane	ND		0.50		ug/L			02/12/16 22:28	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/12/16 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*02/12/16 22:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*72 - 130*		*02/12/16 22:28*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*02/12/16 22:28*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	**4.8**		1.0		mg/L			02/03/16 21:17	1
Sulfate	**26**		10		mg/L			02/03/16 21:34	10
Nitrate as NO3	**170**		10		mg/L			02/03/16 21:34	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.66**		0.020		mg/L		02/04/16 17:58	02/16/16 17:11	1
Potassium	**6.1**		1.0		mg/L		02/04/16 17:58	02/16/16 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**2.0**		0.10		mg/L			02/17/16 16:18	1
Ferrous Iron	**1.3**	**HF**	0.10		mg/L			02/04/16 08:38	1
Ammonia	ND		0.20		mg/L		02/05/16 17:20	02/05/16 21:30	1
Orthophosphate as P	**0.040**		0.020		mg/L			02/04/16 22:22	1

Client Sample ID: MW-14
Date Collected: 02/03/16 12:05
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-4
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			02/15/16 15:45	10
Acetone	ND		500		ug/L			02/15/16 15:45	10
Benzene	**930**		5.0		ug/L			02/15/16 15:45	10
Dichlorobromomethane	ND		5.0		ug/L			02/15/16 15:45	10
Bromobenzene	ND		10		ug/L			02/15/16 15:45	10
Chlorobromomethane	ND		10		ug/L			02/15/16 15:45	10
Bromoform	ND		10		ug/L			02/15/16 15:45	10
Bromomethane	ND		10		ug/L			02/15/16 15:45	10
2-Butanone (MEK)	ND		500		ug/L			02/15/16 15:45	10
n-Butylbenzene	ND		10		ug/L			02/15/16 15:45	10
sec-Butylbenzene	ND		10		ug/L			02/15/16 15:45	10
tert-Butylbenzene	ND		10		ug/L			02/15/16 15:45	10
Carbon disulfide	ND		50		ug/L			02/15/16 15:45	10
Carbon tetrachloride	ND		5.0		ug/L			02/15/16 15:45	10
Chlorobenzene	ND		5.0		ug/L			02/15/16 15:45	10
Chloroethane	ND		10		ug/L			02/15/16 15:45	10
Chloroform	ND		10		ug/L			02/15/16 15:45	10
Chloromethane	ND		10		ug/L			02/15/16 15:45	10
2-Chlorotoluene	ND		5.0		ug/L			02/15/16 15:45	10
4-Chlorotoluene	ND		5.0		ug/L			02/15/16 15:45	10
Chlorodibromomethane	ND		5.0		ug/L			02/15/16 15:45	10
1,2-Dichlorobenzene	ND		5.0		ug/L			02/15/16 15:45	10
1,3-Dichlorobenzene	ND		5.0		ug/L			02/15/16 15:45	10
1,4-Dichlorobenzene	ND		5.0		ug/L			02/15/16 15:45	10
1,3-Dichloropropane	ND		10		ug/L			02/15/16 15:45	10
1,1-Dichloropropene	ND		5.0		ug/L			02/15/16 15:45	10
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			02/15/16 15:45	10
Ethylene Dibromide	ND		5.0		ug/L			02/15/16 15:45	10
Dibromomethane	ND		5.0		ug/L			02/15/16 15:45	10
Dichlorodifluoromethane	ND	*	5.0		ug/L			02/15/16 15:45	10
1,1-Dichloroethane	ND		5.0		ug/L			02/15/16 15:45	10
1,2-Dichloroethane	ND		5.0		ug/L			02/15/16 15:45	10
1,1-Dichloroethene	ND		5.0		ug/L			02/15/16 15:45	10
cis-1,2-Dichloroethene	ND		5.0		ug/L			02/15/16 15:45	10
trans-1,2-Dichloroethene	ND		5.0		ug/L			02/15/16 15:45	10
1,2-Dichloropropane	ND		5.0		ug/L			02/15/16 15:45	10
cis-1,3-Dichloropropene	ND		5.0		ug/L			02/15/16 15:45	10
trans-1,3-Dichloropropene	ND		5.0		ug/L			02/15/16 15:45	10
Ethylbenzene	**270**		5.0		ug/L			02/15/16 15:45	10
Hexachlorobutadiene	ND		10		ug/L			02/15/16 15:45	10
2-Hexanone	ND		500		ug/L			02/15/16 15:45	10
Isopropylbenzene	**19**		5.0		ug/L			02/15/16 15:45	10
4-Isopropyltoluene	ND		10		ug/L			02/15/16 15:45	10
Methylene Chloride	ND		50		ug/L			02/15/16 15:45	10
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			02/15/16 15:45	10
Naphthalene	**110**		10		ug/L			02/15/16 15:45	10
N-Propylbenzene	**33**		10		ug/L			02/15/16 15:45	10
Styrene	ND		5.0		ug/L			02/15/16 15:45	10
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			02/15/16 15:45	10

Client Sample ID: MW-14
Date Collected: 02/03/16 12:05
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-4
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		5.0		ug/L			02/15/16 15:45	10
Tetrachloroethene	ND		5.0		ug/L			02/15/16 15:45	10
Toluene	**220**		5.0		ug/L			02/15/16 15:45	10
1,2,3-Trichlorobenzene	ND		10		ug/L			02/15/16 15:45	10
1,2,4-Trichlorobenzene	ND		10		ug/L			02/15/16 15:45	10
1,1,1-Trichloroethane	ND		5.0		ug/L			02/15/16 15:45	10
1,1,2-Trichloroethane	ND		5.0		ug/L			02/15/16 15:45	10
Trichloroethene	ND		5.0		ug/L			02/15/16 15:45	10
Trichlorofluoromethane	ND		10		ug/L			02/15/16 15:45	10
1,2,3-Trichloropropane	ND		5.0		ug/L			02/15/16 15:45	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			02/15/16 15:45	10
1,2,4-Trimethylbenzene	**280**		5.0		ug/L			02/15/16 15:45	10
1,3,5-Trimethylbenzene	**44**		5.0		ug/L			02/15/16 15:45	10
Vinyl acetate	ND		100		ug/L			02/15/16 15:45	10
Vinyl chloride	ND		5.0		ug/L			02/15/16 15:45	10
Xylenes, Total	**780**		10		ug/L			02/15/16 15:45	10
2,2-Dichloropropane	ND		5.0		ug/L			02/15/16 15:45	10
Gasoline Range Organics (GRO) -C5-C12	**4600**		500		ug/L			02/15/16 15:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*		*02/15/16 15:45*	*10*
1,2-Dichloroethane-d4 (Surr)	*113*		*72 - 130*		*02/15/16 15:45*	*10*
Toluene-d8 (Surr)	*97*		*70 - 130*		*02/15/16 15:45*	*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			02/03/16 21:51	1
Sulfate	**9.3**		1.0		mg/L			02/03/16 21:51	1
Nitrate as NO3	**8.1**		1.0		mg/L			02/03/16 21:51	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.3**		0.020		mg/L		02/04/16 17:58	02/16/16 17:16	1
Potassium	**2.1**		1.0		mg/L		02/04/16 17:58	02/16/16 17:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**26**		0.10		mg/L			02/17/16 16:18	1
Ferrous Iron	**2.4**	**HF**	0.10		mg/L			02/04/16 08:38	1
Ammonia	ND		0.20		mg/L		02/05/16 17:20	02/05/16 21:32	1
Orthophosphate as P	ND		0.020		mg/L			02/04/16 22:22	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70170-1

Client Sample ID: MW-15
Date Collected: 02/03/16 09:55
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-5
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	**5.8**		0.50		ug/L			02/12/16 23:24	1
Acetone	ND		50		ug/L			02/12/16 23:24	1
Benzene	ND		0.50		ug/L			02/12/16 23:24	1
Dichlorobromomethane	ND		0.50		ug/L			02/12/16 23:24	1
Bromobenzene	ND		1.0		ug/L			02/12/16 23:24	1
Chlorobromomethane	ND		1.0		ug/L			02/12/16 23:24	1
Bromoform	ND		1.0		ug/L			02/12/16 23:24	1
Bromomethane	ND		1.0		ug/L			02/12/16 23:24	1
2-Butanone (MEK)	ND		50		ug/L			02/12/16 23:24	1
n-Butylbenzene	ND		1.0		ug/L			02/12/16 23:24	1
sec-Butylbenzene	ND		1.0		ug/L			02/12/16 23:24	1
tert-Butylbenzene	ND		1.0		ug/L			02/12/16 23:24	1
Carbon disulfide	ND		5.0		ug/L			02/12/16 23:24	1
Carbon tetrachloride	ND		0.50		ug/L			02/12/16 23:24	1
Chlorobenzene	ND		0.50		ug/L			02/12/16 23:24	1
Chloroethane	ND		1.0		ug/L			02/12/16 23:24	1
Chloroform	ND		1.0		ug/L			02/12/16 23:24	1
Chloromethane	ND		1.0		ug/L			02/12/16 23:24	1
2-Chlorotoluene	ND		0.50		ug/L			02/12/16 23:24	1
4-Chlorotoluene	ND		0.50		ug/L			02/12/16 23:24	1
Chlorodibromomethane	ND		0.50		ug/L			02/12/16 23:24	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/12/16 23:24	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/12/16 23:24	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/12/16 23:24	1
1,3-Dichloropropane	ND		1.0		ug/L			02/12/16 23:24	1
1,1-Dichloropropene	ND		0.50		ug/L			02/12/16 23:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/12/16 23:24	1
Ethylene Dibromide	ND		0.50		ug/L			02/12/16 23:24	1
Dibromomethane	ND		0.50		ug/L			02/12/16 23:24	1
Dichlorodifluoromethane	ND	*	0.50		ug/L			02/12/16 23:24	1
1,1-Dichloroethane	ND		0.50		ug/L			02/12/16 23:24	1
1,2-Dichloroethane	**1.2**		0.50		ug/L			02/12/16 23:24	1
1,1-Dichloroethene	ND		0.50		ug/L			02/12/16 23:24	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/12/16 23:24	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/12/16 23:24	1
1,2-Dichloropropane	ND		0.50		ug/L			02/12/16 23:24	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/12/16 23:24	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/12/16 23:24	1
Ethylbenzene	ND		0.50		ug/L			02/12/16 23:24	1
Hexachlorobutadiene	ND		1.0		ug/L			02/12/16 23:24	1
2-Hexanone	ND		50		ug/L			02/12/16 23:24	1
Isopropylbenzene	ND		0.50		ug/L			02/12/16 23:24	1
4-Isopropyltoluene	ND		1.0		ug/L			02/12/16 23:24	1
Methylene Chloride	ND		5.0		ug/L			02/12/16 23:24	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/12/16 23:24	1
Naphthalene	ND		1.0		ug/L			02/12/16 23:24	1
N-Propylbenzene	ND		1.0		ug/L			02/12/16 23:24	1
Styrene	ND		0.50		ug/L			02/12/16 23:24	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/12/16 23:24	1

Client Sample ID: MW-15
Date Collected: 02/03/16 09:55
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/12/16 23:24	1
Tetrachloroethene	ND		0.50		ug/L			02/12/16 23:24	1
Toluene	ND		0.50		ug/L			02/12/16 23:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/12/16 23:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/12/16 23:24	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/12/16 23:24	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/12/16 23:24	1
Trichloroethene	ND		0.50		ug/L			02/12/16 23:24	1
Trichlorofluoromethane	ND	*	1.0		ug/L			02/12/16 23:24	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/12/16 23:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/12/16 23:24	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/12/16 23:24	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/12/16 23:24	1
Vinyl acetate	ND		10		ug/L			02/12/16 23:24	1
Vinyl chloride	ND		0.50		ug/L			02/12/16 23:24	1
Xylenes, Total	ND		1.0		ug/L			02/12/16 23:24	1
2,2-Dichloropropane	ND		0.50		ug/L			02/12/16 23:24	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/12/16 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*02/12/16 23:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*72 - 130*		*02/12/16 23:24*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*02/12/16 23:24*	*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			02/03/16 23:00	1
Sulfate	**60**		10		mg/L			02/03/16 23:21	10
Nitrate as NO3	**20**		10		mg/L			02/03/16 23:21	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.74**		0.020		mg/L		02/04/16 17:58	02/16/16 17:21	1
Potassium	**4.6**		1.0		mg/L		02/04/16 17:58	02/16/16 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**42**		0.10		mg/L			02/17/16 16:18	1
Ferrous Iron	**0.26**	**HF**	0.10		mg/L			02/04/16 08:38	1
Ammonia	ND		0.20		mg/L		02/05/16 17:20	02/05/16 21:41	1
Orthophosphate as P	ND		0.020		mg/L			02/04/16 22:22	1

Client Sample ID: MW-16
Date Collected: 02/03/16 10:40
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-6
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	**0.94**		0.50		ug/L			02/12/16 23:52	1
Acetone	ND		50		ug/L			02/12/16 23:52	1
Benzene	ND		0.50		ug/L			02/12/16 23:52	1
Dichlorobromomethane	ND		0.50		ug/L			02/12/16 23:52	1
Bromobenzene	ND		1.0		ug/L			02/12/16 23:52	1
Chlorobromomethane	ND		1.0		ug/L			02/12/16 23:52	1
Bromoform	ND		1.0		ug/L			02/12/16 23:52	1
Bromomethane	ND		1.0		ug/L			02/12/16 23:52	1
2-Butanone (MEK)	ND		50		ug/L			02/12/16 23:52	1
n-Butylbenzene	ND		1.0		ug/L			02/12/16 23:52	1
sec-Butylbenzene	ND		1.0		ug/L			02/12/16 23:52	1
tert-Butylbenzene	ND		1.0		ug/L			02/12/16 23:52	1
Carbon disulfide	ND		5.0		ug/L			02/12/16 23:52	1
Carbon tetrachloride	ND		0.50		ug/L			02/12/16 23:52	1
Chlorobenzene	ND		0.50		ug/L			02/12/16 23:52	1
Chloroethane	ND		1.0		ug/L			02/12/16 23:52	1
Chloroform	ND		1.0		ug/L			02/12/16 23:52	1
Chloromethane	ND		1.0		ug/L			02/12/16 23:52	1
2-Chlorotoluene	ND		0.50		ug/L			02/12/16 23:52	1
4-Chlorotoluene	ND		0.50		ug/L			02/12/16 23:52	1
Chlorodibromomethane	ND		0.50		ug/L			02/12/16 23:52	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/12/16 23:52	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/12/16 23:52	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/12/16 23:52	1
1,3-Dichloropropane	ND		1.0		ug/L			02/12/16 23:52	1
1,1-Dichloropropene	ND		0.50		ug/L			02/12/16 23:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/12/16 23:52	1
Ethylene Dibromide	ND		0.50		ug/L			02/12/16 23:52	1
Dibromomethane	ND		0.50		ug/L			02/12/16 23:52	1
Dichlorodifluoromethane	ND	*	0.50		ug/L			02/12/16 23:52	1
1,1-Dichloroethane	ND		0.50		ug/L			02/12/16 23:52	1
1,2-Dichloroethane	**0.92**		0.50		ug/L			02/12/16 23:52	1
1,1-Dichloroethene	ND		0.50		ug/L			02/12/16 23:52	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/12/16 23:52	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/12/16 23:52	1
1,2-Dichloropropane	ND		0.50		ug/L			02/12/16 23:52	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/12/16 23:52	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/12/16 23:52	1
Ethylbenzene	ND		0.50		ug/L			02/12/16 23:52	1
Hexachlorobutadiene	ND		1.0		ug/L			02/12/16 23:52	1
2-Hexanone	ND		50		ug/L			02/12/16 23:52	1
Isopropylbenzene	ND		0.50		ug/L			02/12/16 23:52	1
4-Isopropyltoluene	ND		1.0		ug/L			02/12/16 23:52	1
Methylene Chloride	ND		5.0		ug/L			02/12/16 23:52	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/12/16 23:52	1
Naphthalene	ND		1.0		ug/L			02/12/16 23:52	1
N-Propylbenzene	ND		1.0		ug/L			02/12/16 23:52	1
Styrene	ND		0.50		ug/L			02/12/16 23:52	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/12/16 23:52	1

Client Sample ID: MW-16
Date Collected: 02/03/16 10:40
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/12/16 23:52	1
Tetrachloroethene	ND		0.50		ug/L			02/12/16 23:52	1
Toluene	ND		0.50		ug/L			02/12/16 23:52	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/12/16 23:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/12/16 23:52	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/12/16 23:52	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/12/16 23:52	1
Trichloroethene	ND		0.50		ug/L			02/12/16 23:52	1
Trichlorofluoromethane	ND	*	1.0		ug/L			02/12/16 23:52	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/12/16 23:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/12/16 23:52	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/12/16 23:52	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/12/16 23:52	1
Vinyl acetate	ND		10		ug/L			02/12/16 23:52	1
Vinyl chloride	ND		0.50		ug/L			02/12/16 23:52	1
Xylenes, Total	ND		1.0		ug/L			02/12/16 23:52	1
2,2-Dichloropropane	ND		0.50		ug/L			02/12/16 23:52	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/12/16 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*02/12/16 23:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*72 - 130*		*02/12/16 23:52*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*02/12/16 23:52*	*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			02/03/16 23:38	1
Sulfate	**6.9**		1.0		mg/L			02/03/16 23:38	1
Nitrate as NO3	**7.3**		1.0		mg/L			02/03/16 23:38	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.33**		0.020		mg/L		02/04/16 17:58	02/16/16 17:26	1
Potassium	ND		1.0		mg/L		02/04/16 17:58	02/16/16 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**4.9**		0.10		mg/L			02/17/16 16:18	1
Ferrous Iron	ND	HF	0.10		mg/L			02/04/16 08:38	1
Ammonia	ND		0.20		mg/L		02/05/16 17:20	02/05/16 21:44	1
Orthophosphate as P	**0.028**		0.020		mg/L			02/04/16 22:22	1

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70170-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(67-130)	(72-130)	(70-130)
720-70170-1	MW-11R	99	111	97
720-70170-2	MW-12	99	113	100
720-70170-3	MW-13	98	118	98
720-70170-4	MW-14	100	113	97
720-70170-5	MW-15	96	121	96
720-70170-6	MW-16	96	115	97
LCS 720-197019/6	Lab Control Sample	102	110	101
LCS 720-197019/8	Lab Control Sample	102	113	102
LCS 720-197031/6	Lab Control Sample	99	116	100
LCS 720-197031/8	Lab Control Sample	103	111	102
LCSD 720-197019/7	Lab Control Sample Dup	101	112	100
LCSD 720-197019/9	Lab Control Sample Dup	105	113	101
LCSD 720-197031/7	Lab Control Sample Dup	103	112	101
LCSD 720-197031/9	Lab Control Sample Dup	101	110	99
MB 720-197019/5	Method Blank	99	113	99
MB 720-197031/5	Method Blank	99	118	98

Surrogate Legend

BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 720-197019/5
Matrix: Water
Analysis Batch: 197019

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/12/16 14:05	1
Acetone	ND		50		ug/L			02/12/16 14:05	1
Benzene	ND		0.50		ug/L			02/12/16 14:05	1
Dichlorobromomethane	ND		0.50		ug/L			02/12/16 14:05	1
Bromobenzene	ND		1.0		ug/L			02/12/16 14:05	1
Chlorobromomethane	ND		1.0		ug/L			02/12/16 14:05	1
Bromoform	ND		1.0		ug/L			02/12/16 14:05	1
Bromomethane	ND		1.0		ug/L			02/12/16 14:05	1
2-Butanone (MEK)	ND		50		ug/L			02/12/16 14:05	1
n-Butylbenzene	ND		1.0		ug/L			02/12/16 14:05	1
sec-Butylbenzene	ND		1.0		ug/L			02/12/16 14:05	1
tert-Butylbenzene	ND		1.0		ug/L			02/12/16 14:05	1
Carbon disulfide	ND		5.0		ug/L			02/12/16 14:05	1
Carbon tetrachloride	ND		0.50		ug/L			02/12/16 14:05	1
Chlorobenzene	ND		0.50		ug/L			02/12/16 14:05	1
Chloroethane	ND		1.0		ug/L			02/12/16 14:05	1
Chloroform	ND		1.0		ug/L			02/12/16 14:05	1
Chloromethane	ND		1.0		ug/L			02/12/16 14:05	1
2-Chlorotoluene	ND		0.50		ug/L			02/12/16 14:05	1
4-Chlorotoluene	ND		0.50		ug/L			02/12/16 14:05	1
Chlorodibromomethane	ND		0.50		ug/L			02/12/16 14:05	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/12/16 14:05	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/12/16 14:05	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/12/16 14:05	1
1,3-Dichloropropane	ND		1.0		ug/L			02/12/16 14:05	1
1,1-Dichloropropene	ND		0.50		ug/L			02/12/16 14:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/12/16 14:05	1
Ethylene Dibromide	ND		0.50		ug/L			02/12/16 14:05	1
Dibromomethane	ND		0.50		ug/L			02/12/16 14:05	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/12/16 14:05	1
1,1-Dichloroethane	ND		0.50		ug/L			02/12/16 14:05	1
1,2-Dichloroethane	ND		0.50		ug/L			02/12/16 14:05	1
1,1-Dichloroethene	ND		0.50		ug/L			02/12/16 14:05	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/12/16 14:05	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/12/16 14:05	1
1,2-Dichloropropane	ND		0.50		ug/L			02/12/16 14:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/12/16 14:05	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/12/16 14:05	1
Ethylbenzene	ND		0.50		ug/L			02/12/16 14:05	1
Hexachlorobutadiene	ND		1.0		ug/L			02/12/16 14:05	1
2-Hexanone	ND		50		ug/L			02/12/16 14:05	1
Isopropylbenzene	ND		0.50		ug/L			02/12/16 14:05	1
4-Isopropyltoluene	ND		1.0		ug/L			02/12/16 14:05	1
Methylene Chloride	ND		5.0		ug/L			02/12/16 14:05	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/12/16 14:05	1
Naphthalene	ND		1.0		ug/L			02/12/16 14:05	1
N-Propylbenzene	ND		1.0		ug/L			02/12/16 14:05	1
Styrene	ND		0.50		ug/L			02/12/16 14:05	1

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

Lab Sample ID: MB 720-197019/5
Matrix: Water
Analysis Batch: 197019

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/12/16 14:05	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/12/16 14:05	1
Tetrachloroethene	ND		0.50		ug/L			02/12/16 14:05	1
Toluene	ND		0.50		ug/L			02/12/16 14:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/12/16 14:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/12/16 14:05	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/12/16 14:05	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/12/16 14:05	1
Trichloroethene	ND		0.50		ug/L			02/12/16 14:05	1
Trichlorofluoromethane	ND		1.0		ug/L			02/12/16 14:05	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/12/16 14:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/12/16 14:05	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/12/16 14:05	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/12/16 14:05	1
Vinyl acetate	ND		10		ug/L			02/12/16 14:05	1
Vinyl chloride	ND		0.50		ug/L			02/12/16 14:05	1
Xylenes, Total	ND		1.0		ug/L			02/12/16 14:05	1
2,2-Dichloropropane	ND		0.50		ug/L			02/12/16 14:05	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/12/16 14:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*02/12/16 14:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*72 - 130*		*02/12/16 14:05*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*02/12/16 14:05*	*1*

Lab Sample ID: LCS 720-197019/6
Matrix: Water
Analysis Batch: 197019

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	25.4		ug/L		101	62 - 130
Acetone	100	85.6		ug/L		86	26 - 180
Benzene	25.0	22.4		ug/L		90	79 - 130
Dichlorobromomethane	25.0	26.8		ug/L		107	70 - 130
Bromobenzene	25.0	23.6		ug/L		94	70 - 130
Chlorobromomethane	25.0	26.4		ug/L		105	70 - 130
Bromoform	25.0	28.0		ug/L		112	68 - 136
Bromomethane	25.0	31.5		ug/L		126	43 - 151
2-Butanone (MEK)	100	97.3		ug/L		97	54 - 130
n-Butylbenzene	25.0	20.2		ug/L		81	70 - 142
sec-Butylbenzene	25.0	21.6		ug/L		87	70 - 134
tert-Butylbenzene	25.0	22.3		ug/L		89	70 - 135
Carbon disulfide	25.0	21.6		ug/L		86	58 - 130
Carbon tetrachloride	25.0	29.6		ug/L		119	70 - 146
Chlorobenzene	25.0	24.0		ug/L		96	70 - 130
Chloroethane	25.0	26.8		ug/L		107	62 - 138
Chloroform	25.0	25.8		ug/L		103	70 - 130

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

Lab Sample ID: LCS 720-197019/6
Matrix: Water
Analysis Batch: 197019

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	27.7		ug/L		111	52 - 175
2-Chlorotoluene	25.0	22.6		ug/L		90	70 - 130
4-Chlorotoluene	25.0	21.9		ug/L		88	70 - 130
Chlorodibromomethane	25.0	27.5		ug/L		110	70 - 145
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,3-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130
1,3-Dichloropropane	25.0	22.7		ug/L		91	70 - 130
1,1-Dichloropropene	25.0	24.0		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.3		ug/L		89	70 - 136
Ethylene Dibromide	25.0	23.9		ug/L		96	70 - 130
Dibromomethane	25.0	25.0		ug/L		100	70 - 130
Dichlorodifluoromethane	25.0	36.5	*	ug/L		146	34 - 132
1,1-Dichloroethane	25.0	22.5		ug/L		90	70 - 130
1,2-Dichloroethane	25.0	26.9		ug/L		108	61 - 132
1,1-Dichloroethene	25.0	21.5		ug/L		86	64 - 128
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	68 - 130
1,2-Dichloropropane	25.0	21.2		ug/L		85	70 - 130
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	70 - 130
trans-1,3-Dichloropropene	25.0	27.0		ug/L		108	70 - 140
Ethylbenzene	25.0	21.1		ug/L		84	80 - 120
Hexachlorobutadiene	25.0	25.0		ug/L		100	70 - 130
2-Hexanone	100	87.9		ug/L		88	60 - 164
Isopropylbenzene	25.0	22.6		ug/L		90	70 - 130
4-Isopropyltoluene	25.0	21.9		ug/L		87	70 - 130
Methylene Chloride	25.0	24.2		ug/L		97	70 - 147
4-Methyl-2-pentanone (MIBK)	100	89.4		ug/L		89	58 - 130
Naphthalene	25.0	20.5		ug/L		82	70 - 130
N-Propylbenzene	25.0	22.2		ug/L		89	70 - 130
Styrene	25.0	21.5		ug/L		86	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.4		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	25.0	19.4		ug/L		77	70 - 130
Tetrachloroethene	25.0	25.5		ug/L		102	70 - 130
Toluene	25.0	21.1		ug/L		84	78 - 120
1,2,3-Trichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,1,1-Trichloroethane	25.0	27.8		ug/L		111	70 - 130
1,1,2-Trichloroethane	25.0	22.3		ug/L		89	70 - 130
Trichloroethene	25.0	25.9		ug/L		103	70 - 130
Trichlorofluoromethane	25.0	33.5	*	ug/L		134	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	27.1		ug/L		108	42 - 162
1,2,4-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 132
1,3,5-Trimethylbenzene	25.0	21.6		ug/L		86	70 - 130
Vinyl acetate	25.0	20.3		ug/L		81	43 - 163
Vinyl chloride	25.0	29.9		ug/L		120	54 - 135

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

Lab Sample ID: LCS 720-197019/6
Matrix: Water
Analysis Batch: 197019

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	23.8		ug/L		95	70 - 142
o-Xylene	25.0	23.9		ug/L		96	70 - 130
2,2-Dichloropropane	25.0	26.6		ug/L		107	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCS 720-197019/8
Matrix: Water
Analysis Batch: 197019

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	548		ug/L		110	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*113*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 720-197019/7
Matrix: Water
Analysis Batch: 197019

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	26.0		ug/L		104	62 - 130	3	20
Acetone	100	89.1		ug/L		89	26 - 180	4	30
Benzene	25.0	22.6		ug/L		90	79 - 130	1	20
Dichlorobromomethane	25.0	26.8		ug/L		107	70 - 130	0	20
Bromobenzene	25.0	23.6		ug/L		95	70 - 130	0	20
Chlorobromomethane	25.0	26.2		ug/L		105	70 - 130	1	20
Bromoform	25.0	28.8		ug/L		115	68 - 136	3	20
Bromomethane	25.0	31.7		ug/L		127	43 - 151	1	20
2-Butanone (MEK)	100	106		ug/L		106	54 - 130	9	20
n-Butylbenzene	25.0	20.2		ug/L		81	70 - 142	0	20
sec-Butylbenzene	25.0	21.4		ug/L		86	70 - 134	1	20
tert-Butylbenzene	25.0	22.1		ug/L		88	70 - 135	1	20
Carbon disulfide	25.0	21.5		ug/L		86	58 - 130	1	20
Carbon tetrachloride	25.0	29.5		ug/L		118	70 - 146	0	20
Chlorobenzene	25.0	24.3		ug/L		97	70 - 130	1	20
Chloroethane	25.0	26.7		ug/L		107	62 - 138	0	20
Chloroform	25.0	26.2		ug/L		105	70 - 130	1	20
Chloromethane	25.0	27.4		ug/L		110	52 - 175	1	20
2-Chlorotoluene	25.0	22.3		ug/L		89	70 - 130	1	20
4-Chlorotoluene	25.0	21.8		ug/L		87	70 - 130	0	20
Chlorodibromomethane	25.0	27.6		ug/L		111	70 - 145	0	20

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

Lab Sample ID: LCSD 720-197019/7
Matrix: Water
Analysis Batch: 197019

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	23.7		ug/L		95	70 - 130	1	20
1,3-Dichlorobenzene			25.0	23.3		ug/L		93	70 - 130	1	20
1,4-Dichlorobenzene			25.0	23.8		ug/L		95	70 - 130	2	20
1,3-Dichloropropane			25.0	23.0		ug/L		92	70 - 130	1	20
1,1-Dichloropropene			25.0	24.1		ug/L		97	70 - 130	0	20
1,2-Dibromo-3-Chloropropane			25.0	24.0		ug/L		96	70 - 136	7	20
Ethylene Dibromide			25.0	24.4		ug/L		98	70 - 130	2	20
Dibromomethane			25.0	25.5		ug/L		102	70 - 130	2	20
Dichlorodifluoromethane			25.0	36.4	*	ug/L		146	34 - 132	0	20
1,1-Dichloroethane			25.0	22.8		ug/L		91	70 - 130	1	20
1,2-Dichloroethane			25.0	27.2		ug/L		109	61 - 132	1	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		94	70 - 130	1	20
trans-1,2-Dichloroethene			25.0	23.4		ug/L		93	68 - 130	1	20
1,2-Dichloropropane			25.0	21.5		ug/L		86	70 - 130	2	20
cis-1,3-Dichloropropene			25.0	25.5		ug/L		102	70 - 130	2	20
trans-1,3-Dichloropropene			25.0	27.4		ug/L		110	70 - 140	2	20
Ethylbenzene			25.0	21.4		ug/L		86	80 - 120	2	20
Hexachlorobutadiene			25.0	25.0		ug/L		100	70 - 130	0	20
2-Hexanone			100	90.8		ug/L		91	60 - 164	3	20
Isopropylbenzene			25.0	22.6		ug/L		90	70 - 130	0	20
4-Isopropyltoluene			25.0	21.7		ug/L		87	70 - 130	1	20
Methylene Chloride			25.0	24.9		ug/L		99	70 - 147	3	20
4-Methyl-2-pentanone (MIBK)			100	94.6		ug/L		95	58 - 130	6	20
Naphthalene			25.0	21.7		ug/L		87	70 - 130	5	20
N-Propylbenzene			25.0	22.0		ug/L		88	70 - 130	1	20
Styrene			25.0	21.9		ug/L		88	70 - 130	2	20
1,1,1,2-Tetrachloroethane			25.0	25.3		ug/L		101	70 - 130	0	20
1,1,2,2-Tetrachloroethane			25.0	20.2		ug/L		81	70 - 130	4	20
Tetrachloroethene			25.0	24.9		ug/L		100	70 - 130	2	20
Toluene			25.0	21.3		ug/L		85	78 - 120	1	20
1,2,3-Trichlorobenzene			25.0	24.1		ug/L		97	70 - 130	2	20
1,2,4-Trichlorobenzene			25.0	24.6		ug/L		98	70 - 130	0	20
1,1,1-Trichloroethane			25.0	27.6		ug/L		110	70 - 130	1	20
1,1,2-Trichloroethane			25.0	22.4		ug/L		90	70 - 130	0	20
Trichloroethene			25.0	25.9		ug/L		104	70 - 130	0	20
Trichlorofluoromethane			25.0	32.9		ug/L		132	66 - 132	2	20
1,2,3-Trichloropropane			25.0	22.8		ug/L		91	70 - 130	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	26.4		ug/L		106	42 - 162	3	20
1,2,4-Trimethylbenzene			25.0	23.0		ug/L		92	70 - 132	1	20
1,3,5-Trimethylbenzene			25.0	21.4		ug/L		86	70 - 130	1	20
Vinyl acetate			25.0	21.2		ug/L		85	43 - 163	4	20
Vinyl chloride			25.0	30.1		ug/L		120	54 - 135	1	20
m-Xylene & p-Xylene			25.0	23.7		ug/L		95	70 - 142	0	20
o-Xylene			25.0	24.0		ug/L		96	70 - 130	0	20
2,2-Dichloropropane			25.0	24.2		ug/L		97	70 - 140	10	20

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

Lab Sample ID: LCSD 720-197019/7
Matrix: Water
Analysis Batch: 197019

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 720-197019/9
Matrix: Water
Analysis Batch: 197019

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	560		ug/L		112	62 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*113*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 720-197031/5
Matrix: Water
Analysis Batch: 197031

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/15/16 09:14	1
Acetone	ND		50		ug/L			02/15/16 09:14	1
Benzene	ND		0.50		ug/L			02/15/16 09:14	1
Dichlorobromomethane	ND		0.50		ug/L			02/15/16 09:14	1
Bromobenzene	ND		1.0		ug/L			02/15/16 09:14	1
Chlorobromomethane	ND		1.0		ug/L			02/15/16 09:14	1
Bromoform	ND		1.0		ug/L			02/15/16 09:14	1
Bromomethane	ND		1.0		ug/L			02/15/16 09:14	1
2-Butanone (MEK)	ND		50		ug/L			02/15/16 09:14	1
n-Butylbenzene	ND		1.0		ug/L			02/15/16 09:14	1
sec-Butylbenzene	ND		1.0		ug/L			02/15/16 09:14	1
tert-Butylbenzene	ND		1.0		ug/L			02/15/16 09:14	1
Carbon disulfide	ND		5.0		ug/L			02/15/16 09:14	1
Carbon tetrachloride	ND		0.50		ug/L			02/15/16 09:14	1
Chlorobenzene	ND		0.50		ug/L			02/15/16 09:14	1
Chloroethane	ND		1.0		ug/L			02/15/16 09:14	1
Chloroform	ND		1.0		ug/L			02/15/16 09:14	1
Chloromethane	ND		1.0		ug/L			02/15/16 09:14	1
2-Chlorotoluene	ND		0.50		ug/L			02/15/16 09:14	1
4-Chlorotoluene	ND		0.50		ug/L			02/15/16 09:14	1
Chlorodibromomethane	ND		0.50		ug/L			02/15/16 09:14	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/15/16 09:14	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/15/16 09:14	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/15/16 09:14	1
1,3-Dichloropropane	ND		1.0		ug/L			02/15/16 09:14	1
1,1-Dichloropropene	ND		0.50		ug/L			02/15/16 09:14	1

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

Lab Sample ID: MB 720-197031/5
Matrix: Water
Analysis Batch: 197031

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/15/16 09:14	1
Ethylene Dibromide	ND		0.50		ug/L			02/15/16 09:14	1
Dibromomethane	ND		0.50		ug/L			02/15/16 09:14	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/15/16 09:14	1
1,1-Dichloroethane	ND		0.50		ug/L			02/15/16 09:14	1
1,2-Dichloroethane	ND		0.50		ug/L			02/15/16 09:14	1
1,1-Dichloroethene	ND		0.50		ug/L			02/15/16 09:14	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/15/16 09:14	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/15/16 09:14	1
1,2-Dichloropropane	ND		0.50		ug/L			02/15/16 09:14	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/15/16 09:14	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/15/16 09:14	1
Ethylbenzene	ND		0.50		ug/L			02/15/16 09:14	1
Hexachlorobutadiene	ND		1.0		ug/L			02/15/16 09:14	1
2-Hexanone	ND		50		ug/L			02/15/16 09:14	1
Isopropylbenzene	ND		0.50		ug/L			02/15/16 09:14	1
4-Isopropyltoluene	ND		1.0		ug/L			02/15/16 09:14	1
Methylene Chloride	ND		5.0		ug/L			02/15/16 09:14	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/15/16 09:14	1
Naphthalene	ND		1.0		ug/L			02/15/16 09:14	1
N-Propylbenzene	ND		1.0		ug/L			02/15/16 09:14	1
Styrene	ND		0.50		ug/L			02/15/16 09:14	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/15/16 09:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/15/16 09:14	1
Tetrachloroethene	ND		0.50		ug/L			02/15/16 09:14	1
Toluene	ND		0.50		ug/L			02/15/16 09:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/15/16 09:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/15/16 09:14	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/15/16 09:14	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/15/16 09:14	1
Trichloroethene	ND		0.50		ug/L			02/15/16 09:14	1
Trichlorofluoromethane	ND		1.0		ug/L			02/15/16 09:14	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/15/16 09:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/15/16 09:14	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/15/16 09:14	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/15/16 09:14	1
Vinyl acetate	ND		10		ug/L			02/15/16 09:14	1
Vinyl chloride	ND		0.50		ug/L			02/15/16 09:14	1
Xylenes, Total	ND		1.0		ug/L			02/15/16 09:14	1
2,2-Dichloropropane	ND		0.50		ug/L			02/15/16 09:14	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/15/16 09:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*02/15/16 09:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*72 - 130*		*02/15/16 09:14*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*02/15/16 09:14*	*1*

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

Lab Sample ID: LCS 720-197031/6
Matrix: Water
Analysis Batch: 197031

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	25.0		ug/L		100	62 - 130
Acetone	100	86.7		ug/L		87	26 - 180
Benzene	25.0	21.7		ug/L		87	79 - 130
Dichlorobromomethane	25.0	26.0		ug/L		104	70 - 130
Bromobenzene	25.0	22.8		ug/L		91	70 - 130
Chlorobromomethane	25.0	25.8		ug/L		103	70 - 130
Bromoform	25.0	27.7		ug/L		111	68 - 136
Bromomethane	25.0	29.9		ug/L		119	43 - 151
2-Butanone (MEK)	100	102		ug/L		102	54 - 130
n-Butylbenzene	25.0	20.1		ug/L		80	70 - 142
sec-Butylbenzene	25.0	20.7		ug/L		83	70 - 134
tert-Butylbenzene	25.0	21.6		ug/L		86	70 - 135
Carbon disulfide	25.0	20.5		ug/L		82	58 - 130
Carbon tetrachloride	25.0	28.3		ug/L		113	70 - 146
Chlorobenzene	25.0	23.4		ug/L		93	70 - 130
Chloroethane	25.0	24.2		ug/L		97	62 - 138
Chloroform	25.0	25.1		ug/L		100	70 - 130
Chloromethane	25.0	24.9		ug/L		100	52 - 175
2-Chlorotoluene	25.0	21.7		ug/L		87	70 - 130
4-Chlorotoluene	25.0	21.3		ug/L		85	70 - 130
Chlorodibromomethane	25.0	26.6		ug/L		107	70 - 145
1,2-Dichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,3-Dichlorobenzene	25.0	22.8		ug/L		91	70 - 130
1,4-Dichlorobenzene	25.0	23.1		ug/L		92	70 - 130
1,3-Dichloropropane	25.0	21.7		ug/L		87	70 - 130
1,1-Dichloropropene	25.0	23.2		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.8		ug/L		91	70 - 136
Ethylene Dibromide	25.0	23.2		ug/L		93	70 - 130
Dibromomethane	25.0	24.6		ug/L		99	70 - 130
Dichlorodifluoromethane	25.0	33.6	*	ug/L		134	34 - 132
1,1-Dichloroethane	25.0	21.7		ug/L		87	70 - 130
1,2-Dichloroethane	25.0	26.4		ug/L		106	61 - 132
1,1-Dichloroethene	25.0	20.1		ug/L		81	64 - 128
cis-1,2-Dichloroethene	25.0	22.7		ug/L		91	70 - 130
trans-1,2-Dichloroethene	25.0	22.3		ug/L		89	68 - 130
1,2-Dichloropropane	25.0	20.5		ug/L		82	70 - 130
cis-1,3-Dichloropropene	25.0	24.5		ug/L		98	70 - 130
trans-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 140
Ethylbenzene	25.0	20.6		ug/L		82	80 - 120
Hexachlorobutadiene	25.0	25.0		ug/L		100	70 - 130
2-Hexanone	100	87.3		ug/L		87	60 - 164
Isopropylbenzene	25.0	21.7		ug/L		87	70 - 130
4-Isopropyltoluene	25.0	21.4		ug/L		86	70 - 130
Methylene Chloride	25.0	21.6		ug/L		86	70 - 147
4-Methyl-2-pentanone (MIBK)	100	89.2		ug/L		89	58 - 130
Naphthalene	25.0	20.9		ug/L		84	70 - 130
N-Propylbenzene	25.0	21.5		ug/L		86	70 - 130
Styrene	25.0	21.2		ug/L		85	70 - 130

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

Lab Sample ID: LCS 720-197031/6
Matrix: Water
Analysis Batch: 197031

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.6		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	25.0	19.2		ug/L		77	70 - 130
Tetrachloroethene	25.0	24.2		ug/L		97	70 - 130
Toluene	25.0	20.8		ug/L		83	78 - 120
1,2,3-Trichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		99	70 - 130
1,1,1-Trichloroethane	25.0	26.8		ug/L		107	70 - 130
1,1,2-Trichloroethane	25.0	20.9		ug/L		84	70 - 130
Trichloroethene	25.0	25.3		ug/L		101	70 - 130
Trichlorofluoromethane	25.0	31.2		ug/L		125	66 - 132
1,2,3-Trichloropropane	25.0	21.4		ug/L		86	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.4		ug/L		102	42 - 162
1,2,4-Trimethylbenzene	25.0	22.5		ug/L		90	70 - 132
1,3,5-Trimethylbenzene	25.0	21.0		ug/L		84	70 - 130
Vinyl acetate	25.0	20.5		ug/L		82	43 - 163
Vinyl chloride	25.0	27.7		ug/L		111	54 - 135
m-Xylene & p-Xylene	25.0	23.2		ug/L		93	70 - 142
o-Xylene	25.0	23.3		ug/L		93	70 - 130
2,2-Dichloropropane	25.0	24.0		ug/L		96	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*116*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCS 720-197031/8
Matrix: Water
Analysis Batch: 197031

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	529		ug/L		106	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 720-197031/7
Matrix: Water
Analysis Batch: 197031

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	25.0		ug/L		100	62 - 130	0	20
Acetone	100	88.7		ug/L		89	26 - 180	2	30
Benzene	25.0	21.7		ug/L		87	79 - 130	0	20
Dichlorobromomethane	25.0	26.4		ug/L		106	70 - 130	1	20

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

Lab Sample ID: LCSD 720-197031/7
Matrix: Water
Analysis Batch: 197031

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
Bromobenzene	25.0	22.6		ug/L		91	70 - 130	1	20
Chlorobromomethane	25.0	25.7		ug/L		103	70 - 130	1	20
Bromoform	25.0	28.6		ug/L		114	68 - 136	3	20
Bromomethane	25.0	31.4		ug/L		126	43 - 151	5	20
2-Butanone (MEK)	100	104		ug/L		104	54 - 130	2	20
n-Butylbenzene	25.0	20.0		ug/L		80	70 - 142	1	20
sec-Butylbenzene	25.0	20.7		ug/L		83	70 - 134	0	20
tert-Butylbenzene	25.0	21.4		ug/L		86	70 - 135	1	20
Carbon disulfide	25.0	21.1		ug/L		84	58 - 130	3	20
Carbon tetrachloride	25.0	28.8		ug/L		115	70 - 146	2	20
Chlorobenzene	25.0	23.5		ug/L		94	70 - 130	1	20
Chloroethane	25.0	25.8		ug/L		103	62 - 138	6	20
Chloroform	25.0	25.2		ug/L		101	70 - 130	0	20
Chloromethane	25.0	25.5		ug/L		102	52 - 175	2	20
2-Chlorotoluene	25.0	21.6		ug/L		87	70 - 130	0	20
4-Chlorotoluene	25.0	21.0		ug/L		84	70 - 130	2	20
Chlorodibromomethane	25.0	27.5		ug/L		110	70 - 145	3	20
1,2-Dichlorobenzene	25.0	22.6		ug/L		90	70 - 130	0	20
1,3-Dichlorobenzene	25.0	22.6		ug/L		90	70 - 130	1	20
1,4-Dichlorobenzene	25.0	22.9		ug/L		92	70 - 130	1	20
1,3-Dichloropropane	25.0	22.4		ug/L		90	70 - 130	3	20
1,1-Dichloropropene	25.0	23.2		ug/L		93	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	23.6		ug/L		94	70 - 136	3	20
Ethylene Dibromide	25.0	23.3		ug/L		93	70 - 130	0	20
Dibromomethane	25.0	24.4		ug/L		98	70 - 130	1	20
Dichlorodifluoromethane	25.0	35.4	*	ug/L		141	34 - 132	5	20
1,1-Dichloroethane	25.0	21.7		ug/L		87	70 - 130	0	20
1,2-Dichloroethane	25.0	26.4		ug/L		106	61 - 132	0	20
1,1-Dichloroethene	25.0	20.8		ug/L		83	64 - 128	3	20
cis-1,2-Dichloroethene	25.0	22.5		ug/L		90	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	22.4		ug/L		90	68 - 130	1	20
1,2-Dichloropropane	25.0	20.7		ug/L		83	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	26.8		ug/L		107	70 - 140	2	20
Ethylbenzene	25.0	20.7		ug/L		83	80 - 120	1	20
Hexachlorobutadiene	25.0	24.8		ug/L		99	70 - 130	1	20
2-Hexanone	100	89.6		ug/L		90	60 - 164	3	20
Isopropylbenzene	25.0	22.2		ug/L		89	70 - 130	2	20
4-Isopropyltoluene	25.0	21.2		ug/L		85	70 - 130	1	20
Methylene Chloride	25.0	22.2		ug/L		89	70 - 147	3	20
4-Methyl-2-pentanone (MIBK)	100	90.7		ug/L		91	58 - 130	2	20
Naphthalene	25.0	21.6		ug/L		87	70 - 130	3	20
N-Propylbenzene	25.0	21.2		ug/L		85	70 - 130	1	20
Styrene	25.0	21.6		ug/L		86	70 - 130	2	20
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	18.9		ug/L		76	70 - 130	1	20
Tetrachloroethene	25.0	24.6		ug/L		98	70 - 130	2	20
Toluene	25.0	20.8		ug/L		83	78 - 120	0	20

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

Lab Sample ID: LCSD 720-197031/7
Matrix: Water
Analysis Batch: 197031

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
1,2,3-Trichlorobenzene			25.0	24.1		ug/L		96	70 - 130	1	20
1,2,4-Trichlorobenzene			25.0	24.8		ug/L		99	70 - 130	0	20
1,1,1-Trichloroethane			25.0	27.2		ug/L		109	70 - 130	1	20
1,1,2-Trichloroethane			25.0	21.7		ug/L		87	70 - 130	3	20
Trichloroethene			25.0	25.2		ug/L		101	70 - 130	0	20
Trichlorofluoromethane			25.0	32.0		ug/L		128	66 - 132	3	20
1,2,3-Trichloropropane			25.0	21.3		ug/L		85	70 - 130	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	26.7		ug/L		107	42 - 162	5	20
1,2,4-Trimethylbenzene			25.0	22.2		ug/L		89	70 - 132	1	20
1,3,5-Trimethylbenzene			25.0	20.6		ug/L		83	70 - 130	2	20
Vinyl acetate			25.0	20.0		ug/L		80	43 - 163	2	20
Vinyl chloride			25.0	29.3		ug/L		117	54 - 135	6	20
m-Xylene & p-Xylene			25.0	23.3		ug/L		93	70 - 142	0	20
o-Xylene			25.0	23.6		ug/L		94	70 - 130	1	20
2,2-Dichloropropane			25.0	25.2		ug/L		101	70 - 140	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 720-197031/9
Matrix: Water
Analysis Batch: 197031

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	534		ug/L		107	62 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-196790/4
Matrix: Water
Analysis Batch: 196790

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			02/03/16 13:42	1
Nitrate as NO3	ND		1.0		mg/L			02/03/16 13:42	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 720-196790/5
Matrix: Water
Analysis Batch: 196790

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	10.4		mg/L		104	90 - 110
Nitrate as NO3	10.0	10.0		mg/L		100	90 - 110

Lab Sample ID: MB 720-196791/4
Matrix: Water
Analysis Batch: 196791

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0		mg/L			02/03/16 13:42	1

Lab Sample ID: LCS 720-196791/5
Matrix: Water
Analysis Batch: 196791

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.97		mg/L		100	90 - 110

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-196910/1-A
Matrix: Water
Analysis Batch: 197162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196910

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.020		mg/L		02/04/16 17:58	02/16/16 15:10	1
Potassium	ND		1.0		mg/L		02/04/16 17:58	02/16/16 15:10	1

Lab Sample ID: LCS 720-196910/2-A
Matrix: Water
Analysis Batch: 197162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	1.00	0.992		mg/L		99	85 - 115
Potassium	10.0	10.2		mg/L		102	85 - 115

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 720-196849/8
Matrix: Water
Analysis Batch: 196849

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			02/04/16 08:38	1

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

Lab Sample ID: LCS 720-196849/9
Matrix: Water
Analysis Batch: 196849

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: 720-70170-1 MS
Matrix: Water
Analysis Batch: 196849

Client Sample ID: MW-11R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.8	HF	1.00	3.91		mg/L		106	75 - 125

Lab Sample ID: 720-70170-1 MSD
Matrix: Water
Analysis Batch: 196849

Client Sample ID: MW-11R
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	2.8	HF	1.00	4.06		mg/L		122	75 - 125	4	20

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-322118/1-A
Matrix: Water
Analysis Batch: 322123

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322118

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/05/16 17:20	02/05/16 20:33	1

Lab Sample ID: LCS 500-322118/2-A
Matrix: Water
Analysis Batch: 322123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322118

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.50	2.56		mg/L		102	80 - 120

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 720-196915/7
Matrix: Water
Analysis Batch: 196915

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	ND		0.020		mg/L			02/04/16 22:22	1

Lab Sample ID: LCS 720-196915/8
Matrix: Water
Analysis Batch: 196915

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	0.200	0.194		mg/L		97	90 - 110

Method: SM 4500 P E - Orthophosphate (Continued)

Lab Sample ID: 720-70170-1 MS
Matrix: Water
Analysis Batch: 196915

Client Sample ID: MW-11R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	ND		2.00	2.10		mg/L		105	75 - 125

Lab Sample ID: 720-70170-1 MSD
Matrix: Water
Analysis Batch: 196915

Client Sample ID: MW-11R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate as P	ND		2.00	2.14		mg/L		107	75 - 125	2	20

GC/MS VOA

Analysis Batch: 197019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70170-1	MW-11R	Total/NA	Water	8260B/CA_LUFT MS	
720-70170-2	MW-12	Total/NA	Water	8260B/CA_LUFT MS	
720-70170-3	MW-13	Total/NA	Water	8260B/CA_LUFT MS	
720-70170-5	MW-15	Total/NA	Water	8260B/CA_LUFT MS	
720-70170-6	MW-16	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-197019/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-197019/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-197019/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-197019/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-197019/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 197031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70170-4	MW-14	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-197031/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-197031/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-197031/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-197031/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-197031/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

HPLC/IC

Analysis Batch: 196790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70170-1	MW-11R	Total/NA	Water	300.0	
720-70170-2	MW-12	Total/NA	Water	300.0	
720-70170-3	MW-13	Total/NA	Water	300.0	
720-70170-3	MW-13	Total/NA	Water	300.0	
720-70170-4	MW-14	Total/NA	Water	300.0	
720-70170-5	MW-15	Total/NA	Water	300.0	
720-70170-5	MW-15	Total/NA	Water	300.0	
720-70170-6	MW-16	Total/NA	Water	300.0	
LCS 720-196790/5	Lab Control Sample	Total/NA	Water	300.0	
MB 720-196790/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 196791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70170-1	MW-11R	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 196791 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70170-2	MW-12	Total/NA	Water	300.0	
720-70170-3	MW-13	Total/NA	Water	300.0	
720-70170-4	MW-14	Total/NA	Water	300.0	
720-70170-5	MW-15	Total/NA	Water	300.0	
720-70170-6	MW-16	Total/NA	Water	300.0	
LCS 720-196791/5	Lab Control Sample	Total/NA	Water	300.0	
MB 720-196791/4	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 196910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70170-1	MW-11R	Total/NA	Water	200.7	
720-70170-2	MW-12	Total/NA	Water	200.7	
720-70170-3	MW-13	Total/NA	Water	200.7	
720-70170-4	MW-14	Total/NA	Water	200.7	
720-70170-5	MW-15	Total/NA	Water	200.7	
720-70170-6	MW-16	Total/NA	Water	200.7	
LCS 720-196910/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 720-196910/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 197162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70170-1	MW-11R	Total/NA	Water	200.7 Rev 4.4	196910
720-70170-2	MW-12	Total/NA	Water	200.7 Rev 4.4	196910
720-70170-3	MW-13	Total/NA	Water	200.7 Rev 4.4	196910
720-70170-4	MW-14	Total/NA	Water	200.7 Rev 4.4	196910
720-70170-5	MW-15	Total/NA	Water	200.7 Rev 4.4	196910
720-70170-6	MW-16	Total/NA	Water	200.7 Rev 4.4	196910
LCS 720-196910/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	196910
MB 720-196910/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	196910

General Chemistry

Analysis Batch: 196849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70170-1	MW-11R	Total/NA	Water	SM 3500 Fe B	
720-70170-1 MS	MW-11R	Total/NA	Water	SM 3500 Fe B	
720-70170-1 MSD	MW-11R	Total/NA	Water	SM 3500 Fe B	
720-70170-2	MW-12	Total/NA	Water	SM 3500 Fe B	
720-70170-3	MW-13	Total/NA	Water	SM 3500 Fe B	
720-70170-4	MW-14	Total/NA	Water	SM 3500 Fe B	
720-70170-5	MW-15	Total/NA	Water	SM 3500 Fe B	
720-70170-6	MW-16	Total/NA	Water	SM 3500 Fe B	
LCS 720-196849/9	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	
MB 720-196849/8	Method Blank	Total/NA	Water	SM 3500 Fe B	

Analysis Batch: 196915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70170-1	MW-11R	Total/NA	Water	SM 4500 P E	

General Chemistry (Continued)

Analysis Batch: 196915 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70170-1	MW-11R	Total/NA	Water	SM 4500 P E	
720-70170-1 MS	MW-11R	Total/NA	Water	SM 4500 P E	
720-70170-1 MSD	MW-11R	Total/NA	Water	SM 4500 P E	
720-70170-2	MW-12	Total/NA	Water	SM 4500 P E	
720-70170-3	MW-13	Total/NA	Water	SM 4500 P E	
720-70170-4	MW-14	Total/NA	Water	SM 4500 P E	
720-70170-5	MW-15	Total/NA	Water	SM 4500 P E	
720-70170-6	MW-16	Total/NA	Water	SM 4500 P E	
LCS 720-196915/8	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 720-196915/7	Method Blank	Total/NA	Water	SM 4500 P E	

Analysis Batch: 197190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70170-1	MW-11R	Total/NA	Water	SM 3500	
720-70170-2	MW-12	Total/NA	Water	SM 3500	
720-70170-3	MW-13	Total/NA	Water	SM 3500	
720-70170-4	MW-14	Total/NA	Water	SM 3500	
720-70170-5	MW-15	Total/NA	Water	SM 3500	
720-70170-6	MW-16	Total/NA	Water	SM 3500	

Prep Batch: 322118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70170-1	MW-11R	Total/NA	Water	SM 4500 NH3 B	
720-70170-2	MW-12	Total/NA	Water	SM 4500 NH3 B	
720-70170-3	MW-13	Total/NA	Water	SM 4500 NH3 B	
720-70170-4	MW-14	Total/NA	Water	SM 4500 NH3 B	
720-70170-5	MW-15	Total/NA	Water	SM 4500 NH3 B	
720-70170-6	MW-16	Total/NA	Water	SM 4500 NH3 B	
LCS 500-322118/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
MB 500-322118/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 322123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70170-1	MW-11R	Total/NA	Water	SM 4500 NH3 G	322118
720-70170-2	MW-12	Total/NA	Water	SM 4500 NH3 G	322118
720-70170-3	MW-13	Total/NA	Water	SM 4500 NH3 G	322118
720-70170-4	MW-14	Total/NA	Water	SM 4500 NH3 G	322118
720-70170-5	MW-15	Total/NA	Water	SM 4500 NH3 G	322118
720-70170-6	MW-16	Total/NA	Water	SM 4500 NH3 G	322118
LCS 500-322118/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	322118
MB 500-322118/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	322118

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70170-1

Client Sample ID: MW-11R
Date Collected: 02/03/16 14:10
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		100	197019	02/12/16 21:32	YB1	TAL PLS
Total/NA	Analysis	300.0		1	196790	02/03/16 20:09	MJK	TAL PLS
Total/NA	Analysis	300.0		1	196791	02/03/16 20:09	MJK	TAL PLS
Total/NA	Prep	200.7			196910	02/04/16 17:58	ASB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	197162	02/16/16 16:51	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	197190	02/17/16 16:18	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	196849	02/04/16 08:38	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			322118	02/05/16 17:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	322123	02/05/16 21:24	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	196915	02/04/16 22:22	EYT	TAL PLS
Total/NA	Analysis	SM 4500 P E		10	196915	02/04/16 22:22	EYT	TAL PLS

Client Sample ID: MW-12
Date Collected: 02/03/16 15:05
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-2
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	197019	02/12/16 22:00	YB1	TAL PLS
Total/NA	Analysis	300.0		1	196790	02/03/16 20:43	MJK	TAL PLS
Total/NA	Analysis	300.0		1	196791	02/03/16 20:43	MJK	TAL PLS
Total/NA	Prep	200.7			196910	02/04/16 17:58	ASB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	197162	02/16/16 16:56	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	197190	02/17/16 16:18	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	196849	02/04/16 08:38	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			322118	02/05/16 17:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	322123	02/05/16 21:27	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	196915	02/04/16 22:22	EYT	TAL PLS

Client Sample ID: MW-13
Date Collected: 02/03/16 11:35
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-3
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	197019	02/12/16 22:28	YB1	TAL PLS
Total/NA	Analysis	300.0		1	196790	02/03/16 21:17	MJK	TAL PLS
Total/NA	Analysis	300.0		10	196790	02/03/16 21:34	MJK	TAL PLS
Total/NA	Analysis	300.0		10	196791	02/03/16 21:34	MJK	TAL PLS
Total/NA	Prep	200.7			196910	02/04/16 17:58	ASB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	197162	02/16/16 17:11	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	197190	02/17/16 16:18	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	196849	02/04/16 08:38	MJK	TAL PLS

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70170-1

Client Sample ID: MW-13

Date Collected: 02/03/16 11:35
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 NH3 B			322118	02/05/16 17:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	322123	02/05/16 21:30	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	196915	02/04/16 22:22	EYT	TAL PLS

Client Sample ID: MW-14

Date Collected: 02/03/16 12:05
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-4

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	197031	02/15/16 15:45	YB1	TAL PLS
Total/NA	Analysis	300.0		1	196790	02/03/16 21:51	MJK	TAL PLS
Total/NA	Analysis	300.0		1	196791	02/03/16 21:51	MJK	TAL PLS
Total/NA	Prep	200.7			196910	02/04/16 17:58	ASB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	197162	02/16/16 17:16	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	197190	02/17/16 16:18	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	196849	02/04/16 08:38	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			322118	02/05/16 17:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	322123	02/05/16 21:32	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	196915	02/04/16 22:22	EYT	TAL PLS

Client Sample ID: MW-15

Date Collected: 02/03/16 09:55
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-5

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	197019	02/12/16 23:24	YB1	TAL PLS
Total/NA	Analysis	300.0		1	196790	02/03/16 23:00	MJK	TAL PLS
Total/NA	Analysis	300.0		10	196790	02/03/16 23:21	MJK	TAL PLS
Total/NA	Analysis	300.0		10	196791	02/03/16 23:21	MJK	TAL PLS
Total/NA	Prep	200.7			196910	02/04/16 17:58	ASB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	197162	02/16/16 17:21	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	197190	02/17/16 16:18	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	196849	02/04/16 08:38	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			322118	02/05/16 17:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	322123	02/05/16 21:41	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	196915	02/04/16 22:22	EYT	TAL PLS

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70170-1

Client Sample ID: MW-16

Date Collected: 02/03/16 10:40
Date Received: 02/03/16 17:40

Lab Sample ID: 720-70170-6

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	197019	02/12/16 23:52	YB1	TAL PLS
Total/NA	Analysis	300.0		1	196790	02/03/16 23:38	MJK	TAL PLS
Total/NA	Analysis	300.0		1	196791	02/03/16 23:38	MJK	TAL PLS
Total/NA	Prep	200.7			196910	02/04/16 17:58	ASB	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	197162	02/16/16 17:26	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	197190	02/17/16 16:18	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	196849	02/04/16 08:38	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			322118	02/05/16 17:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	322123	02/05/16 21:44	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	196915	02/04/16 22:22	EYT	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: 720-70170-1

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	01-31-17

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
Alabama	State Program	4	40461	04-30-16
California	State Program	9	2903	04-30-16
Georgia	State Program	4	N/A	04-30-16
Georgia	State Program	4	939	04-30-16
Hawaii	State Program	9	N/A	04-30-16
Illinois	NELAP	5	100201	04-30-16
Indiana	State Program	5	C-IL-02	04-30-16
Iowa	State Program	7	82	05-01-16
Kansas	NELAP	7	E-10161	05-31-16 *
Kentucky (UST)	State Program	4	66	04-30-16
Kentucky (WW)	State Program	4	KY90023	12-31-16
Massachusetts	State Program	1	M-IL035	06-30-16
Mississippi	State Program	4	N/A	04-30-16
New York	NELAP	2	IL00035	04-01-16
North Carolina (WW/SW)	State Program	4	291	12-31-16
North Dakota	State Program	8	R-194	04-30-16
Oklahoma	State Program	6	8908	08-31-16
South Carolina	State Program	4	77001	04-30-16
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-16
Wyoming	State Program	8	8TMS-Q	04-30-16

* Certification renewal pending - certification considered valid.

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70170-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	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
SM 4500 P E	Orthophosphate	SM	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70170-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-70170-1	MW-11R	Water	02/03/16 14:10	02/03/16 17:40
720-70170-2	MW-12	Water	02/03/16 15:05	02/03/16 17:40
720-70170-3	MW-13	Water	02/03/16 11:35	02/03/16 17:40
720-70170-4	MW-14	Water	02/03/16 12:05	02/03/16 17:40
720-70170-5	MW-15	Water	02/03/16 09:55	02/03/16 17:40
720-70170-6	MW-16	Water	02/03/16 10:40	02/03/16 17:40

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-70170

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

Reference #: 166536

Date 2/3/15 Page 1 of 1

2/18/2016

Report To

Attn: Peter Sims
Company: Ninyo + Moore
Address: 1956 Webster St, Oakland, CA
Email: psims@ninyoandmoore.com
Bill To: Same
Sampled By: ERD
Attn: Same
Phone: 510.343.3000

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B +TPHg	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): 200.7 potassium + manganese	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☒ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☒ PO4 ortho	ammonia - SM4500	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Iron	Iron by calc	Number of Containers
MW-11R	2/3	1110	GW		X										X					X			X	X	8
MW-12		1508			X										X					X			X	X	8
MW-13		1135			X										X					X			X	X	8
MW-14		1205			X										X					X			X	X	8
MW-15		0955			X										X					X			X	X	8
MW-16		1040			X										X					X			X	X	8

Page 1 of 1

Project Info.

Project Name/ #: 401890004/ Chun
PO#:

Sample Receipt

of Containers:
Head Space:
Temp: 3.2°C

Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☒ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID T0600100980

See Terms and Conditions on reverse

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature			
Time	1625	1740	
Printed Name	Sam Lawler	Sam Banuelos	
Date	2/3/16	2/3/16	
Company	Ninyo and Moore	TA	

	1) Received by:	2) Received by:	3) Received by:
Signature			
Time	1625	1740	
Printed Name	Sam Banuelos	Dennis Arau	
Date	2/3/16	2/3/16	
Company	TA	TA	

720-70170 Chain of Custody

Rev.10/2012

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: Sharma, Dimple	Carrier Tracking No(s):	COC No: 720-27629.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: dimple.sharma@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 720-70170-1
Address: 2417 Bond Street, ,	Due Date Requested: 2/9/2016			Preservation Codes:
City: University Park	TAT Requested (days):			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 - Na2S2SO3 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)
State, Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Chun	Project #: 72010606			
Site:	SSOW#:			

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	720-70170 COC	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-11R (720-70170-1)	2/3/16	14:10 Pacific		Water			X		1	
MW-12 (720-70170-2)	2/3/16	15:05 Pacific		Water			X		1	
MW-13 (720-70170-3)	2/3/16	11:35 Pacific		Water			X		1	
MW-14 (720-70170-4)	2/3/16	12:05 Pacific		Water			X		1	
MW-15 (720-70170-5)	2/3/16	09:55 Pacific		Water			X		1	
MW-16 (720-70170-6)	2/3/16	10:40 Pacific		Water			X		1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		2/4/16 1420			02/05/16 1015	TAL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 1.6

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-70170-1

Login Number: 70170
List Number: 1
Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

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

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-70170-1

Login Number: 70170
List Number: 2
Creator: James, Jeff A

List Source: TestAmerica Chicago
List Creation: 02/08/16 09:17 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	
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.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

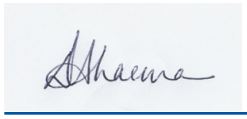
ANALYTICAL REPORT

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

TestAmerica Job ID: 720-70052-1
Client Project/Site: Chun

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

Attn: Mr. Peter D. Sims



Authorized for release by:
2/2/2016 12:52:55 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70052-1

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: 720-70052-1

Job ID: 720-70052-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-70052-1

Comments
No additional comments.

Receipt
The samples were received on 1/28/2016 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9º C.

GC/MS VOA
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: 720-70052-1

Client Sample ID: EFF — Lab Sample ID: 720-70052-1

No Detections.

Client Sample ID: INF — Lab Sample ID: 720-70052-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.63		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	2.6		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	1.0		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Chloroform	1.3		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	2.9		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	3.3		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	4.4		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	20		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	86		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	530		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: GAC — Lab Sample ID: 720-70052-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFF
Date Collected: 01/28/16 09:45
Date Received: 01/28/16 15:30

Lab Sample ID: 720-70052-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/01/16 15:13	1
Acetone	ND		50		ug/L			02/01/16 15:13	1
Benzene	ND		0.50		ug/L			02/01/16 15:13	1
Dichlorobromomethane	ND		0.50		ug/L			02/01/16 15:13	1
Bromobenzene	ND		1.0		ug/L			02/01/16 15:13	1
Chlorobromomethane	ND		1.0		ug/L			02/01/16 15:13	1
Bromoform	ND		1.0		ug/L			02/01/16 15:13	1
Bromomethane	ND		1.0		ug/L			02/01/16 15:13	1
2-Butanone (MEK)	ND		50		ug/L			02/01/16 15:13	1
n-Butylbenzene	ND		1.0		ug/L			02/01/16 15:13	1
sec-Butylbenzene	ND		1.0		ug/L			02/01/16 15:13	1
tert-Butylbenzene	ND		1.0		ug/L			02/01/16 15:13	1
Carbon disulfide	ND		5.0		ug/L			02/01/16 15:13	1
Carbon tetrachloride	ND		0.50		ug/L			02/01/16 15:13	1
Chlorobenzene	ND		0.50		ug/L			02/01/16 15:13	1
Chloroethane	ND		1.0		ug/L			02/01/16 15:13	1
Chloroform	ND		1.0		ug/L			02/01/16 15:13	1
Chloromethane	ND		1.0		ug/L			02/01/16 15:13	1
2-Chlorotoluene	ND		0.50		ug/L			02/01/16 15:13	1
4-Chlorotoluene	ND		0.50		ug/L			02/01/16 15:13	1
Chlorodibromomethane	ND		0.50		ug/L			02/01/16 15:13	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/01/16 15:13	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/01/16 15:13	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/01/16 15:13	1
1,3-Dichloropropane	ND		1.0		ug/L			02/01/16 15:13	1
1,1-Dichloropropene	ND		0.50		ug/L			02/01/16 15:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/01/16 15:13	1
Ethylene Dibromide	ND		0.50		ug/L			02/01/16 15:13	1
Dibromomethane	ND		0.50		ug/L			02/01/16 15:13	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/01/16 15:13	1
1,1-Dichloroethane	ND		0.50		ug/L			02/01/16 15:13	1
1,2-Dichloroethane	ND		0.50		ug/L			02/01/16 15:13	1
1,1-Dichloroethene	ND		0.50		ug/L			02/01/16 15:13	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/01/16 15:13	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/01/16 15:13	1
1,2-Dichloropropane	ND		0.50		ug/L			02/01/16 15:13	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/01/16 15:13	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/01/16 15:13	1
Ethylbenzene	ND		0.50		ug/L			02/01/16 15:13	1
Hexachlorobutadiene	ND		1.0		ug/L			02/01/16 15:13	1
2-Hexanone	ND		50		ug/L			02/01/16 15:13	1
Isopropylbenzene	ND		0.50		ug/L			02/01/16 15:13	1
4-Isopropyltoluene	ND		1.0		ug/L			02/01/16 15:13	1
Methylene Chloride	ND		5.0		ug/L			02/01/16 15:13	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/01/16 15:13	1
Naphthalene	ND		1.0		ug/L			02/01/16 15:13	1
N-Propylbenzene	ND		1.0		ug/L			02/01/16 15:13	1
Styrene	ND		0.50		ug/L			02/01/16 15:13	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/01/16 15:13	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70052-1

Client Sample ID: EFF
Date Collected: 01/28/16 09:45
Date Received: 01/28/16 15:30

Lab Sample ID: 720-70052-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/01/16 15:13	1
Tetrachloroethene	ND		0.50		ug/L			02/01/16 15:13	1
Toluene	ND		0.50		ug/L			02/01/16 15:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/01/16 15:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/01/16 15:13	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/01/16 15:13	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/01/16 15:13	1
Trichloroethene	ND		0.50		ug/L			02/01/16 15:13	1
Trichlorofluoromethane	ND		1.0		ug/L			02/01/16 15:13	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/01/16 15:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/01/16 15:13	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/01/16 15:13	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/01/16 15:13	1
Vinyl acetate	ND		10		ug/L			02/01/16 15:13	1
Vinyl chloride	ND		0.50		ug/L			02/01/16 15:13	1
Xylenes, Total	ND		1.0		ug/L			02/01/16 15:13	1
2,2-Dichloropropane	ND		0.50		ug/L			02/01/16 15:13	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/01/16 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*02/01/16 15:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*72 - 130*		*02/01/16 15:13*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*02/01/16 15:13*	*1*

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70052-1

Client Sample ID: INF
Date Collected: 01/28/16 09:45
Date Received: 01/28/16 15:30

Lab Sample ID: 720-70052-2
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	**0.63**		0.50		ug/L			02/01/16 16:37	1
Acetone	ND		50		ug/L			02/01/16 16:37	1
Benzene	**2.6**		0.50		ug/L			02/01/16 16:37	1
Dichlorobromomethane	ND		0.50		ug/L			02/01/16 16:37	1
Bromobenzene	ND		1.0		ug/L			02/01/16 16:37	1
Chlorobromomethane	ND		1.0		ug/L			02/01/16 16:37	1
Bromoform	ND		1.0		ug/L			02/01/16 16:37	1
Bromomethane	ND		1.0		ug/L			02/01/16 16:37	1
2-Butanone (MEK)	ND		50		ug/L			02/01/16 16:37	1
n-Butylbenzene	**1.0**		1.0		ug/L			02/01/16 16:37	1
sec-Butylbenzene	ND		1.0		ug/L			02/01/16 16:37	1
tert-Butylbenzene	ND		1.0		ug/L			02/01/16 16:37	1
Carbon disulfide	ND		5.0		ug/L			02/01/16 16:37	1
Carbon tetrachloride	ND		0.50		ug/L			02/01/16 16:37	1
Chlorobenzene	ND		0.50		ug/L			02/01/16 16:37	1
Chloroethane	ND		1.0		ug/L			02/01/16 16:37	1
Chloroform	**1.3**		1.0		ug/L			02/01/16 16:37	1
Chloromethane	ND		1.0		ug/L			02/01/16 16:37	1
2-Chlorotoluene	ND		0.50		ug/L			02/01/16 16:37	1
4-Chlorotoluene	ND		0.50		ug/L			02/01/16 16:37	1
Chlorodibromomethane	ND		0.50		ug/L			02/01/16 16:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/01/16 16:37	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/01/16 16:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/01/16 16:37	1
1,3-Dichloropropane	ND		1.0		ug/L			02/01/16 16:37	1
1,1-Dichloropropene	ND		0.50		ug/L			02/01/16 16:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/01/16 16:37	1
Ethylene Dibromide	ND		0.50		ug/L			02/01/16 16:37	1
Dibromomethane	ND		0.50		ug/L			02/01/16 16:37	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/01/16 16:37	1
1,1-Dichloroethane	ND		0.50		ug/L			02/01/16 16:37	1
1,2-Dichloroethane	ND		0.50		ug/L			02/01/16 16:37	1
1,1-Dichloroethene	ND		0.50		ug/L			02/01/16 16:37	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/01/16 16:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/01/16 16:37	1
1,2-Dichloropropane	ND		0.50		ug/L			02/01/16 16:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/01/16 16:37	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/01/16 16:37	1
Ethylbenzene	ND		0.50		ug/L			02/01/16 16:37	1
Hexachlorobutadiene	ND		1.0		ug/L			02/01/16 16:37	1
2-Hexanone	ND		50		ug/L			02/01/16 16:37	1
Isopropylbenzene	ND		0.50		ug/L			02/01/16 16:37	1
4-Isopropyltoluene	ND		1.0		ug/L			02/01/16 16:37	1
Methylene Chloride	ND		5.0		ug/L			02/01/16 16:37	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/01/16 16:37	1
Naphthalene	**2.9**		1.0		ug/L			02/01/16 16:37	1
N-Propylbenzene	ND		1.0		ug/L			02/01/16 16:37	1
Styrene	ND		0.50		ug/L			02/01/16 16:37	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/01/16 16:37	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70052-1

Client Sample ID: INF
Date Collected: 01/28/16 09:45
Date Received: 01/28/16 15:30

Lab Sample ID: 720-70052-2
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			02/01/16 16:37	1
Tetrachloroethene	ND		0.50		ug/L			02/01/16 16:37	1
Toluene	**3.3**		0.50		ug/L			02/01/16 16:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/01/16 16:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/01/16 16:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/01/16 16:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/01/16 16:37	1
Trichloroethene	ND		0.50		ug/L			02/01/16 16:37	1
Trichlorofluoromethane	ND		1.0		ug/L			02/01/16 16:37	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/01/16 16:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/01/16 16:37	1
1,2,4-Trimethylbenzene	**4.4**		0.50		ug/L			02/01/16 16:37	1
1,3,5-Trimethylbenzene	**20**		0.50		ug/L			02/01/16 16:37	1
Vinyl acetate	ND		10		ug/L			02/01/16 16:37	1
Vinyl chloride	ND		0.50		ug/L			02/01/16 16:37	1
Xylenes, Total	**86**		1.0		ug/L			02/01/16 16:37	1
2,2-Dichloropropane	ND		0.50		ug/L			02/01/16 16:37	1
Gasoline Range Organics (GRO) -C5-C12	**530**		50		ug/L			02/01/16 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*		*02/01/16 16:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*72 - 130*		*02/01/16 16:37*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*02/01/16 16:37*	*1*

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70052-1

Client Sample ID: GAC
Date Collected: 01/28/16 09:45
Date Received: 01/28/16 15:30

Lab Sample ID: 720-70052-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/01/16 17:05	1
Acetone	ND		50		ug/L			02/01/16 17:05	1
Benzene	ND		0.50		ug/L			02/01/16 17:05	1
Dichlorobromomethane	ND		0.50		ug/L			02/01/16 17:05	1
Bromobenzene	ND		1.0		ug/L			02/01/16 17:05	1
Chlorobromomethane	ND		1.0		ug/L			02/01/16 17:05	1
Bromoform	ND		1.0		ug/L			02/01/16 17:05	1
Bromomethane	ND		1.0		ug/L			02/01/16 17:05	1
2-Butanone (MEK)	ND		50		ug/L			02/01/16 17:05	1
n-Butylbenzene	ND		1.0		ug/L			02/01/16 17:05	1
sec-Butylbenzene	ND		1.0		ug/L			02/01/16 17:05	1
tert-Butylbenzene	ND		1.0		ug/L			02/01/16 17:05	1
Carbon disulfide	ND		5.0		ug/L			02/01/16 17:05	1
Carbon tetrachloride	ND		0.50		ug/L			02/01/16 17:05	1
Chlorobenzene	ND		0.50		ug/L			02/01/16 17:05	1
Chloroethane	ND		1.0		ug/L			02/01/16 17:05	1
Chloroform	ND		1.0		ug/L			02/01/16 17:05	1
Chloromethane	ND		1.0		ug/L			02/01/16 17:05	1
2-Chlorotoluene	ND		0.50		ug/L			02/01/16 17:05	1
4-Chlorotoluene	ND		0.50		ug/L			02/01/16 17:05	1
Chlorodibromomethane	ND		0.50		ug/L			02/01/16 17:05	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/01/16 17:05	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/01/16 17:05	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/01/16 17:05	1
1,3-Dichloropropane	ND		1.0		ug/L			02/01/16 17:05	1
1,1-Dichloropropene	ND		0.50		ug/L			02/01/16 17:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/01/16 17:05	1
Ethylene Dibromide	ND		0.50		ug/L			02/01/16 17:05	1
Dibromomethane	ND		0.50		ug/L			02/01/16 17:05	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/01/16 17:05	1
1,1-Dichloroethane	ND		0.50		ug/L			02/01/16 17:05	1
1,2-Dichloroethane	ND		0.50		ug/L			02/01/16 17:05	1
1,1-Dichloroethene	ND		0.50		ug/L			02/01/16 17:05	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/01/16 17:05	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/01/16 17:05	1
1,2-Dichloropropane	ND		0.50		ug/L			02/01/16 17:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/01/16 17:05	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/01/16 17:05	1
Ethylbenzene	ND		0.50		ug/L			02/01/16 17:05	1
Hexachlorobutadiene	ND		1.0		ug/L			02/01/16 17:05	1
2-Hexanone	ND		50		ug/L			02/01/16 17:05	1
Isopropylbenzene	ND		0.50		ug/L			02/01/16 17:05	1
4-Isopropyltoluene	ND		1.0		ug/L			02/01/16 17:05	1
Methylene Chloride	ND		5.0		ug/L			02/01/16 17:05	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/01/16 17:05	1
Naphthalene	ND		1.0		ug/L			02/01/16 17:05	1
N-Propylbenzene	ND		1.0		ug/L			02/01/16 17:05	1
Styrene	ND		0.50		ug/L			02/01/16 17:05	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/01/16 17:05	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70052-1

Client Sample ID: GAC
Date Collected: 01/28/16 09:45
Date Received: 01/28/16 15:30

Lab Sample ID: 720-70052-3
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			02/01/16 17:05	1
Tetrachloroethene	ND		0.50		ug/L			02/01/16 17:05	1
Toluene	ND		0.50		ug/L			02/01/16 17:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/01/16 17:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/01/16 17:05	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/01/16 17:05	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/01/16 17:05	1
Trichloroethene	ND		0.50		ug/L			02/01/16 17:05	1
Trichlorofluoromethane	ND		1.0		ug/L			02/01/16 17:05	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/01/16 17:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/01/16 17:05	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/01/16 17:05	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/01/16 17:05	1
Vinyl acetate	ND		10		ug/L			02/01/16 17:05	1
Vinyl chloride	ND		0.50		ug/L			02/01/16 17:05	1
Xylenes, Total	ND		1.0		ug/L			02/01/16 17:05	1
2,2-Dichloropropane	ND		0.50		ug/L			02/01/16 17:05	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/01/16 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*02/01/16 17:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*72 - 130*		*02/01/16 17:05*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*02/01/16 17:05*	*1*

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70052-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(67-130)	(72-130)	(70-130)
720-70052-1	EFF	97	118	95
720-70052-1 MS	EFF	103	119	100
720-70052-1 MSD	EFF	101	114	100
720-70052-2	INF	103	118	100
720-70052-3	GAC	97	117	97
LCS 720-196582/5	Lab Control Sample	98	110	100
LCS 720-196582/8	Lab Control Sample	104	114	101
LCSD 720-196582/6	Lab Control Sample Dup	101	106	99
LCSD 720-196582/9	Lab Control Sample Dup	97	110	100
MB 720-196582/4	Method Blank	98	115	100

Surrogate Legend

BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 720-196582/4
Matrix: Water
Analysis Batch: 196582

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/01/16 09:37	1
Acetone	ND		50		ug/L			02/01/16 09:37	1
Benzene	ND		0.50		ug/L			02/01/16 09:37	1
Dichlorobromomethane	ND		0.50		ug/L			02/01/16 09:37	1
Bromobenzene	ND		1.0		ug/L			02/01/16 09:37	1
Chlorobromomethane	ND		1.0		ug/L			02/01/16 09:37	1
Bromoform	ND		1.0		ug/L			02/01/16 09:37	1
Bromomethane	ND		1.0		ug/L			02/01/16 09:37	1
2-Butanone (MEK)	ND		50		ug/L			02/01/16 09:37	1
n-Butylbenzene	ND		1.0		ug/L			02/01/16 09:37	1
sec-Butylbenzene	ND		1.0		ug/L			02/01/16 09:37	1
tert-Butylbenzene	ND		1.0		ug/L			02/01/16 09:37	1
Carbon disulfide	ND		5.0		ug/L			02/01/16 09:37	1
Carbon tetrachloride	ND		0.50		ug/L			02/01/16 09:37	1
Chlorobenzene	ND		0.50		ug/L			02/01/16 09:37	1
Chloroethane	ND		1.0		ug/L			02/01/16 09:37	1
Chloroform	ND		1.0		ug/L			02/01/16 09:37	1
Chloromethane	ND		1.0		ug/L			02/01/16 09:37	1
2-Chlorotoluene	ND		0.50		ug/L			02/01/16 09:37	1
4-Chlorotoluene	ND		0.50		ug/L			02/01/16 09:37	1
Chlorodibromomethane	ND		0.50		ug/L			02/01/16 09:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/01/16 09:37	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/01/16 09:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/01/16 09:37	1
1,3-Dichloropropane	ND		1.0		ug/L			02/01/16 09:37	1
1,1-Dichloropropene	ND		0.50		ug/L			02/01/16 09:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/01/16 09:37	1
Ethylene Dibromide	ND		0.50		ug/L			02/01/16 09:37	1
Dibromomethane	ND		0.50		ug/L			02/01/16 09:37	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/01/16 09:37	1
1,1-Dichloroethane	ND		0.50		ug/L			02/01/16 09:37	1
1,2-Dichloroethane	ND		0.50		ug/L			02/01/16 09:37	1
1,1-Dichloroethene	ND		0.50		ug/L			02/01/16 09:37	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/01/16 09:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/01/16 09:37	1
1,2-Dichloropropane	ND		0.50		ug/L			02/01/16 09:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/01/16 09:37	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/01/16 09:37	1
Ethylbenzene	ND		0.50		ug/L			02/01/16 09:37	1
Hexachlorobutadiene	ND		1.0		ug/L			02/01/16 09:37	1
2-Hexanone	ND		50		ug/L			02/01/16 09:37	1
Isopropylbenzene	ND		0.50		ug/L			02/01/16 09:37	1
4-Isopropyltoluene	ND		1.0		ug/L			02/01/16 09:37	1
Methylene Chloride	ND		5.0		ug/L			02/01/16 09:37	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/01/16 09:37	1
Naphthalene	ND		1.0		ug/L			02/01/16 09:37	1
N-Propylbenzene	ND		1.0		ug/L			02/01/16 09:37	1
Styrene	ND		0.50		ug/L			02/01/16 09:37	1

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

Lab Sample ID: MB 720-196582/4
Matrix: Water
Analysis Batch: 196582

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/01/16 09:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/01/16 09:37	1
Tetrachloroethene	ND		0.50		ug/L			02/01/16 09:37	1
Toluene	ND		0.50		ug/L			02/01/16 09:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/01/16 09:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/01/16 09:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/01/16 09:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/01/16 09:37	1
Trichloroethene	ND		0.50		ug/L			02/01/16 09:37	1
Trichlorofluoromethane	ND		1.0		ug/L			02/01/16 09:37	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/01/16 09:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/01/16 09:37	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/01/16 09:37	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/01/16 09:37	1
Vinyl acetate	ND		10		ug/L			02/01/16 09:37	1
Vinyl chloride	ND		0.50		ug/L			02/01/16 09:37	1
Xylenes, Total	ND		1.0		ug/L			02/01/16 09:37	1
2,2-Dichloropropane	ND		0.50		ug/L			02/01/16 09:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/01/16 09:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*02/01/16 09:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*72 - 130*		*02/01/16 09:37*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*02/01/16 09:37*	*1*

Lab Sample ID: LCS 720-196582/5
Matrix: Water
Analysis Batch: 196582

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	23.5		ug/L		94	62 - 130
Acetone	100	81.1		ug/L		81	26 - 180
Benzene	25.0	20.6		ug/L		82	79 - 130
Dichlorobromomethane	25.0	25.2		ug/L		101	70 - 130
Bromobenzene	25.0	23.2		ug/L		93	70 - 130
Chlorobromomethane	25.0	24.6		ug/L		98	70 - 130
Bromoform	25.0	25.7		ug/L		103	68 - 136
Bromomethane	25.0	26.9		ug/L		108	43 - 151
2-Butanone (MEK)	100	88.5		ug/L		89	54 - 130
n-Butylbenzene	25.0	18.6		ug/L		75	70 - 142
sec-Butylbenzene	25.0	20.5		ug/L		82	70 - 134
tert-Butylbenzene	25.0	21.5		ug/L		86	70 - 135
Carbon disulfide	25.0	18.9		ug/L		75	58 - 130
Carbon tetrachloride	25.0	27.4		ug/L		110	70 - 146
Chlorobenzene	25.0	22.7		ug/L		91	70 - 130
Chloroethane	25.0	23.9		ug/L		96	62 - 138
Chloroform	25.0	24.1		ug/L		96	70 - 130

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

Lab Sample ID: LCS 720-196582/5
Matrix: Water
Analysis Batch: 196582

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	20.0		ug/L		80	52 - 175
2-Chlorotoluene	25.0	22.0		ug/L		88	70 - 130
4-Chlorotoluene	25.0	21.3		ug/L		85	70 - 130
Chlorodibromomethane	25.0	26.0		ug/L		104	70 - 145
1,2-Dichlorobenzene	25.0	22.0		ug/L		88	70 - 130
1,3-Dichlorobenzene	25.0	22.4		ug/L		90	70 - 130
1,4-Dichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,3-Dichloropropane	25.0	21.1		ug/L		85	70 - 130
1,1-Dichloropropene	25.0	22.3		ug/L		89	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	20.9		ug/L		84	70 - 136
Ethylene Dibromide	25.0	22.4		ug/L		90	70 - 130
Dibromomethane	25.0	23.0		ug/L		92	70 - 130
Dichlorodifluoromethane	25.0	25.5		ug/L		102	34 - 132
1,1-Dichloroethane	25.0	21.0		ug/L		84	70 - 130
1,2-Dichloroethane	25.0	25.3		ug/L		101	61 - 132
1,1-Dichloroethene	25.0	19.3		ug/L		77	64 - 128
cis-1,2-Dichloroethene	25.0	21.7		ug/L		87	70 - 130
trans-1,2-Dichloroethene	25.0	21.7		ug/L		87	68 - 130
1,2-Dichloropropane	25.0	19.6		ug/L		78	70 - 130
cis-1,3-Dichloropropene	25.0	23.5		ug/L		94	70 - 130
trans-1,3-Dichloropropene	25.0	25.1		ug/L		100	70 - 140
Ethylbenzene	25.0	19.9		ug/L		80	80 - 120
Hexachlorobutadiene	25.0	24.2		ug/L		97	70 - 130
2-Hexanone	100	78.5		ug/L		79	60 - 164
Isopropylbenzene	25.0	21.2		ug/L		85	70 - 130
4-Isopropyltoluene	25.0	20.6		ug/L		82	70 - 130
Methylene Chloride	25.0	21.1		ug/L		84	70 - 147
4-Methyl-2-pentanone (MIBK)	100	80.7		ug/L		81	58 - 130
Naphthalene	25.0	18.5		ug/L		74	70 - 130
N-Propylbenzene	25.0	21.4		ug/L		86	70 - 130
Styrene	25.0	20.4		ug/L		81	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	25.0	17.9		ug/L		72	70 - 130
Tetrachloroethene	25.0	23.6		ug/L		95	70 - 130
Toluene	25.0	20.1		ug/L		81	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	26.1		ug/L		104	70 - 130
1,1,2-Trichloroethane	25.0	20.0		ug/L		80	70 - 130
Trichloroethene	25.0	24.3		ug/L		97	70 - 130
Trichlorofluoromethane	25.0	29.8		ug/L		119	66 - 132
1,2,3-Trichloropropane	25.0	21.4		ug/L		86	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.0		ug/L		96	42 - 162
1,2,4-Trimethylbenzene	25.0	21.9		ug/L		88	70 - 132
1,3,5-Trimethylbenzene	25.0	21.0		ug/L		84	70 - 130
Vinyl acetate	25.0	18.9		ug/L		75	43 - 163
Vinyl chloride	25.0	23.6		ug/L		94	54 - 135

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

Lab Sample ID: LCS 720-196582/5
Matrix: Water
Analysis Batch: 196582

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	22.4		ug/L		89	70 - 142
o-Xylene	25.0	22.6		ug/L		90	70 - 130
2,2-Dichloropropane	25.0	26.1		ug/L		104	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCS 720-196582/8
Matrix: Water
Analysis Batch: 196582

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	523		ug/L		105	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*114*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 720-196582/6
Matrix: Water
Analysis Batch: 196582

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	22.5		ug/L		90	62 - 130	4	20
Acetone	100	76.7		ug/L		77	26 - 180	6	30
Benzene	25.0	20.5		ug/L		82	79 - 130	0	20
Dichlorobromomethane	25.0	24.6		ug/L		98	70 - 130	2	20
Bromobenzene	25.0	22.5		ug/L		90	70 - 130	3	20
Chlorobromomethane	25.0	24.3		ug/L		97	70 - 130	1	20
Bromoform	25.0	26.1		ug/L		104	68 - 136	2	20
Bromomethane	25.0	29.1		ug/L		116	43 - 151	8	20
2-Butanone (MEK)	100	88.1		ug/L		88	54 - 130	0	20
n-Butylbenzene	25.0	19.1		ug/L		76	70 - 142	2	20
sec-Butylbenzene	25.0	20.6		ug/L		83	70 - 134	1	20
tert-Butylbenzene	25.0	21.4		ug/L		86	70 - 135	0	20
Carbon disulfide	25.0	19.2		ug/L		77	58 - 130	2	20
Carbon tetrachloride	25.0	27.2		ug/L		109	70 - 146	1	20
Chlorobenzene	25.0	23.0		ug/L		92	70 - 130	1	20
Chloroethane	25.0	23.5		ug/L		94	62 - 138	2	20
Chloroform	25.0	24.0		ug/L		96	70 - 130	0	20
Chloromethane	25.0	21.6		ug/L		86	52 - 175	7	20
2-Chlorotoluene	25.0	21.5		ug/L		86	70 - 130	2	20
4-Chlorotoluene	25.0	20.8		ug/L		83	70 - 130	2	20
Chlorodibromomethane	25.0	25.1		ug/L		101	70 - 145	3	20

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

Lab Sample ID: LCSD 720-196582/6
Matrix: Water
Analysis Batch: 196582

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	22.1		ug/L		88	70 - 130	0	20
1,3-Dichlorobenzene			25.0	22.2		ug/L		89	70 - 130	1	20
1,4-Dichlorobenzene			25.0	22.4		ug/L		90	70 - 130	1	20
1,3-Dichloropropane			25.0	20.6		ug/L		82	70 - 130	3	20
1,1-Dichloropropene			25.0	22.2		ug/L		89	70 - 130	1	20
1,2-Dibromo-3-Chloropropane			25.0	20.2		ug/L		81	70 - 136	4	20
Ethylene Dibromide			25.0	21.6		ug/L		86	70 - 130	4	20
Dibromomethane			25.0	22.6		ug/L		90	70 - 130	2	20
Dichlorodifluoromethane			25.0	27.1		ug/L		108	34 - 132	6	20
1,1-Dichloroethane			25.0	20.7		ug/L		83	70 - 130	1	20
1,2-Dichloroethane			25.0	24.6		ug/L		98	61 - 132	3	20
1,1-Dichloroethene			25.0	19.7		ug/L		79	64 - 128	2	20
cis-1,2-Dichloroethene			25.0	21.6		ug/L		86	70 - 130	1	20
trans-1,2-Dichloroethene			25.0	21.6		ug/L		87	68 - 130	0	20
1,2-Dichloropropane			25.0	19.5		ug/L		78	70 - 130	1	20
cis-1,3-Dichloropropene			25.0	23.0		ug/L		92	70 - 130	2	20
trans-1,3-Dichloropropene			25.0	24.2		ug/L		97	70 - 140	3	20
Ethylbenzene			25.0	20.1		ug/L		80	80 - 120	1	20
Hexachlorobutadiene			25.0	24.4		ug/L		98	70 - 130	1	20
2-Hexanone			100	75.1		ug/L		75	60 - 164	4	20
Isopropylbenzene			25.0	21.7		ug/L		87	70 - 130	3	20
4-Isopropyltoluene			25.0	20.6		ug/L		82	70 - 130	0	20
Methylene Chloride			25.0	20.9		ug/L		83	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)			100	77.2		ug/L		77	58 - 130	4	20
Naphthalene			25.0	18.5		ug/L		74	70 - 130	0	20
N-Propylbenzene			25.0	21.0		ug/L		84	70 - 130	2	20
Styrene			25.0	20.8		ug/L		83	70 - 130	2	20
1,1,1,2-Tetrachloroethane			25.0	24.2		ug/L		97	70 - 130	2	20
1,1,2,2-Tetrachloroethane			25.0	17.6		ug/L		71	70 - 130	2	20
Tetrachloroethene			25.0	23.3		ug/L		93	70 - 130	2	20
Toluene			25.0	20.2		ug/L		81	78 - 120	0	20
1,2,3-Trichlorobenzene			25.0	22.0		ug/L		88	70 - 130	0	20
1,2,4-Trichlorobenzene			25.0	22.9		ug/L		92	70 - 130	0	20
1,1,1-Trichloroethane			25.0	25.9		ug/L		103	70 - 130	1	20
1,1,2-Trichloroethane			25.0	20.0		ug/L		80	70 - 130	0	20
Trichloroethene			25.0	24.2		ug/L		97	70 - 130	0	20
Trichlorofluoromethane			25.0	30.4		ug/L		122	66 - 132	2	20
1,2,3-Trichloropropane			25.0	20.2		ug/L		81	70 - 130	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	25.4		ug/L		102	42 - 162	6	20
1,2,4-Trimethylbenzene			25.0	21.9		ug/L		88	70 - 132	0	20
1,3,5-Trimethylbenzene			25.0	20.6		ug/L		82	70 - 130	2	20
Vinyl acetate			25.0	18.3		ug/L		73	43 - 163	3	20
Vinyl chloride			25.0	25.4		ug/L		101	54 - 135	7	20
m-Xylene & p-Xylene			25.0	22.5		ug/L		90	70 - 142	1	20
o-Xylene			25.0	23.1		ug/L		92	70 - 130	2	20
2,2-Dichloropropane			25.0	24.0		ug/L		96	70 - 140	8	20

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

Lab Sample ID: LCSD 720-196582/6
Matrix: Water
Analysis Batch: 196582

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 720-196582/9
Matrix: Water
Analysis Batch: 196582

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	493		ug/L		99	62 - 120	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 720-70052-1 MS
Matrix: Water
Analysis Batch: 196582

Client Sample ID: EFF
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	23.9		ug/L		95	60 - 138
Acetone	ND		100	73.2		ug/L		73	60 - 140
Benzene	ND		25.0	20.4		ug/L		82	60 - 140
Dichlorobromomethane	ND		25.0	25.5		ug/L		102	60 - 140
Bromobenzene	ND		25.0	23.5		ug/L		94	60 - 140
Chlorobromomethane	ND		25.0	24.9		ug/L		99	60 - 140
Bromoform	ND		25.0	27.5		ug/L		110	56 - 140
Bromomethane	ND		25.0	27.2		ug/L		109	23 - 140
2-Butanone (MEK)	ND		100	93.2		ug/L		93	60 - 140
n-Butylbenzene	ND		25.0	18.5		ug/L		74	60 - 140
sec-Butylbenzene	ND		25.0	20.4		ug/L		82	60 - 140
tert-Butylbenzene	ND		25.0	21.7		ug/L		87	60 - 140
Carbon disulfide	ND		25.0	18.9		ug/L		76	38 - 140
Carbon tetrachloride	ND		25.0	28.0		ug/L		112	60 - 140
Chlorobenzene	ND		25.0	22.6		ug/L		90	60 - 140
Chloroethane	ND		25.0	23.5		ug/L		94	51 - 140
Chloroform	ND		25.0	24.0		ug/L		96	60 - 140
Chloromethane	ND		25.0	20.1		ug/L		80	52 - 140
2-Chlorotoluene	ND		25.0	22.0		ug/L		88	60 - 140
4-Chlorotoluene	ND		25.0	21.4		ug/L		85	60 - 140
Chlorodibromomethane	ND		25.0	26.4		ug/L		106	60 - 140
1,2-Dichlorobenzene	ND		25.0	22.1		ug/L		88	60 - 140
1,3-Dichlorobenzene	ND		25.0	22.4		ug/L		89	60 - 140
1,4-Dichlorobenzene	ND		25.0	22.3		ug/L		89	60 - 140
1,3-Dichloropropane	ND		25.0	21.0		ug/L		84	60 - 140
1,1-Dichloropropene	ND		25.0	22.3		ug/L		89	60 - 140

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

Lab Sample ID: 720-70052-1 MS
Matrix: Water
Analysis Batch: 196582

Client Sample ID: EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		25.0	21.6		ug/L		87	60 - 140
Ethylene Dibromide	ND		25.0	23.1		ug/L		92	60 - 140
Dibromomethane	ND		25.0	23.6		ug/L		94	60 - 140
Dichlorodifluoromethane	ND		25.0	25.3		ug/L		101	38 - 140
1,1-Dichloroethane	ND		25.0	20.6		ug/L		83	60 - 140
1,2-Dichloroethane	ND		25.0	25.9		ug/L		104	60 - 140
1,1-Dichloroethene	ND		25.0	18.7		ug/L		75	60 - 140
cis-1,2-Dichloroethene	ND		25.0	22.2		ug/L		89	60 - 140
trans-1,2-Dichloroethene	ND		25.0	21.6		ug/L		86	60 - 140
1,2-Dichloropropane	ND		25.0	19.6		ug/L		78	60 - 140
cis-1,3-Dichloropropene	ND		25.0	23.3		ug/L		93	60 - 140
trans-1,3-Dichloropropene	ND		25.0	25.2		ug/L		101	60 - 140
Ethylbenzene	ND		25.0	19.9		ug/L		80	60 - 140
Hexachlorobutadiene	ND		25.0	23.5		ug/L		94	60 - 140
2-Hexanone	ND		100	81.7		ug/L		82	60 - 140
Isopropylbenzene	ND		25.0	21.3		ug/L		85	60 - 140
4-Isopropyltoluene	ND		25.0	20.5		ug/L		82	60 - 140
Methylene Chloride	ND		25.0	21.5		ug/L		86	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		100	86.2		ug/L		86	58 - 130
Naphthalene	ND		25.0	18.8		ug/L		75	56 - 140
N-Propylbenzene	ND		25.0	21.3		ug/L		85	60 - 140
Styrene	ND		25.0	20.1		ug/L		80	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	24.4		ug/L		98	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	18.9		ug/L		76	60 - 140
Tetrachloroethene	ND		25.0	23.5		ug/L		94	60 - 140
Toluene	ND		25.0	20.0		ug/L		80	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	21.3		ug/L		85	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	21.8		ug/L		87	60 - 140
1,1,1-Trichloroethane	ND		25.0	27.7		ug/L		111	60 - 140
1,1,2-Trichloroethane	ND		25.0	20.9		ug/L		84	60 - 140
Trichloroethene	ND		25.0	24.2		ug/L		97	60 - 140
Trichlorofluoromethane	ND		25.0	30.9		ug/L		123	60 - 140
1,2,3-Trichloropropane	ND		25.0	21.9		ug/L		88	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	24.3		ug/L		97	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	21.9		ug/L		88	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	20.8		ug/L		83	60 - 140
Vinyl acetate	ND		25.0	19.5		ug/L		78	40 - 140
Vinyl chloride	ND		25.0	24.0		ug/L		96	58 - 140
m-Xylene & p-Xylene	ND		25.0	22.2		ug/L		89	60 - 140
o-Xylene	ND		25.0	22.7		ug/L		91	60 - 140
2,2-Dichloropropane	ND		25.0	26.5		ug/L		106	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*119*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

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

Lab Sample ID: 720-70052-1 MSD
Matrix: Water
Analysis Batch: 196582

Client Sample ID: EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	23.7		ug/L		95	60 - 138	1	20
Acetone	ND		100	70.4		ug/L		70	60 - 140	4	20
Benzene	ND		25.0	20.6		ug/L		82	60 - 140	1	20
Dichlorobromomethane	ND		25.0	25.1		ug/L		100	60 - 140	1	20
Bromobenzene	ND		25.0	23.5		ug/L		94	60 - 140	0	20
Chlorobromomethane	ND		25.0	24.5		ug/L		98	60 - 140	1	20
Bromoform	ND		25.0	27.7		ug/L		111	56 - 140	1	20
Bromomethane	ND		25.0	27.4		ug/L		110	23 - 140	1	20
2-Butanone (MEK)	ND		100	91.8		ug/L		92	60 - 140	2	20
n-Butylbenzene	ND		25.0	18.5		ug/L		74	60 - 140	0	20
sec-Butylbenzene	ND		25.0	20.5		ug/L		82	60 - 140	1	20
tert-Butylbenzene	ND		25.0	22.0		ug/L		88	60 - 140	1	20
Carbon disulfide	ND		25.0	19.0		ug/L		76	38 - 140	1	20
Carbon tetrachloride	ND		25.0	27.7		ug/L		111	60 - 140	1	20
Chlorobenzene	ND		25.0	22.8		ug/L		91	60 - 140	1	20
Chloroethane	ND		25.0	23.4		ug/L		94	51 - 140	1	20
Chloroform	ND		25.0	24.2		ug/L		97	60 - 140	1	20
Chloromethane	ND		25.0	21.0		ug/L		84	52 - 140	4	20
2-Chlorotoluene	ND		25.0	22.0		ug/L		88	60 - 140	0	20
4-Chlorotoluene	ND		25.0	21.3		ug/L		85	60 - 140	0	20
Chlorodibromomethane	ND		25.0	26.5		ug/L		106	60 - 140	0	20
1,2-Dichlorobenzene	ND		25.0	22.0		ug/L		88	60 - 140	0	20
1,3-Dichlorobenzene	ND		25.0	22.3		ug/L		89	60 - 140	0	20
1,4-Dichlorobenzene	ND		25.0	22.4		ug/L		90	60 - 140	1	20
1,3-Dichloropropane	ND		25.0	20.9		ug/L		83	60 - 140	1	20
1,1-Dichloropropene	ND		25.0	22.2		ug/L		89	60 - 140	0	20
1,2-Dibromo-3-Chloropropane	ND		25.0	22.1		ug/L		88	60 - 140	2	20
Ethylene Dibromide	ND		25.0	22.5		ug/L		90	60 - 140	3	20
Dibromomethane	ND		25.0	23.5		ug/L		94	60 - 140	0	20
Dichlorodifluoromethane	ND		25.0	24.6		ug/L		98	38 - 140	3	20
1,1-Dichloroethane	ND		25.0	20.8		ug/L		83	60 - 140	1	20
1,2-Dichloroethane	ND		25.0	25.6		ug/L		103	60 - 140	1	20
1,1-Dichloroethene	ND		25.0	19.1		ug/L		76	60 - 140	2	20
cis-1,2-Dichloroethene	ND		25.0	22.0		ug/L		88	60 - 140	1	20
trans-1,2-Dichloroethene	ND		25.0	21.7		ug/L		87	60 - 140	0	20
1,2-Dichloropropane	ND		25.0	19.5		ug/L		78	60 - 140	0	20
cis-1,3-Dichloropropene	ND		25.0	23.5		ug/L		94	60 - 140	1	20
trans-1,3-Dichloropropene	ND		25.0	25.5		ug/L		102	60 - 140	1	20
Ethylbenzene	ND		25.0	19.9		ug/L		79	60 - 140	0	20
Hexachlorobutadiene	ND		25.0	23.3		ug/L		93	60 - 140	1	20
2-Hexanone	ND		100	79.3		ug/L		79	60 - 140	3	20
Isopropylbenzene	ND		25.0	21.2		ug/L		85	60 - 140	1	20
4-Isopropyltoluene	ND		25.0	20.4		ug/L		82	60 - 140	1	20
Methylene Chloride	ND		25.0	22.0		ug/L		88	40 - 140	3	20
4-Methyl-2-pentanone (MIBK)	ND		100	84.1		ug/L		84	58 - 130	2	20
Naphthalene	ND		25.0	19.0		ug/L		76	56 - 140	1	20
N-Propylbenzene	ND		25.0	21.4		ug/L		86	60 - 140	0	20
Styrene	ND		25.0	20.2		ug/L		81	60 - 140	1	20

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

Lab Sample ID: 720-70052-1 MSD
Matrix: Water
Analysis Batch: 196582

Client Sample ID: EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	24.6		ug/L		98	60 - 140	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	19.2		ug/L		77	60 - 140	1	20
Tetrachloroethene	ND		25.0	23.8		ug/L		95	60 - 140	1	20
Toluene	ND		25.0	19.9		ug/L		80	60 - 140	0	20
1,2,3-Trichlorobenzene	ND		25.0	21.6		ug/L		86	60 - 140	1	20
1,2,4-Trichlorobenzene	ND		25.0	21.7		ug/L		87	60 - 140	1	20
1,1,1-Trichloroethane	ND		25.0	27.0		ug/L		108	60 - 140	3	20
1,1,2-Trichloroethane	ND		25.0	21.1		ug/L		84	60 - 140	1	20
Trichloroethene	ND		25.0	23.9		ug/L		96	60 - 140	1	20
Trichlorofluoromethane	ND		25.0	30.3		ug/L		121	60 - 140	2	20
1,2,3-Trichloropropane	ND		25.0	22.2		ug/L		89	60 - 140	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	23.9		ug/L		96	60 - 140	1	20
1,2,4-Trimethylbenzene	ND		25.0	22.0		ug/L		88	60 - 140	0	20
1,3,5-Trimethylbenzene	ND		25.0	20.9		ug/L		83	60 - 140	0	20
Vinyl acetate	ND		25.0	19.3		ug/L		77	40 - 140	1	20
Vinyl chloride	ND		25.0	24.4		ug/L		97	58 - 140	1	20
m-Xylene & p-Xylene	ND		25.0	22.3		ug/L		89	60 - 140	1	20
o-Xylene	ND		25.0	22.7		ug/L		91	60 - 140	0	20
2,2-Dichloropropane	ND		25.0	25.0		ug/L		100	60 - 140	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*114*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70052-1

GC/MS VOA

Analysis Batch: 196582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70052-1	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-70052-1 MS	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-70052-1 MSD	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-70052-2	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-70052-3	GAC	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-196582/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-196582/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-196582/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-196582/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-196582/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70052-1

Client Sample ID: EFF
Lab Sample ID: 720-70052-1
Date Collected: 01/28/16 09:45
Matrix: Water
Date Received: 01/28/16 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	196582	02/01/16 15:13	YB1	TAL PLS

Client Sample ID: INF
Lab Sample ID: 720-70052-2
Date Collected: 01/28/16 09:45
Matrix: Water
Date Received: 01/28/16 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	196582	02/01/16 16:37	YB1	TAL PLS

Client Sample ID: GAC
Lab Sample ID: 720-70052-3
Date Collected: 01/28/16 09:45
Matrix: Water
Date Received: 01/28/16 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	196582	02/01/16 17:05	YB1	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: 720-70052-1

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	01-31-17

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70052-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	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: 720-70052-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-70052-1	EFF	Water	01/28/16 09:45	01/28/16 15:30
720-70052-2	INF	Water	01/28/16 09:45	01/28/16 15:30
720-70052-3	GAC	Water	01/28/16 09:45	01/28/16 15:30

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720-70052

TESTAMERICA Pleasanton Chain of Custody

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

Reference #: 1 166427

Date: 1/28/16 Page 1 of 1

2/2/2016

Report To

Attn: Peter Sims
Company: Ninyo + Moore
Address: 1956 Webster St, Oakland
Email: psims@ninyoandmoore.com
Bill To: P. Sims
Sampled By: E. Dirksen
Attn:
Phone: 510 343 3000

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐200.7 ☐ Lead ☐ LUFT ☐RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
CFF	1/28/16	0945	GW	HCl	X																				4
LNF	↓	↓	1	↓	X																				LW
GAC	↓	↓	↓	↓	X																				

Project Info.

Project Name/ #: 401894.004 Chevron
PO#:
Credit Card Y/N:

Sample Receipt

# of Containers:
Head Space:
Temp: 1.9°C

If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

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

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: 1415 Time	Signature: 1530 Time	Signature: Time
Printed Name: Emily Dirksen 1/28 Date	Printed Name: Sam Bongiorno 1/28/16 Date	Printed Name: Date
Company: Ninyo and Moore	Company: TA	Company:
1) Received by:	**2) Received by:**	**3) Receive**
Signature: 1415 Time	Signature: 1530 Time	Signature: Time
Printed Name: Sam Bongiorno 1/28/16 Date	Printed Name: Dennis Arana 1/28/16 Date	Printed N: Date
Company: TA	Company: TA	Compan

720-70052 Chain of Custody

Rev.10/2012

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Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-70052-1

Login Number: 70052
List Number: 1
Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

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

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ANALYTICAL REPORT

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

TestAmerica Job ID: 720-70492-1
Client Project/Site: Chun

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

Attn: Mr. Peter D. Sims

Authorized for release by:
2/29/2016 4:13:31 PM
Micah Smith, Project Manager II
(925)484-1919
micah.smith@testamericainc.com

Designee for

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70492-1

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: 720-70492-1

Job ID: 720-70492-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-70492-1

Comments
No additional comments.

Receipt
The samples were received on 2/25/2016 2:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3º C.

GC/MS VOA
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: 720-70492-1

Client Sample ID: EFF — Lab Sample ID: 720-70492-1

No Detections.

Client Sample ID: INF — Lab Sample ID: 720-70492-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.84		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	1.7		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	1.2		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Chloroform	1.4		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	0.57		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	2.8		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	1.9		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	9.4		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	28		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	95		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	750		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: GAC — Lab Sample ID: 720-70492-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70492-1

Client Sample ID: EFF
Date Collected: 02/25/16 09:25
Date Received: 02/25/16 14:25

Lab Sample ID: 720-70492-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/27/16 18:23	1
Acetone	ND		50		ug/L			02/27/16 18:23	1
Benzene	ND		0.50		ug/L			02/27/16 18:23	1
Dichlorobromomethane	ND		0.50		ug/L			02/27/16 18:23	1
Bromobenzene	ND		1.0		ug/L			02/27/16 18:23	1
Chlorobromomethane	ND		1.0		ug/L			02/27/16 18:23	1
Bromoform	ND		1.0		ug/L			02/27/16 18:23	1
Bromomethane	ND		1.0		ug/L			02/27/16 18:23	1
2-Butanone (MEK)	ND		50		ug/L			02/27/16 18:23	1
n-Butylbenzene	ND		1.0		ug/L			02/27/16 18:23	1
sec-Butylbenzene	ND		1.0		ug/L			02/27/16 18:23	1
tert-Butylbenzene	ND		1.0		ug/L			02/27/16 18:23	1
Carbon disulfide	ND		5.0		ug/L			02/27/16 18:23	1
Carbon tetrachloride	ND		0.50		ug/L			02/27/16 18:23	1
Chlorobenzene	ND		0.50		ug/L			02/27/16 18:23	1
Chloroethane	ND		1.0		ug/L			02/27/16 18:23	1
Chloroform	ND		1.0		ug/L			02/27/16 18:23	1
Chloromethane	ND		1.0		ug/L			02/27/16 18:23	1
2-Chlorotoluene	ND		0.50		ug/L			02/27/16 18:23	1
4-Chlorotoluene	ND		0.50		ug/L			02/27/16 18:23	1
Chlorodibromomethane	ND		0.50		ug/L			02/27/16 18:23	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/27/16 18:23	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/27/16 18:23	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/27/16 18:23	1
1,3-Dichloropropane	ND		1.0		ug/L			02/27/16 18:23	1
1,1-Dichloropropene	ND		0.50		ug/L			02/27/16 18:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/27/16 18:23	1
Ethylene Dibromide	ND		0.50		ug/L			02/27/16 18:23	1
Dibromomethane	ND		0.50		ug/L			02/27/16 18:23	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/27/16 18:23	1
1,1-Dichloroethane	ND		0.50		ug/L			02/27/16 18:23	1
1,2-Dichloroethane	ND		0.50		ug/L			02/27/16 18:23	1
1,1-Dichloroethene	ND		0.50		ug/L			02/27/16 18:23	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/27/16 18:23	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/27/16 18:23	1
1,2-Dichloropropane	ND		0.50		ug/L			02/27/16 18:23	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/27/16 18:23	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/27/16 18:23	1
Ethylbenzene	ND		0.50		ug/L			02/27/16 18:23	1
Hexachlorobutadiene	ND		1.0		ug/L			02/27/16 18:23	1
2-Hexanone	ND		50		ug/L			02/27/16 18:23	1
Isopropylbenzene	ND		0.50		ug/L			02/27/16 18:23	1
4-Isopropyltoluene	ND		1.0		ug/L			02/27/16 18:23	1
Methylene Chloride	ND		5.0		ug/L			02/27/16 18:23	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/27/16 18:23	1
Naphthalene	ND		1.0		ug/L			02/27/16 18:23	1
N-Propylbenzene	ND		1.0		ug/L			02/27/16 18:23	1
Styrene	ND		0.50		ug/L			02/27/16 18:23	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/27/16 18:23	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70492-1

Client Sample ID: EFF
Date Collected: 02/25/16 09:25
Date Received: 02/25/16 14:25

Lab Sample ID: 720-70492-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/27/16 18:23	1
Tetrachloroethene	ND		0.50		ug/L			02/27/16 18:23	1
Toluene	ND		0.50		ug/L			02/27/16 18:23	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/27/16 18:23	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/27/16 18:23	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/27/16 18:23	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/27/16 18:23	1
Trichloroethene	ND		0.50		ug/L			02/27/16 18:23	1
Trichlorofluoromethane	ND		1.0		ug/L			02/27/16 18:23	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/27/16 18:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/27/16 18:23	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/27/16 18:23	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/27/16 18:23	1
Vinyl acetate	ND		10		ug/L			02/27/16 18:23	1
Vinyl chloride	ND		0.50		ug/L			02/27/16 18:23	1
Xylenes, Total	ND		1.0		ug/L			02/27/16 18:23	1
2,2-Dichloropropane	ND		0.50		ug/L			02/27/16 18:23	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/27/16 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*02/27/16 18:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 130*		*02/27/16 18:23*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*02/27/16 18:23*	*1*

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70492-1

Client Sample ID: INF
Date Collected: 02/25/16 09:25
Date Received: 02/25/16 14:25

Lab Sample ID: 720-70492-2
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	**0.84**		0.50		ug/L			02/27/16 18:52	1
Acetone	ND		50		ug/L			02/27/16 18:52	1
Benzene	**1.7**		0.50		ug/L			02/27/16 18:52	1
Dichlorobromomethane	ND		0.50		ug/L			02/27/16 18:52	1
Bromobenzene	ND		1.0		ug/L			02/27/16 18:52	1
Chlorobromomethane	ND		1.0		ug/L			02/27/16 18:52	1
Bromoform	ND		1.0		ug/L			02/27/16 18:52	1
Bromomethane	ND		1.0		ug/L			02/27/16 18:52	1
2-Butanone (MEK)	ND		50		ug/L			02/27/16 18:52	1
n-Butylbenzene	**1.2**		1.0		ug/L			02/27/16 18:52	1
sec-Butylbenzene	ND		1.0		ug/L			02/27/16 18:52	1
tert-Butylbenzene	ND		1.0		ug/L			02/27/16 18:52	1
Carbon disulfide	ND		5.0		ug/L			02/27/16 18:52	1
Carbon tetrachloride	ND		0.50		ug/L			02/27/16 18:52	1
Chlorobenzene	ND		0.50		ug/L			02/27/16 18:52	1
Chloroethane	ND		1.0		ug/L			02/27/16 18:52	1
Chloroform	**1.4**		1.0		ug/L			02/27/16 18:52	1
Chloromethane	ND		1.0		ug/L			02/27/16 18:52	1
2-Chlorotoluene	ND		0.50		ug/L			02/27/16 18:52	1
4-Chlorotoluene	ND		0.50		ug/L			02/27/16 18:52	1
Chlorodibromomethane	ND		0.50		ug/L			02/27/16 18:52	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/27/16 18:52	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/27/16 18:52	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/27/16 18:52	1
1,3-Dichloropropane	ND		1.0		ug/L			02/27/16 18:52	1
1,1-Dichloropropene	ND		0.50		ug/L			02/27/16 18:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/27/16 18:52	1
Ethylene Dibromide	ND		0.50		ug/L			02/27/16 18:52	1
Dibromomethane	ND		0.50		ug/L			02/27/16 18:52	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/27/16 18:52	1
1,1-Dichloroethane	ND		0.50		ug/L			02/27/16 18:52	1
1,2-Dichloroethane	**0.57**		0.50		ug/L			02/27/16 18:52	1
1,1-Dichloroethene	ND		0.50		ug/L			02/27/16 18:52	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/27/16 18:52	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/27/16 18:52	1
1,2-Dichloropropane	ND		0.50		ug/L			02/27/16 18:52	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/27/16 18:52	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/27/16 18:52	1
Ethylbenzene	ND		0.50		ug/L			02/27/16 18:52	1
Hexachlorobutadiene	ND		1.0		ug/L			02/27/16 18:52	1
2-Hexanone	ND		50		ug/L			02/27/16 18:52	1
Isopropylbenzene	ND		0.50		ug/L			02/27/16 18:52	1
4-Isopropyltoluene	ND		1.0		ug/L			02/27/16 18:52	1
Methylene Chloride	ND		5.0		ug/L			02/27/16 18:52	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/27/16 18:52	1
Naphthalene	**2.8**		1.0		ug/L			02/27/16 18:52	1
N-Propylbenzene	ND		1.0		ug/L			02/27/16 18:52	1
Styrene	ND		0.50		ug/L			02/27/16 18:52	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/27/16 18:52	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70492-1

Client Sample ID: INF
Date Collected: 02/25/16 09:25
Date Received: 02/25/16 14:25

Lab Sample ID: 720-70492-2
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			02/27/16 18:52	1
Tetrachloroethene	ND		0.50		ug/L			02/27/16 18:52	1
Toluene	**1.9**		0.50		ug/L			02/27/16 18:52	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/27/16 18:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/27/16 18:52	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/27/16 18:52	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/27/16 18:52	1
Trichloroethene	ND		0.50		ug/L			02/27/16 18:52	1
Trichlorofluoromethane	ND		1.0		ug/L			02/27/16 18:52	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/27/16 18:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/27/16 18:52	1
1,2,4-Trimethylbenzene	**9.4**		0.50		ug/L			02/27/16 18:52	1
1,3,5-Trimethylbenzene	**28**		0.50		ug/L			02/27/16 18:52	1
Vinyl acetate	ND		10		ug/L			02/27/16 18:52	1
Vinyl chloride	ND		0.50		ug/L			02/27/16 18:52	1
Xylenes, Total	**95**		1.0		ug/L			02/27/16 18:52	1
2,2-Dichloropropane	ND		0.50		ug/L			02/27/16 18:52	1
Gasoline Range Organics (GRO) -C5-C12	**750**		50		ug/L			02/27/16 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*67 - 130*		*02/27/16 18:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 130*		*02/27/16 18:52*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*02/27/16 18:52*	*1*

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70492-1

Client Sample ID: GAC
Date Collected: 02/25/16 09:25
Date Received: 02/25/16 14:25

Lab Sample ID: 720-70492-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/27/16 19:22	1
Acetone	ND		50		ug/L			02/27/16 19:22	1
Benzene	ND		0.50		ug/L			02/27/16 19:22	1
Dichlorobromomethane	ND		0.50		ug/L			02/27/16 19:22	1
Bromobenzene	ND		1.0		ug/L			02/27/16 19:22	1
Chlorobromomethane	ND		1.0		ug/L			02/27/16 19:22	1
Bromoform	ND		1.0		ug/L			02/27/16 19:22	1
Bromomethane	ND		1.0		ug/L			02/27/16 19:22	1
2-Butanone (MEK)	ND		50		ug/L			02/27/16 19:22	1
n-Butylbenzene	ND		1.0		ug/L			02/27/16 19:22	1
sec-Butylbenzene	ND		1.0		ug/L			02/27/16 19:22	1
tert-Butylbenzene	ND		1.0		ug/L			02/27/16 19:22	1
Carbon disulfide	ND		5.0		ug/L			02/27/16 19:22	1
Carbon tetrachloride	ND		0.50		ug/L			02/27/16 19:22	1
Chlorobenzene	ND		0.50		ug/L			02/27/16 19:22	1
Chloroethane	ND		1.0		ug/L			02/27/16 19:22	1
Chloroform	ND		1.0		ug/L			02/27/16 19:22	1
Chloromethane	ND		1.0		ug/L			02/27/16 19:22	1
2-Chlorotoluene	ND		0.50		ug/L			02/27/16 19:22	1
4-Chlorotoluene	ND		0.50		ug/L			02/27/16 19:22	1
Chlorodibromomethane	ND		0.50		ug/L			02/27/16 19:22	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/27/16 19:22	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/27/16 19:22	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/27/16 19:22	1
1,3-Dichloropropane	ND		1.0		ug/L			02/27/16 19:22	1
1,1-Dichloropropene	ND		0.50		ug/L			02/27/16 19:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/27/16 19:22	1
Ethylene Dibromide	ND		0.50		ug/L			02/27/16 19:22	1
Dibromomethane	ND		0.50		ug/L			02/27/16 19:22	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/27/16 19:22	1
1,1-Dichloroethane	ND		0.50		ug/L			02/27/16 19:22	1
1,2-Dichloroethane	ND		0.50		ug/L			02/27/16 19:22	1
1,1-Dichloroethene	ND		0.50		ug/L			02/27/16 19:22	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/27/16 19:22	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/27/16 19:22	1
1,2-Dichloropropane	ND		0.50		ug/L			02/27/16 19:22	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/27/16 19:22	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/27/16 19:22	1
Ethylbenzene	ND		0.50		ug/L			02/27/16 19:22	1
Hexachlorobutadiene	ND		1.0		ug/L			02/27/16 19:22	1
2-Hexanone	ND		50		ug/L			02/27/16 19:22	1
Isopropylbenzene	ND		0.50		ug/L			02/27/16 19:22	1
4-Isopropyltoluene	ND		1.0		ug/L			02/27/16 19:22	1
Methylene Chloride	ND		5.0		ug/L			02/27/16 19:22	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/27/16 19:22	1
Naphthalene	ND		1.0		ug/L			02/27/16 19:22	1
N-Propylbenzene	ND		1.0		ug/L			02/27/16 19:22	1
Styrene	ND		0.50		ug/L			02/27/16 19:22	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/27/16 19:22	1

Client Sample ID: GAC
Date Collected: 02/25/16 09:25
Date Received: 02/25/16 14:25

Lab Sample ID: 720-70492-3
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			02/27/16 19:22	1
Tetrachloroethene	ND		0.50		ug/L			02/27/16 19:22	1
Toluene	ND		0.50		ug/L			02/27/16 19:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/27/16 19:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/27/16 19:22	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/27/16 19:22	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/27/16 19:22	1
Trichloroethene	ND		0.50		ug/L			02/27/16 19:22	1
Trichlorofluoromethane	ND		1.0		ug/L			02/27/16 19:22	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/27/16 19:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/27/16 19:22	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/27/16 19:22	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/27/16 19:22	1
Vinyl acetate	ND		10		ug/L			02/27/16 19:22	1
Vinyl chloride	ND		0.50		ug/L			02/27/16 19:22	1
Xylenes, Total	ND		1.0		ug/L			02/27/16 19:22	1
2,2-Dichloropropane	ND		0.50		ug/L			02/27/16 19:22	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/27/16 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*02/27/16 19:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 130*		*02/27/16 19:22*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*02/27/16 19:22*	*1*

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

Lab Sample ID: MB 720-197761/5
Matrix: Water
Analysis Batch: 197761

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			02/27/16 13:01	1
Acetone	ND		50		ug/L			02/27/16 13:01	1
Benzene	ND		0.50		ug/L			02/27/16 13:01	1
Dichlorobromomethane	ND		0.50		ug/L			02/27/16 13:01	1
Bromobenzene	ND		1.0		ug/L			02/27/16 13:01	1
Chlorobromomethane	ND		1.0		ug/L			02/27/16 13:01	1
Bromoform	ND		1.0		ug/L			02/27/16 13:01	1
Bromomethane	ND		1.0		ug/L			02/27/16 13:01	1
2-Butanone (MEK)	ND		50		ug/L			02/27/16 13:01	1
n-Butylbenzene	ND		1.0		ug/L			02/27/16 13:01	1
sec-Butylbenzene	ND		1.0		ug/L			02/27/16 13:01	1
tert-Butylbenzene	ND		1.0		ug/L			02/27/16 13:01	1
Carbon disulfide	ND		5.0		ug/L			02/27/16 13:01	1
Carbon tetrachloride	ND		0.50		ug/L			02/27/16 13:01	1
Chlorobenzene	ND		0.50		ug/L			02/27/16 13:01	1
Chloroethane	ND		1.0		ug/L			02/27/16 13:01	1
Chloroform	ND		1.0		ug/L			02/27/16 13:01	1
Chloromethane	ND		1.0		ug/L			02/27/16 13:01	1
2-Chlorotoluene	ND		0.50		ug/L			02/27/16 13:01	1
4-Chlorotoluene	ND		0.50		ug/L			02/27/16 13:01	1
Chlorodibromomethane	ND		0.50		ug/L			02/27/16 13:01	1
1,2-Dichlorobenzene	ND		0.50		ug/L			02/27/16 13:01	1
1,3-Dichlorobenzene	ND		0.50		ug/L			02/27/16 13:01	1
1,4-Dichlorobenzene	ND		0.50		ug/L			02/27/16 13:01	1
1,3-Dichloropropane	ND		1.0		ug/L			02/27/16 13:01	1
1,1-Dichloropropene	ND		0.50		ug/L			02/27/16 13:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/27/16 13:01	1
Ethylene Dibromide	ND		0.50		ug/L			02/27/16 13:01	1
Dibromomethane	ND		0.50		ug/L			02/27/16 13:01	1
Dichlorodifluoromethane	ND		0.50		ug/L			02/27/16 13:01	1
1,1-Dichloroethane	ND		0.50		ug/L			02/27/16 13:01	1
1,2-Dichloroethane	ND		0.50		ug/L			02/27/16 13:01	1
1,1-Dichloroethene	ND		0.50		ug/L			02/27/16 13:01	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			02/27/16 13:01	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			02/27/16 13:01	1
1,2-Dichloropropane	ND		0.50		ug/L			02/27/16 13:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/27/16 13:01	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			02/27/16 13:01	1
Ethylbenzene	ND		0.50		ug/L			02/27/16 13:01	1
Hexachlorobutadiene	ND		1.0		ug/L			02/27/16 13:01	1
2-Hexanone	ND		50		ug/L			02/27/16 13:01	1
Isopropylbenzene	ND		0.50		ug/L			02/27/16 13:01	1
4-Isopropyltoluene	ND		1.0		ug/L			02/27/16 13:01	1
Methylene Chloride	ND		5.0		ug/L			02/27/16 13:01	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/27/16 13:01	1
Naphthalene	ND		1.0		ug/L			02/27/16 13:01	1
N-Propylbenzene	ND		1.0		ug/L			02/27/16 13:01	1
Styrene	ND		0.50		ug/L			02/27/16 13:01	1

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

Lab Sample ID: MB 720-197761/5
Matrix: Water
Analysis Batch: 197761

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			02/27/16 13:01	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/27/16 13:01	1
Tetrachloroethene	ND		0.50		ug/L			02/27/16 13:01	1
Toluene	ND		0.50		ug/L			02/27/16 13:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/27/16 13:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/27/16 13:01	1
1,1,1-Trichloroethane	ND		0.50		ug/L			02/27/16 13:01	1
1,1,2-Trichloroethane	ND		0.50		ug/L			02/27/16 13:01	1
Trichloroethene	ND		0.50		ug/L			02/27/16 13:01	1
Trichlorofluoromethane	ND		1.0		ug/L			02/27/16 13:01	1
1,2,3-Trichloropropane	ND		0.50		ug/L			02/27/16 13:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			02/27/16 13:01	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			02/27/16 13:01	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			02/27/16 13:01	1
Vinyl acetate	ND		10		ug/L			02/27/16 13:01	1
Vinyl chloride	ND		0.50		ug/L			02/27/16 13:01	1
Xylenes, Total	ND		1.0		ug/L			02/27/16 13:01	1
2,2-Dichloropropane	ND		0.50		ug/L			02/27/16 13:01	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			02/27/16 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*02/27/16 13:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 130*		*02/27/16 13:01*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*02/27/16 13:01*	*1*

Lab Sample ID: LCS 720-197761/6
Matrix: Water
Analysis Batch: 197761

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.6		ug/L		99	62 - 130
Acetone	125	101		ug/L		81	26 - 180
Benzene	25.0	23.4		ug/L		93	79 - 130
Dichlorobromomethane	25.0	24.7		ug/L		99	70 - 130
Bromobenzene	25.0	23.1		ug/L		92	70 - 130
Chlorobromomethane	25.0	23.0		ug/L		92	70 - 130
Bromoform	25.0	25.0		ug/L		100	68 - 136
Bromomethane	25.0	22.6		ug/L		90	43 - 151
2-Butanone (MEK)	125	119		ug/L		95	54 - 130
n-Butylbenzene	25.0	25.9		ug/L		104	70 - 142
sec-Butylbenzene	25.0	26.1		ug/L		104	70 - 134
tert-Butylbenzene	25.0	25.3		ug/L		101	70 - 135
Carbon disulfide	25.0	19.5		ug/L		78	58 - 130
Carbon tetrachloride	25.0	23.9		ug/L		96	70 - 146
Chlorobenzene	25.0	23.7		ug/L		95	70 - 130
Chloroethane	25.0	23.1		ug/L		92	62 - 138
Chloroform	25.0	23.9		ug/L		96	70 - 130

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

Lab Sample ID: LCS 720-197761/6
Matrix: Water
Analysis Batch: 197761

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	26.2		ug/L		105	52 - 175
2-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130
4-Chlorotoluene	25.0	25.2		ug/L		101	70 - 130
Chlorodibromomethane	25.0	24.4		ug/L		97	70 - 145
1,2-Dichlorobenzene	25.0	23.1		ug/L		92	70 - 130
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130
1,4-Dichlorobenzene	25.0	22.9		ug/L		91	70 - 130
1,3-Dichloropropane	25.0	24.5		ug/L		98	70 - 130
1,1-Dichloropropene	25.0	23.8		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.3		ug/L		97	70 - 136
Ethylene Dibromide	25.0	24.2		ug/L		97	70 - 130
Dibromomethane	25.0	24.0		ug/L		96	70 - 130
Dichlorodifluoromethane	25.0	29.3		ug/L		117	32 - 158
1,1-Dichloroethane	25.0	24.2		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	24.7		ug/L		99	61 - 132
1,1-Dichloroethene	25.0	19.9		ug/L		80	64 - 128
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	70 - 130
trans-1,2-Dichloroethene	25.0	22.3		ug/L		89	68 - 130
1,2-Dichloropropane	25.0	24.5		ug/L		98	70 - 130
cis-1,3-Dichloropropene	25.0	25.6		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	70 - 140
Ethylbenzene	25.0	25.0		ug/L		100	80 - 120
Hexachlorobutadiene	25.0	20.7		ug/L		83	70 - 130
2-Hexanone	125	138		ug/L		110	60 - 164
Isopropylbenzene	25.0	26.1		ug/L		105	70 - 130
4-Isopropyltoluene	25.0	25.1		ug/L		100	70 - 130
Methylene Chloride	25.0	23.6		ug/L		94	70 - 147
4-Methyl-2-pentanone (MIBK)	125	151		ug/L		121	58 - 130
Naphthalene	25.0	24.0		ug/L		96	70 - 130
N-Propylbenzene	25.0	26.0		ug/L		104	70 - 130
Styrene	25.0	25.4		ug/L		102	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.6		ug/L		98	70 - 130
Tetrachloroethene	25.0	21.9		ug/L		88	70 - 130
Toluene	25.0	23.9		ug/L		96	78 - 120
1,2,3-Trichlorobenzene	25.0	21.8		ug/L		87	70 - 130
1,2,4-Trichlorobenzene	25.0	22.5		ug/L		90	70 - 130
1,1,1-Trichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,2-Trichloroethane	25.0	24.1		ug/L		96	70 - 130
Trichloroethene	25.0	22.9		ug/L		92	70 - 130
Trichlorofluoromethane	25.0	24.5		ug/L		98	66 - 132
1,2,3-Trichloropropane	25.0	26.0		ug/L		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.2		ug/L		81	42 - 162
1,2,4-Trimethylbenzene	25.0	25.9		ug/L		104	70 - 132
1,3,5-Trimethylbenzene	25.0	25.6		ug/L		102	70 - 130
Vinyl acetate	25.0	24.3		ug/L		97	43 - 163
Vinyl chloride	25.0	25.1		ug/L		100	54 - 135

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

Lab Sample ID: LCS 720-197761/6
Matrix: Water
Analysis Batch: 197761

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	24.7		ug/L		99	70 - 142
o-Xylene	25.0	25.0		ug/L		100	70 - 130
2,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCS 720-197761/8
Matrix: Water
Analysis Batch: 197761

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	599		ug/L		120	71 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 720-197761/7
Matrix: Water
Analysis Batch: 197761

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	24.3		ug/L		97	62 - 130	1	20
Acetone	125	108		ug/L		86	26 - 180	6	30
Benzene	25.0	23.4		ug/L		94	79 - 130	0	20
Dichlorobromomethane	25.0	24.7		ug/L		99	70 - 130	0	20
Bromobenzene	25.0	23.4		ug/L		94	70 - 130	1	20
Chlorobromomethane	25.0	22.7		ug/L		91	70 - 130	2	20
Bromoform	25.0	25.3		ug/L		101	68 - 136	1	20
Bromomethane	25.0	23.2		ug/L		93	43 - 151	3	20
2-Butanone (MEK)	125	114		ug/L		91	54 - 130	4	20
n-Butylbenzene	25.0	26.3		ug/L		105	70 - 142	2	20
sec-Butylbenzene	25.0	26.5		ug/L		106	70 - 134	1	20
tert-Butylbenzene	25.0	25.6		ug/L		102	70 - 135	1	20
Carbon disulfide	25.0	19.8		ug/L		79	58 - 130	2	20
Carbon tetrachloride	25.0	24.3		ug/L		97	70 - 146	2	20
Chlorobenzene	25.0	24.0		ug/L		96	70 - 130	1	20
Chloroethane	25.0	23.3		ug/L		93	62 - 138	1	20
Chloroform	25.0	24.1		ug/L		96	70 - 130	1	20
Chloromethane	25.0	27.4		ug/L		110	52 - 175	4	20
2-Chlorotoluene	25.0	25.4		ug/L		101	70 - 130	1	20
4-Chlorotoluene	25.0	25.6		ug/L		102	70 - 130	2	20
Chlorodibromomethane	25.0	24.3		ug/L		97	70 - 145	0	20

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

Lab Sample ID: LCSD 720-197761/7
Matrix: Water
Analysis Batch: 197761

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	23.1		ug/L		92	70 - 130	0	20
1,3-Dichlorobenzene			25.0	23.3		ug/L		93	70 - 130	0	20
1,4-Dichlorobenzene			25.0	22.9		ug/L		92	70 - 130	0	20
1,3-Dichloropropane			25.0	24.1		ug/L		97	70 - 130	2	20
1,1-Dichloropropene			25.0	23.9		ug/L		96	70 - 130	1	20
1,2-Dibromo-3-Chloropropane			25.0	23.7		ug/L		95	70 - 136	2	20
Ethylene Dibromide			25.0	24.0		ug/L		96	70 - 130	1	20
Dibromomethane			25.0	23.7		ug/L		95	70 - 130	1	20
Dichlorodifluoromethane			25.0	29.2		ug/L		117	32 - 158	0	20
1,1-Dichloroethane			25.0	24.3		ug/L		97	70 - 130	0	20
1,2-Dichloroethane			25.0	24.8		ug/L		99	61 - 132	0	20
1,1-Dichloroethene			25.0	20.4		ug/L		82	64 - 128	2	20
cis-1,2-Dichloroethene			25.0	24.3		ug/L		97	70 - 130	1	20
trans-1,2-Dichloroethene			25.0	22.4		ug/L		90	68 - 130	0	20
1,2-Dichloropropane			25.0	24.7		ug/L		99	70 - 130	1	20
cis-1,3-Dichloropropene			25.0	25.4		ug/L		102	70 - 130	1	20
trans-1,3-Dichloropropene			25.0	26.5		ug/L		106	70 - 140	0	20
Ethylbenzene			25.0	25.5		ug/L		102	80 - 120	2	20
Hexachlorobutadiene			25.0	20.8		ug/L		83	70 - 130	1	20
2-Hexanone			125	132		ug/L		106	60 - 164	4	20
Isopropylbenzene			25.0	26.5		ug/L		106	70 - 130	1	20
4-Isopropyltoluene			25.0	25.4		ug/L		102	70 - 130	1	20
Methylene Chloride			25.0	23.8		ug/L		95	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)			125	144		ug/L		115	58 - 130	5	20
Naphthalene			25.0	24.1		ug/L		96	70 - 130	0	20
N-Propylbenzene			25.0	26.2		ug/L		105	70 - 130	1	20
Styrene			25.0	25.8		ug/L		103	70 - 130	2	20
1,1,1,2-Tetrachloroethane			25.0	24.0		ug/L		96	70 - 130	1	20
1,1,2,2-Tetrachloroethane			25.0	23.8		ug/L		95	70 - 130	3	20
Tetrachloroethene			25.0	22.3		ug/L		89	70 - 130	2	20
Toluene			25.0	24.4		ug/L		98	78 - 120	2	20
1,2,3-Trichlorobenzene			25.0	21.8		ug/L		87	70 - 130	0	20
1,2,4-Trichlorobenzene			25.0	22.3		ug/L		89	70 - 130	1	20
1,1,1-Trichloroethane			25.0	24.2		ug/L		97	70 - 130	2	20
1,1,2-Trichloroethane			25.0	23.8		ug/L		95	70 - 130	1	20
Trichloroethene			25.0	23.1		ug/L		93	70 - 130	1	20
Trichlorofluoromethane			25.0	24.5		ug/L		98	66 - 132	0	20
1,2,3-Trichloropropane			25.0	25.5		ug/L		102	70 - 130	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	20.3		ug/L		81	42 - 162	0	20
1,2,4-Trimethylbenzene			25.0	26.1		ug/L		104	70 - 132	1	20
1,3,5-Trimethylbenzene			25.0	25.9		ug/L		104	70 - 130	1	20
Vinyl acetate			25.0	23.6		ug/L		94	43 - 163	3	20
Vinyl chloride			25.0	25.3		ug/L		101	54 - 135	1	20
m-Xylene & p-Xylene			25.0	25.3		ug/L		101	70 - 142	2	20
o-Xylene			25.0	25.4		ug/L		101	70 - 130	1	20
2,2-Dichloropropane			25.0	23.9		ug/L		96	70 - 140	2	20

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

Lab Sample ID: LCSD 720-197761/7
Matrix: Water
Analysis Batch: 197761

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 720-197761/9
Matrix: Water
Analysis Batch: 197761

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	595		ug/L		119	71 - 125	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70492-1

GC/MS VOA

Analysis Batch: 197761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-70492-1	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-70492-2	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-70492-3	GAC	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-197761/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-197761/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-197761/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-197761/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-197761/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70492-1

Client Sample ID: EFF
Lab Sample ID: 720-70492-1
Date Collected: 02/25/16 09:25
Matrix: Water
Date Received: 02/25/16 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	197761	02/27/16 18:23	YB1	TAL PLS

Client Sample ID: INF
Lab Sample ID: 720-70492-2
Date Collected: 02/25/16 09:25
Matrix: Water
Date Received: 02/25/16 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	197761	02/27/16 18:52	YB1	TAL PLS

Client Sample ID: GAC
Lab Sample ID: 720-70492-3
Date Collected: 02/25/16 09:25
Matrix: Water
Date Received: 02/25/16 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	197761	02/27/16 19:22	YB1	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: 720-70492-1

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	01-31-17

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-70492-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	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: 720-70492-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-70492-1	EFF	Water	02/25/16 09:25	02/25/16 14:25
720-70492-2	INF	Water	02/25/16 09:25	02/25/16 14:25
720-70492-3	GAC	Water	02/25/16 09:25	02/25/16 14:25

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-70492

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

Reference #: 166858

Date 2/25/16 Page 1 of 1

2/29/2016

Report To

Attn: Peter Sims
Company: Ninyo & Moore
Address: 1956 Webster St, Oakland, CA
Email: psims@ninyoandmoore.com
Bill To: Same
Sampled By: EED
Attn: Same
Phone: 510.343.3000

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B + TPHg	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): potassium + manganese	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4 ortho	ammonia SM4500 NH3	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Iron	Iron by calc	Number of Containers
EFF	2/25	0925	GW	HCl	X																					3
INF	2/25	0925	GW	HCl	X																					3
GAC	2/25	0925	GW	HCl	X																					3

720-70492 Chain of Custody

Page 23 of 24

Project Info.

Project Name/ #: 401894004/ Chun
PO#:
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp: 3.2
If yes, please call with payment information ASAP

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☒ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID T0600100980

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: 13:35 Time	Signature: 1425 Time	Signature: Time
Printed Name: Amily Dresen 2/25/16 Date	Printed Name: Ed Martinez 2.25.16 Date	Printed Name: Date
Company: ninyo & moore	Company: CA	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: 1335 Time	Signature: 1425 Time	Signature: Time
Printed Name: Ed Martinez 2-25-16 Date	Printed Name: 2-25-16 Date	Printed Name: Date
Company: TestAmerica	Company:	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-70492-1

Login Number: 70492
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	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

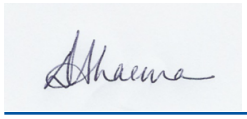
ANALYTICAL REPORT

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

TestAmerica Job ID: 720-71134-1
Client Project/Site: Chun

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

Attn: Mr. Peter D. Sims



Authorized for release by:
3/29/2016 9:03:18 AM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

Table of Contents

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-71134-1

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: 720-71134-1

Job ID: 720-71134-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-71134-1

Comments
No additional comments.

Receipt
The samples were received on 3/25/2016 3:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9º C.

GC/MS VOA
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: 720-71134-1

Client Sample ID: EFF — Lab Sample ID: 720-71134-1

No Detections.

Client Sample ID: INF — Lab Sample ID: 720-71134-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.74		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	10		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Chloroform	1.2		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	0.53		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	9.1		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	7.4		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	11		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	23		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	140		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	600		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: GAC — Lab Sample ID: 720-71134-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-71134-1

Client Sample ID: EFF
Date Collected: 03/24/16 15:15
Date Received: 03/25/16 15:50

Lab Sample ID: 720-71134-1
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			03/25/16 22:44	1
Acetone	ND		50		ug/L			03/25/16 22:44	1
Benzene	ND		0.50		ug/L			03/25/16 22:44	1
Dichlorobromomethane	ND		0.50		ug/L			03/25/16 22:44	1
Bromobenzene	ND		1.0		ug/L			03/25/16 22:44	1
Chlorobromomethane	ND		1.0		ug/L			03/25/16 22:44	1
Bromoform	ND		1.0		ug/L			03/25/16 22:44	1
Bromomethane	ND		1.0		ug/L			03/25/16 22:44	1
2-Butanone (MEK)	ND		50		ug/L			03/25/16 22:44	1
n-Butylbenzene	ND		1.0		ug/L			03/25/16 22:44	1
sec-Butylbenzene	ND		1.0		ug/L			03/25/16 22:44	1
tert-Butylbenzene	ND		1.0		ug/L			03/25/16 22:44	1
Carbon disulfide	ND		5.0		ug/L			03/25/16 22:44	1
Carbon tetrachloride	ND		0.50		ug/L			03/25/16 22:44	1
Chlorobenzene	ND		0.50		ug/L			03/25/16 22:44	1
Chloroethane	ND		1.0		ug/L			03/25/16 22:44	1
Chloroform	ND		1.0		ug/L			03/25/16 22:44	1
Chloromethane	ND		1.0		ug/L			03/25/16 22:44	1
2-Chlorotoluene	ND		0.50		ug/L			03/25/16 22:44	1
4-Chlorotoluene	ND		0.50		ug/L			03/25/16 22:44	1
Chlorodibromomethane	ND		0.50		ug/L			03/25/16 22:44	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/25/16 22:44	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/25/16 22:44	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/25/16 22:44	1
1,3-Dichloropropane	ND		1.0		ug/L			03/25/16 22:44	1
1,1-Dichloropropene	ND		0.50		ug/L			03/25/16 22:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/25/16 22:44	1
Ethylene Dibromide	ND		0.50		ug/L			03/25/16 22:44	1
Dibromomethane	ND		0.50		ug/L			03/25/16 22:44	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/25/16 22:44	1
1,1-Dichloroethane	ND		0.50		ug/L			03/25/16 22:44	1
1,2-Dichloroethane	ND		0.50		ug/L			03/25/16 22:44	1
1,1-Dichloroethene	ND		0.50		ug/L			03/25/16 22:44	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/25/16 22:44	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/25/16 22:44	1
1,2-Dichloropropane	ND		0.50		ug/L			03/25/16 22:44	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/25/16 22:44	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/25/16 22:44	1
Ethylbenzene	ND		0.50		ug/L			03/25/16 22:44	1
Hexachlorobutadiene	ND		1.0		ug/L			03/25/16 22:44	1
2-Hexanone	ND		50		ug/L			03/25/16 22:44	1
Isopropylbenzene	ND		0.50		ug/L			03/25/16 22:44	1
4-Isopropyltoluene	ND		1.0		ug/L			03/25/16 22:44	1
Methylene Chloride	ND		5.0		ug/L			03/25/16 22:44	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			03/25/16 22:44	1
Naphthalene	ND		1.0		ug/L			03/25/16 22:44	1
N-Propylbenzene	ND		1.0		ug/L			03/25/16 22:44	1
Styrene	ND		0.50		ug/L			03/25/16 22:44	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/25/16 22:44	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-71134-1

Client Sample ID: EFF
Date Collected: 03/24/16 15:15
Date Received: 03/25/16 15:50

Lab Sample ID: 720-71134-1
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			03/25/16 22:44	1
Tetrachloroethene	ND		0.50		ug/L			03/25/16 22:44	1
Toluene	ND		0.50		ug/L			03/25/16 22:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/25/16 22:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/25/16 22:44	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/25/16 22:44	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/25/16 22:44	1
Trichloroethene	ND		0.50		ug/L			03/25/16 22:44	1
Trichlorofluoromethane	ND		1.0		ug/L			03/25/16 22:44	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/25/16 22:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/25/16 22:44	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/25/16 22:44	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/25/16 22:44	1
Vinyl acetate	ND		10		ug/L			03/25/16 22:44	1
Vinyl chloride	ND		0.50		ug/L			03/25/16 22:44	1
Xylenes, Total	ND		1.0		ug/L			03/25/16 22:44	1
2,2-Dichloropropane	ND		0.50		ug/L			03/25/16 22:44	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/25/16 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*67 - 130*		*03/25/16 22:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*		*03/25/16 22:44*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*03/25/16 22:44*	*1*

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-71134-1

Client Sample ID: INF
Date Collected: 03/24/16 15:15
Date Received: 03/25/16 15:50

Lab Sample ID: 720-71134-2
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	**0.74**		0.50		ug/L			03/26/16 00:11	1
Acetone	ND		50		ug/L			03/26/16 00:11	1
Benzene	**10**		0.50		ug/L			03/26/16 00:11	1
Dichlorobromomethane	ND		0.50		ug/L			03/26/16 00:11	1
Bromobenzene	ND		1.0		ug/L			03/26/16 00:11	1
Chlorobromomethane	ND		1.0		ug/L			03/26/16 00:11	1
Bromoform	ND		1.0		ug/L			03/26/16 00:11	1
Bromomethane	ND		1.0		ug/L			03/26/16 00:11	1
2-Butanone (MEK)	ND		50		ug/L			03/26/16 00:11	1
n-Butylbenzene	ND		1.0		ug/L			03/26/16 00:11	1
sec-Butylbenzene	ND		1.0		ug/L			03/26/16 00:11	1
tert-Butylbenzene	ND		1.0		ug/L			03/26/16 00:11	1
Carbon disulfide	ND		5.0		ug/L			03/26/16 00:11	1
Carbon tetrachloride	ND		0.50		ug/L			03/26/16 00:11	1
Chlorobenzene	ND		0.50		ug/L			03/26/16 00:11	1
Chloroethane	ND		1.0		ug/L			03/26/16 00:11	1
Chloroform	**1.2**		1.0		ug/L			03/26/16 00:11	1
Chloromethane	ND		1.0		ug/L			03/26/16 00:11	1
2-Chlorotoluene	ND		0.50		ug/L			03/26/16 00:11	1
4-Chlorotoluene	ND		0.50		ug/L			03/26/16 00:11	1
Chlorodibromomethane	ND		0.50		ug/L			03/26/16 00:11	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/26/16 00:11	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/26/16 00:11	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/26/16 00:11	1
1,3-Dichloropropane	ND		1.0		ug/L			03/26/16 00:11	1
1,1-Dichloropropene	ND		0.50		ug/L			03/26/16 00:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/26/16 00:11	1
Ethylene Dibromide	ND		0.50		ug/L			03/26/16 00:11	1
Dibromomethane	ND		0.50		ug/L			03/26/16 00:11	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/26/16 00:11	1
1,1-Dichloroethane	ND		0.50		ug/L			03/26/16 00:11	1
1,2-Dichloroethane	**0.53**		0.50		ug/L			03/26/16 00:11	1
1,1-Dichloroethene	ND		0.50		ug/L			03/26/16 00:11	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/26/16 00:11	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/26/16 00:11	1
1,2-Dichloropropane	ND		0.50		ug/L			03/26/16 00:11	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/26/16 00:11	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/26/16 00:11	1
Ethylbenzene	ND		0.50		ug/L			03/26/16 00:11	1
Hexachlorobutadiene	ND		1.0		ug/L			03/26/16 00:11	1
2-Hexanone	ND		50		ug/L			03/26/16 00:11	1
Isopropylbenzene	ND		0.50		ug/L			03/26/16 00:11	1
4-Isopropyltoluene	ND		1.0		ug/L			03/26/16 00:11	1
Methylene Chloride	ND		5.0		ug/L			03/26/16 00:11	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			03/26/16 00:11	1
Naphthalene	**9.1**		1.0		ug/L			03/26/16 00:11	1
N-Propylbenzene	ND		1.0		ug/L			03/26/16 00:11	1
Styrene	ND		0.50		ug/L			03/26/16 00:11	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/26/16 00:11	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-71134-1

Client Sample ID: INF
Date Collected: 03/24/16 15:15
Date Received: 03/25/16 15:50

Lab Sample ID: 720-71134-2
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			03/26/16 00:11	1
Tetrachloroethene	ND		0.50		ug/L			03/26/16 00:11	1
Toluene	**7.4**		0.50		ug/L			03/26/16 00:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/26/16 00:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/26/16 00:11	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/26/16 00:11	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/26/16 00:11	1
Trichloroethene	ND		0.50		ug/L			03/26/16 00:11	1
Trichlorofluoromethane	ND		1.0		ug/L			03/26/16 00:11	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/26/16 00:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/26/16 00:11	1
1,2,4-Trimethylbenzene	**11**		0.50		ug/L			03/26/16 00:11	1
1,3,5-Trimethylbenzene	**23**		0.50		ug/L			03/26/16 00:11	1
Vinyl acetate	ND		10		ug/L			03/26/16 00:11	1
Vinyl chloride	ND		0.50		ug/L			03/26/16 00:11	1
Xylenes, Total	**140**		1.0		ug/L			03/26/16 00:11	1
2,2-Dichloropropane	ND		0.50		ug/L			03/26/16 00:11	1
Gasoline Range Organics (GRO) -C5-C12	**600**		50		ug/L			03/26/16 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*67 - 130*		*03/26/16 00:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 130*		*03/26/16 00:11*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*03/26/16 00:11*	*1*

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-71134-1

Client Sample ID: GAC
Date Collected: 03/24/16 15:15
Date Received: 03/25/16 15:50

Lab Sample ID: 720-71134-3
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			03/26/16 00:41	1
Acetone	ND		50		ug/L			03/26/16 00:41	1
Benzene	ND		0.50		ug/L			03/26/16 00:41	1
Dichlorobromomethane	ND		0.50		ug/L			03/26/16 00:41	1
Bromobenzene	ND		1.0		ug/L			03/26/16 00:41	1
Chlorobromomethane	ND		1.0		ug/L			03/26/16 00:41	1
Bromoform	ND		1.0		ug/L			03/26/16 00:41	1
Bromomethane	ND		1.0		ug/L			03/26/16 00:41	1
2-Butanone (MEK)	ND		50		ug/L			03/26/16 00:41	1
n-Butylbenzene	ND		1.0		ug/L			03/26/16 00:41	1
sec-Butylbenzene	ND		1.0		ug/L			03/26/16 00:41	1
tert-Butylbenzene	ND		1.0		ug/L			03/26/16 00:41	1
Carbon disulfide	ND		5.0		ug/L			03/26/16 00:41	1
Carbon tetrachloride	ND		0.50		ug/L			03/26/16 00:41	1
Chlorobenzene	ND		0.50		ug/L			03/26/16 00:41	1
Chloroethane	ND		1.0		ug/L			03/26/16 00:41	1
Chloroform	ND		1.0		ug/L			03/26/16 00:41	1
Chloromethane	ND		1.0		ug/L			03/26/16 00:41	1
2-Chlorotoluene	ND		0.50		ug/L			03/26/16 00:41	1
4-Chlorotoluene	ND		0.50		ug/L			03/26/16 00:41	1
Chlorodibromomethane	ND		0.50		ug/L			03/26/16 00:41	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/26/16 00:41	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/26/16 00:41	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/26/16 00:41	1
1,3-Dichloropropane	ND		1.0		ug/L			03/26/16 00:41	1
1,1-Dichloropropene	ND		0.50		ug/L			03/26/16 00:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/26/16 00:41	1
Ethylene Dibromide	ND		0.50		ug/L			03/26/16 00:41	1
Dibromomethane	ND		0.50		ug/L			03/26/16 00:41	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/26/16 00:41	1
1,1-Dichloroethane	ND		0.50		ug/L			03/26/16 00:41	1
1,2-Dichloroethane	ND		0.50		ug/L			03/26/16 00:41	1
1,1-Dichloroethene	ND		0.50		ug/L			03/26/16 00:41	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/26/16 00:41	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/26/16 00:41	1
1,2-Dichloropropane	ND		0.50		ug/L			03/26/16 00:41	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/26/16 00:41	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/26/16 00:41	1
Ethylbenzene	ND		0.50		ug/L			03/26/16 00:41	1
Hexachlorobutadiene	ND		1.0		ug/L			03/26/16 00:41	1
2-Hexanone	ND		50		ug/L			03/26/16 00:41	1
Isopropylbenzene	ND		0.50		ug/L			03/26/16 00:41	1
4-Isopropyltoluene	ND		1.0		ug/L			03/26/16 00:41	1
Methylene Chloride	ND		5.0		ug/L			03/26/16 00:41	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			03/26/16 00:41	1
Naphthalene	ND		1.0		ug/L			03/26/16 00:41	1
N-Propylbenzene	ND		1.0		ug/L			03/26/16 00:41	1
Styrene	ND		0.50		ug/L			03/26/16 00:41	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/26/16 00:41	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-71134-1

Client Sample ID: GAC
Date Collected: 03/24/16 15:15
Date Received: 03/25/16 15:50

Lab Sample ID: 720-71134-3
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			03/26/16 00:41	1
Tetrachloroethene	ND		0.50		ug/L			03/26/16 00:41	1
Toluene	ND		0.50		ug/L			03/26/16 00:41	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/26/16 00:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/26/16 00:41	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/26/16 00:41	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/26/16 00:41	1
Trichloroethene	ND		0.50		ug/L			03/26/16 00:41	1
Trichlorofluoromethane	ND		1.0		ug/L			03/26/16 00:41	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/26/16 00:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/26/16 00:41	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/26/16 00:41	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/26/16 00:41	1
Vinyl acetate	ND		10		ug/L			03/26/16 00:41	1
Vinyl chloride	ND		0.50		ug/L			03/26/16 00:41	1
Xylenes, Total	ND		1.0		ug/L			03/26/16 00:41	1
2,2-Dichloropropane	ND		0.50		ug/L			03/26/16 00:41	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/26/16 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*67 - 130*		*03/26/16 00:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*		*03/26/16 00:41*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*03/26/16 00:41*	*1*

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-71134-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(67-130)	(72-130)	(70-130)
720-71134-1	EFF	91	97	88
720-71134-1 MS	EFF	95	93	94
720-71134-1 MSD	EFF	93	93	92
720-71134-2	INF	94	93	91
720-71134-3	GAC	91	98	89
LCS 720-199408/5	Lab Control Sample	93	92	92
LCS 720-199408/7	Lab Control Sample	93	95	91
LCSD 720-199408/6	Lab Control Sample Dup	91	92	92
LCSD 720-199408/8	Lab Control Sample Dup	94	93	91
MB 720-199408/4	Method Blank	92	98	88

Surrogate Legend

BFB = 4-Bromofluorobenzene

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

TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 720-199408/4
Matrix: Water
Analysis Batch: 199408

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			03/25/16 19:19	1
Acetone	ND		50		ug/L			03/25/16 19:19	1
Benzene	ND		0.50		ug/L			03/25/16 19:19	1
Dichlorobromomethane	ND		0.50		ug/L			03/25/16 19:19	1
Bromobenzene	ND		1.0		ug/L			03/25/16 19:19	1
Chlorobromomethane	ND		1.0		ug/L			03/25/16 19:19	1
Bromoform	ND		1.0		ug/L			03/25/16 19:19	1
Bromomethane	ND		1.0		ug/L			03/25/16 19:19	1
2-Butanone (MEK)	ND		50		ug/L			03/25/16 19:19	1
n-Butylbenzene	ND		1.0		ug/L			03/25/16 19:19	1
sec-Butylbenzene	ND		1.0		ug/L			03/25/16 19:19	1
tert-Butylbenzene	ND		1.0		ug/L			03/25/16 19:19	1
Carbon disulfide	ND		5.0		ug/L			03/25/16 19:19	1
Carbon tetrachloride	ND		0.50		ug/L			03/25/16 19:19	1
Chlorobenzene	ND		0.50		ug/L			03/25/16 19:19	1
Chloroethane	ND		1.0		ug/L			03/25/16 19:19	1
Chloroform	ND		1.0		ug/L			03/25/16 19:19	1
Chloromethane	ND		1.0		ug/L			03/25/16 19:19	1
2-Chlorotoluene	ND		0.50		ug/L			03/25/16 19:19	1
4-Chlorotoluene	ND		0.50		ug/L			03/25/16 19:19	1
Chlorodibromomethane	ND		0.50		ug/L			03/25/16 19:19	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/25/16 19:19	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/25/16 19:19	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/25/16 19:19	1
1,3-Dichloropropane	ND		1.0		ug/L			03/25/16 19:19	1
1,1-Dichloropropene	ND		0.50		ug/L			03/25/16 19:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			03/25/16 19:19	1
Ethylene Dibromide	ND		0.50		ug/L			03/25/16 19:19	1
Dibromomethane	ND		0.50		ug/L			03/25/16 19:19	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/25/16 19:19	1
1,1-Dichloroethane	ND		0.50		ug/L			03/25/16 19:19	1
1,2-Dichloroethane	ND		0.50		ug/L			03/25/16 19:19	1
1,1-Dichloroethene	ND		0.50		ug/L			03/25/16 19:19	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/25/16 19:19	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/25/16 19:19	1
1,2-Dichloropropane	ND		0.50		ug/L			03/25/16 19:19	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/25/16 19:19	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/25/16 19:19	1
Ethylbenzene	ND		0.50		ug/L			03/25/16 19:19	1
Hexachlorobutadiene	ND		1.0		ug/L			03/25/16 19:19	1
2-Hexanone	ND		50		ug/L			03/25/16 19:19	1
Isopropylbenzene	ND		0.50		ug/L			03/25/16 19:19	1
4-Isopropyltoluene	ND		1.0		ug/L			03/25/16 19:19	1
Methylene Chloride	ND		5.0		ug/L			03/25/16 19:19	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			03/25/16 19:19	1
Naphthalene	ND		1.0		ug/L			03/25/16 19:19	1
N-Propylbenzene	ND		1.0		ug/L			03/25/16 19:19	1
Styrene	ND		0.50		ug/L			03/25/16 19:19	1

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

Lab Sample ID: MB 720-199408/4
Matrix: Water
Analysis Batch: 199408

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			03/25/16 19:19	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/25/16 19:19	1
Tetrachloroethene	ND		0.50		ug/L			03/25/16 19:19	1
Toluene	ND		0.50		ug/L			03/25/16 19:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			03/25/16 19:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/25/16 19:19	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/25/16 19:19	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/25/16 19:19	1
Trichloroethene	ND		0.50		ug/L			03/25/16 19:19	1
Trichlorofluoromethane	ND		1.0		ug/L			03/25/16 19:19	1
1,2,3-Trichloropropane	ND		0.50		ug/L			03/25/16 19:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/25/16 19:19	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			03/25/16 19:19	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			03/25/16 19:19	1
Vinyl acetate	ND		10		ug/L			03/25/16 19:19	1
Vinyl chloride	ND		0.50		ug/L			03/25/16 19:19	1
Xylenes, Total	ND		1.0		ug/L			03/25/16 19:19	1
2,2-Dichloropropane	ND		0.50		ug/L			03/25/16 19:19	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/25/16 19:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*67 - 130*		*03/25/16 19:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*		*03/25/16 19:19*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*03/25/16 19:19*	*1*

Lab Sample ID: LCS 720-199408/5
Matrix: Water
Analysis Batch: 199408

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	25.5		ug/L		102	62 - 130
Acetone	125	98.0		ug/L		78	26 - 180
Benzene	25.0	24.6		ug/L		98	79 - 130
Dichlorobromomethane	25.0	25.9		ug/L		104	70 - 130
Bromobenzene	25.0	24.7		ug/L		99	70 - 130
Chlorobromomethane	25.0	24.4		ug/L		97	70 - 130
Bromoform	25.0	22.0		ug/L		88	68 - 136
Bromomethane	25.0	25.4		ug/L		102	43 - 151
2-Butanone (MEK)	125	100		ug/L		80	54 - 130
n-Butylbenzene	25.0	25.2		ug/L		101	70 - 142
sec-Butylbenzene	25.0	25.2		ug/L		101	70 - 134
tert-Butylbenzene	25.0	25.1		ug/L		101	70 - 135
Carbon disulfide	25.0	23.5		ug/L		94	58 - 130
Carbon tetrachloride	25.0	25.7		ug/L		103	70 - 146
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130
Chloroethane	25.0	24.5		ug/L		98	62 - 138
Chloroform	25.0	25.1		ug/L		100	70 - 130

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

Lab Sample ID: LCS 720-199408/5
Matrix: Water
Analysis Batch: 199408

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	26.0		ug/L		104	52 - 175
2-Chlorotoluene	25.0	25.5		ug/L		102	70 - 130
4-Chlorotoluene	25.0	25.5		ug/L		102	70 - 130
Chlorodibromomethane	25.0	24.0		ug/L		96	70 - 145
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	25.2		ug/L		101	70 - 130
1,1-Dichloropropene	25.0	24.3		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.9		ug/L		92	70 - 136
Ethylene Dibromide	25.0	25.6		ug/L		103	70 - 130
Dibromomethane	25.0	25.0		ug/L		100	70 - 130
Dichlorodifluoromethane	25.0	30.0		ug/L		120	32 - 158
1,1-Dichloroethane	25.0	24.5		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	25.5		ug/L		102	61 - 132
1,1-Dichloroethene	25.0	22.1		ug/L		88	64 - 128
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	24.1		ug/L		97	68 - 130
1,2-Dichloropropane	25.0	26.3		ug/L		105	70 - 130
cis-1,3-Dichloropropene	25.0	26.1		ug/L		105	70 - 130
trans-1,3-Dichloropropene	25.0	25.4		ug/L		102	70 - 140
Ethylbenzene	25.0	25.0		ug/L		100	80 - 120
Hexachlorobutadiene	25.0	22.6		ug/L		91	70 - 130
2-Hexanone	125	102		ug/L		82	60 - 164
Isopropylbenzene	25.0	25.6		ug/L		102	70 - 130
4-Isopropyltoluene	25.0	25.1		ug/L		100	70 - 130
Methylene Chloride	25.0	23.6		ug/L		94	70 - 147
4-Methyl-2-pentanone (MIBK)	125	105		ug/L		84	58 - 130
Naphthalene	25.0	22.2		ug/L		89	70 - 130
N-Propylbenzene	25.0	25.7		ug/L		103	70 - 130
Styrene	25.0	26.2		ug/L		105	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.1		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.4		ug/L		98	70 - 130
Tetrachloroethene	25.0	23.5		ug/L		94	70 - 130
Toluene	25.0	24.9		ug/L		100	78 - 120
1,2,3-Trichlorobenzene	25.0	22.3		ug/L		89	70 - 130
1,2,4-Trichlorobenzene	25.0	23.6		ug/L		95	70 - 130
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	70 - 130
1,1,2-Trichloroethane	25.0	25.1		ug/L		100	70 - 130
Trichloroethene	25.0	23.8		ug/L		95	70 - 130
Trichlorofluoromethane	25.0	25.9		ug/L		103	66 - 132
1,2,3-Trichloropropane	25.0	24.7		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.7		ug/L		91	42 - 162
1,2,4-Trimethylbenzene	25.0	25.8		ug/L		103	70 - 132
1,3,5-Trimethylbenzene	25.0	25.8		ug/L		103	70 - 130
Vinyl acetate	25.0	23.0		ug/L		92	43 - 163
Vinyl chloride	25.0	23.2		ug/L		93	54 - 135

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

Lab Sample ID: LCS 720-199408/5
Matrix: Water
Analysis Batch: 199408

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	70 - 142
o-Xylene	25.0	24.9		ug/L		100	70 - 130
2,2-Dichloropropane	25.0	25.1		ug/L		100	70 - 140

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

Lab Sample ID: LCS 720-199408/7
Matrix: Water
Analysis Batch: 199408

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	514		ug/L		103	71 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 130*
Toluene-d8 (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 720-199408/6
Matrix: Water
Analysis Batch: 199408

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	27.1		ug/L		108	62 - 130	6	20
Acetone	125	105		ug/L		84	26 - 180	7	30
Benzene	25.0	25.0		ug/L		100	79 - 130	1	20
Dichlorobromomethane	25.0	26.7		ug/L		107	70 - 130	3	20
Bromobenzene	25.0	25.2		ug/L		101	70 - 130	2	20
Chlorobromomethane	25.0	25.1		ug/L		101	70 - 130	3	20
Bromoform	25.0	23.1		ug/L		92	68 - 136	5	20
Bromomethane	25.0	25.6		ug/L		102	43 - 151	1	20
2-Butanone (MEK)	125	111		ug/L		88	54 - 130	10	20
n-Butylbenzene	25.0	24.7		ug/L		99	70 - 142	2	20
sec-Butylbenzene	25.0	25.2		ug/L		101	70 - 134	0	20
tert-Butylbenzene	25.0	24.9		ug/L		100	70 - 135	1	20
Carbon disulfide	25.0	23.5		ug/L		94	58 - 130	0	20
Carbon tetrachloride	25.0	25.8		ug/L		103	70 - 146	1	20
Chlorobenzene	25.0	24.6		ug/L		98	70 - 130	0	20
Chloroethane	25.0	24.7		ug/L		99	62 - 138	1	20
Chloroform	25.0	25.5		ug/L		102	70 - 130	1	20
Chloromethane	25.0	25.7		ug/L		103	52 - 175	1	20
2-Chlorotoluene	25.0	25.6		ug/L		102	70 - 130	0	20
4-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130	1	20
Chlorodibromomethane	25.0	25.4		ug/L		102	70 - 145	5	20

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

Lab Sample ID: LCSD 720-199408/6
Matrix: Water
Analysis Batch: 199408

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	24.9		ug/L		100	70 - 130	2	20
1,3-Dichlorobenzene			25.0	24.4		ug/L		98	70 - 130	2	20
1,4-Dichlorobenzene			25.0	24.3		ug/L		97	70 - 130	1	20
1,3-Dichloropropane			25.0	26.2		ug/L		105	70 - 130	4	20
1,1-Dichloropropene			25.0	24.5		ug/L		98	70 - 130	1	20
1,2-Dibromo-3-Chloropropane			25.0	24.5		ug/L		98	70 - 136	7	20
Ethylene Dibromide			25.0	27.3		ug/L		109	70 - 130	6	20
Dibromomethane			25.0	26.2		ug/L		105	70 - 130	5	20
Dichlorodifluoromethane			25.0	29.4		ug/L		118	32 - 158	2	20
1,1-Dichloroethane			25.0	24.8		ug/L		99	70 - 130	2	20
1,2-Dichloroethane			25.0	26.5		ug/L		106	61 - 132	4	20
1,1-Dichloroethene			25.0	22.4		ug/L		89	64 - 128	1	20
cis-1,2-Dichloroethene			25.0	25.8		ug/L		103	70 - 130	2	20
trans-1,2-Dichloroethene			25.0	24.4		ug/L		98	68 - 130	1	20
1,2-Dichloropropane			25.0	26.6		ug/L		107	70 - 130	1	20
cis-1,3-Dichloropropene			25.0	27.1		ug/L		108	70 - 130	3	20
trans-1,3-Dichloropropene			25.0	26.6		ug/L		106	70 - 140	4	20
Ethylbenzene			25.0	25.0		ug/L		100	80 - 120	0	20
Hexachlorobutadiene			25.0	22.1		ug/L		88	70 - 130	2	20
2-Hexanone			125	115		ug/L		92	60 - 164	12	20
Isopropylbenzene			25.0	25.0		ug/L		100	70 - 130	2	20
4-Isopropyltoluene			25.0	25.0		ug/L		100	70 - 130	0	20
Methylene Chloride			25.0	24.0		ug/L		96	70 - 147	2	20
4-Methyl-2-pentanone (MIBK)			125	116		ug/L		93	58 - 130	10	20
Naphthalene			25.0	23.4		ug/L		94	70 - 130	6	20
N-Propylbenzene			25.0	25.8		ug/L		103	70 - 130	0	20
Styrene			25.0	26.2		ug/L		105	70 - 130	0	20
1,1,1,2-Tetrachloroethane			25.0	25.2		ug/L		101	70 - 130	0	20
1,1,2,2-Tetrachloroethane			25.0	26.2		ug/L		105	70 - 130	7	20
Tetrachloroethene			25.0	23.5		ug/L		94	70 - 130	0	20
Toluene			25.0	24.6		ug/L		98	78 - 120	1	20
1,2,3-Trichlorobenzene			25.0	22.6		ug/L		90	70 - 130	1	20
1,2,4-Trichlorobenzene			25.0	23.4		ug/L		94	70 - 130	1	20
1,1,1-Trichloroethane			25.0	25.7		ug/L		103	70 - 130	1	20
1,1,2-Trichloroethane			25.0	26.5		ug/L		106	70 - 130	6	20
Trichloroethene			25.0	24.2		ug/L		97	70 - 130	2	20
Trichlorofluoromethane			25.0	26.0		ug/L		104	66 - 132	1	20
1,2,3-Trichloropropane			25.0	26.4		ug/L		106	70 - 130	7	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	22.6		ug/L		91	42 - 162	0	20
1,2,4-Trimethylbenzene			25.0	25.9		ug/L		104	70 - 132	0	20
1,3,5-Trimethylbenzene			25.0	25.7		ug/L		103	70 - 130	0	20
Vinyl acetate			25.0	23.8		ug/L		95	43 - 163	3	20
Vinyl chloride			25.0	22.6		ug/L		90	54 - 135	2	20
m-Xylene & p-Xylene			25.0	25.1		ug/L		100	70 - 142	0	20
o-Xylene			25.0	24.8		ug/L		99	70 - 130	1	20
2,2-Dichloropropane			25.0	24.4		ug/L		98	70 - 140	3	20

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

Lab Sample ID: LCSD 720-199408/6
Matrix: Water
Analysis Batch: 199408

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)	*92*		*72 - 130*
Toluene-d8 (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 720-199408/8
Matrix: Water
Analysis Batch: 199408

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	524		ug/L		105	71 - 125	2	20

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

Lab Sample ID: 720-71134-1 MS
Matrix: Water
Analysis Batch: 199408

Client Sample ID: EFF
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	26.6		ug/L		106	60 - 138
Acetone	ND		125	87.5		ug/L		70	60 - 140
Benzene	ND		25.0	24.9		ug/L		100	60 - 140
Dichlorobromomethane	ND		25.0	26.8		ug/L		107	60 - 140
Bromobenzene	ND		25.0	24.9		ug/L		100	60 - 140
Chlorobromomethane	ND		25.0	25.1		ug/L		100	60 - 140
Bromoform	ND		25.0	25.6		ug/L		103	56 - 140
Bromomethane	ND		25.0	25.0		ug/L		100	23 - 140
2-Butanone (MEK)	ND		125	103		ug/L		82	60 - 140
n-Butylbenzene	ND		25.0	24.7		ug/L		99	60 - 140
sec-Butylbenzene	ND		25.0	24.8		ug/L		99	60 - 140
tert-Butylbenzene	ND		25.0	24.6		ug/L		98	60 - 140
Carbon disulfide	ND		25.0	23.5		ug/L		94	38 - 140
Carbon tetrachloride	ND		25.0	26.1		ug/L		104	60 - 140
Chlorobenzene	ND		25.0	24.8		ug/L		99	60 - 140
Chloroethane	ND		25.0	24.6		ug/L		98	51 - 140
Chloroform	ND		25.0	25.3		ug/L		101	60 - 140
Chloromethane	ND		25.0	25.3		ug/L		101	52 - 140
2-Chlorotoluene	ND		25.0	25.3		ug/L		101	60 - 140
4-Chlorotoluene	ND		25.0	25.4		ug/L		102	60 - 140
Chlorodibromomethane	ND		25.0	26.3		ug/L		105	60 - 140
1,2-Dichlorobenzene	ND		25.0	24.6		ug/L		98	60 - 140
1,3-Dichlorobenzene	ND		25.0	24.3		ug/L		97	60 - 140
1,4-Dichlorobenzene	ND		25.0	24.4		ug/L		98	60 - 140
1,3-Dichloropropane	ND		25.0	26.2		ug/L		105	60 - 140
1,1-Dichloropropene	ND		25.0	24.4		ug/L		97	60 - 140

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

Lab Sample ID: 720-71134-1 MS
Matrix: Water
Analysis Batch: 199408

Client Sample ID: EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		25.0	23.7		ug/L		95	60 - 140
Ethylene Dibromide	ND		25.0	27.7		ug/L		111	60 - 140
Dibromomethane	ND		25.0	25.8		ug/L		103	60 - 140
Dichlorodifluoromethane	ND		25.0	29.2		ug/L		117	38 - 140
1,1-Dichloroethane	ND		25.0	24.9		ug/L		100	60 - 140
1,2-Dichloroethane	ND		25.0	26.5		ug/L		106	60 - 140
1,1-Dichloroethene	ND		25.0	21.7		ug/L		87	60 - 140
cis-1,2-Dichloroethene	ND		25.0	26.0		ug/L		104	60 - 140
trans-1,2-Dichloroethene	ND		25.0	24.5		ug/L		98	60 - 140
1,2-Dichloropropane	ND		25.0	26.8		ug/L		107	60 - 140
cis-1,3-Dichloropropene	ND		25.0	27.4		ug/L		110	60 - 140
trans-1,3-Dichloropropene	ND		25.0	27.2		ug/L		109	60 - 140
Ethylbenzene	ND		25.0	24.9		ug/L		99	60 - 140
Hexachlorobutadiene	ND		25.0	22.8		ug/L		91	60 - 140
2-Hexanone	ND		125	107		ug/L		86	60 - 140
Isopropylbenzene	ND		25.0	25.5		ug/L		102	60 - 140
4-Isopropyltoluene	ND		25.0	24.8		ug/L		99	60 - 140
Methylene Chloride	ND		25.0	23.9		ug/L		96	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	110		ug/L		88	58 - 130
Naphthalene	ND		25.0	22.7		ug/L		91	56 - 140
N-Propylbenzene	ND		25.0	25.5		ug/L		102	60 - 140
Styrene	ND		25.0	25.6		ug/L		102	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	25.8		ug/L		103	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	25.2		ug/L		101	60 - 140
Tetrachloroethene	ND		25.0	23.5		ug/L		94	60 - 140
Toluene	ND		25.0	24.3		ug/L		97	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	22.9		ug/L		92	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	23.9		ug/L		96	60 - 140
1,1,1-Trichloroethane	ND		25.0	26.2		ug/L		105	60 - 140
1,1,2-Trichloroethane	ND		25.0	25.9		ug/L		104	60 - 140
Trichloroethene	ND		25.0	24.0		ug/L		96	60 - 140
Trichlorofluoromethane	ND		25.0	26.7		ug/L		107	60 - 140
1,2,3-Trichloropropane	ND		25.0	25.1		ug/L		100	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	23.2		ug/L		93	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	25.6		ug/L		103	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	25.3		ug/L		101	60 - 140
Vinyl acetate	ND		25.0	22.8		ug/L		91	40 - 140
Vinyl chloride	ND		25.0	23.0		ug/L		92	58 - 140
m-Xylene & p-Xylene	ND		25.0	25.0		ug/L		100	60 - 140
o-Xylene	ND		25.0	24.9		ug/L		100	60 - 140
2,2-Dichloropropane	ND		25.0	24.6		ug/L		98	60 - 140

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

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

Lab Sample ID: 720-71134-1 MSD
Matrix: Water
Analysis Batch: 199408

Client Sample ID: EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		25.0	26.4		ug/L		106	60 - 138	1	20
Acetone	ND		125	93.4		ug/L		75	60 - 140	7	20
Benzene	ND		25.0	24.7		ug/L		99	60 - 140	1	20
Dichlorobromomethane	ND		25.0	27.0		ug/L		108	60 - 140	0	20
Bromobenzene	ND		25.0	25.0		ug/L		100	60 - 140	0	20
Chlorobromomethane	ND		25.0	24.8		ug/L		99	60 - 140	1	20
Bromoform	ND		25.0	25.1		ug/L		100	56 - 140	2	20
Bromomethane	ND		25.0	24.1		ug/L		96	23 - 140	4	20
2-Butanone (MEK)	ND		125	102		ug/L		81	60 - 140	1	20
n-Butylbenzene	ND		25.0	24.6		ug/L		98	60 - 140	1	20
sec-Butylbenzene	ND		25.0	24.8		ug/L		99	60 - 140	0	20
tert-Butylbenzene	ND		25.0	24.8		ug/L		99	60 - 140	1	20
Carbon disulfide	ND		25.0	22.9		ug/L		91	38 - 140	3	20
Carbon tetrachloride	ND		25.0	25.7		ug/L		103	60 - 140	2	20
Chlorobenzene	ND		25.0	24.5		ug/L		98	60 - 140	1	20
Chloroethane	ND		25.0	24.0		ug/L		96	51 - 140	2	20
Chloroform	ND		25.0	25.2		ug/L		101	60 - 140	1	20
Chloromethane	ND		25.0	23.8		ug/L		95	52 - 140	6	20
2-Chlorotoluene	ND		25.0	25.3		ug/L		101	60 - 140	0	20
4-Chlorotoluene	ND		25.0	25.4		ug/L		102	60 - 140	0	20
Chlorodibromomethane	ND		25.0	25.6		ug/L		102	60 - 140	3	20
1,2-Dichlorobenzene	ND		25.0	24.7		ug/L		99	60 - 140	1	20
1,3-Dichlorobenzene	ND		25.0	24.2		ug/L		97	60 - 140	0	20
1,4-Dichlorobenzene	ND		25.0	24.5		ug/L		98	60 - 140	0	20
1,3-Dichloropropane	ND		25.0	25.8		ug/L		103	60 - 140	2	20
1,1-Dichloropropene	ND		25.0	23.9		ug/L		96	60 - 140	2	20
1,2-Dibromo-3-Chloropropane	ND		25.0	24.4		ug/L		98	60 - 140	3	20
Ethylene Dibromide	ND		25.0	26.7		ug/L		107	60 - 140	4	20
Dibromomethane	ND		25.0	26.0		ug/L		104	60 - 140	1	20
Dichlorodifluoromethane	ND		25.0	28.3		ug/L		113	38 - 140	3	20
1,1-Dichloroethane	ND		25.0	24.7		ug/L		99	60 - 140	1	20
1,2-Dichloroethane	ND		25.0	26.1		ug/L		104	60 - 140	2	20
1,1-Dichloroethene	ND		25.0	21.5		ug/L		86	60 - 140	1	20
cis-1,2-Dichloroethene	ND		25.0	25.6		ug/L		102	60 - 140	2	20
trans-1,2-Dichloroethene	ND		25.0	23.9		ug/L		95	60 - 140	3	20
1,2-Dichloropropane	ND		25.0	26.7		ug/L		107	60 - 140	1	20
cis-1,3-Dichloropropene	ND		25.0	27.2		ug/L		109	60 - 140	1	20
trans-1,3-Dichloropropene	ND		25.0	26.5		ug/L		106	60 - 140	2	20
Ethylbenzene	ND		25.0	24.6		ug/L		99	60 - 140	1	20
Hexachlorobutadiene	ND		25.0	21.8		ug/L		87	60 - 140	4	20
2-Hexanone	ND		125	104		ug/L		83	60 - 140	3	20
Isopropylbenzene	ND		25.0	24.7		ug/L		99	60 - 140	3	20
4-Isopropyltoluene	ND		25.0	24.8		ug/L		99	60 - 140	0	20
Methylene Chloride	ND		25.0	23.6		ug/L		94	40 - 140	1	20
4-Methyl-2-pentanone (MIBK)	ND		125	109		ug/L		87	58 - 130	1	20
Naphthalene	ND		25.0	22.6		ug/L		90	56 - 140	0	20
N-Propylbenzene	ND		25.0	25.4		ug/L		102	60 - 140	0	20
Styrene	ND		25.0	24.9		ug/L		100	60 - 140	3	20

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

Lab Sample ID: 720-71134-1 MSD
Matrix: Water
Analysis Batch: 199408

Client Sample ID: EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	25.6		ug/L		102	60 - 140	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	25.3		ug/L		101	60 - 140	0	20
Tetrachloroethene	ND		25.0	23.0		ug/L		92	60 - 140	2	20
Toluene	ND		25.0	24.4		ug/L		98	60 - 140	1	20
1,2,3-Trichlorobenzene	ND		25.0	22.7		ug/L		91	60 - 140	1	20
1,2,4-Trichlorobenzene	ND		25.0	23.5		ug/L		94	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	25.9		ug/L		104	60 - 140	1	20
1,1,2-Trichloroethane	ND		25.0	26.0		ug/L		104	60 - 140	0	20
Trichloroethene	ND		25.0	23.7		ug/L		95	60 - 140	1	20
Trichlorofluoromethane	ND		25.0	26.0		ug/L		104	60 - 140	3	20
1,2,3-Trichloropropane	ND		25.0	25.3		ug/L		101	60 - 140	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.0		ug/L		88	60 - 140	5	20
1,2,4-Trimethylbenzene	ND		25.0	25.4		ug/L		101	60 - 140	1	20
1,3,5-Trimethylbenzene	ND		25.0	25.3		ug/L		101	60 - 140	0	20
Vinyl acetate	ND		25.0	22.0		ug/L		88	40 - 140	3	20
Vinyl chloride	ND		25.0	22.4		ug/L		90	58 - 140	3	20
m-Xylene & p-Xylene	ND		25.0	24.8		ug/L		99	60 - 140	1	20
o-Xylene	ND		25.0	24.4		ug/L		98	60 - 140	2	20
2,2-Dichloropropane	ND		25.0	24.3		ug/L		97	60 - 140	1	20

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

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-71134-1

GC/MS VOA

Analysis Batch: 199408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-71134-1	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-71134-1 MS	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-71134-1 MSD	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-71134-2	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-71134-3	GAC	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-199408/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-199408/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-199408/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-199408/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-199408/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-71134-1

Client Sample ID: EFF
Lab Sample ID: 720-71134-1
Date Collected: 03/24/16 15:15
Matrix: Water
Date Received: 03/25/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	199408	03/25/16 22:44	LPL	TAL PLS

Client Sample ID: INF
Lab Sample ID: 720-71134-2
Date Collected: 03/24/16 15:15
Matrix: Water
Date Received: 03/25/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	199408	03/26/16 00:11	LPL	TAL PLS

Client Sample ID: GAC
Lab Sample ID: 720-71134-3
Date Collected: 03/24/16 15:15
Matrix: Water
Date Received: 03/25/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	199408	03/26/16 00:41	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: 720-71134-1

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	01-31-17

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-71134-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	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: 720-71134-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-71134-1	EFF	Water	03/24/16 15:15	03/25/16 15:50
720-71134-2	INF	Water	03/24/16 15:15	03/25/16 15:50
720-71134-3	GAC	Water	03/24/16 15:15	03/25/16 15:50

720-71134

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756

Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 167533

Date 3/24/16 Page 1 of 1

3/29/2016

Report To

Attn: Peter Sims

Company: Ninyo & Moore

Address: 1956 Webster, ste 400, Oakland

Email: PSims@ninyoandmoore.com

Bill To: D. Sims

Sampled By: C Dorsen

Attn: P. Sims

Phone: 510 343-3002

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B ☐ EPA 8015	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
GFF	3/24	1515	GW	HCl	X																					3
INF	3/24	1515	↓	HCl	X																					3
GAC	3/24	1515	↓	HCl	X																					3

Project Info

Project Name/ #: Chevron 401894 0004

PO#:

Credit Card Y/N:

Sample Receipt

of Containers:

Head Space:

Temp: 0.9 °C

If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF

Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: 1415 Time	Signature: 1650 Time	Signature: Time
Printed Name: Chris Dorsen 3/25/16 Date	Printed Name: Sam Bonaventura 3/25/16 Date	Printed Name: Date
Company: Ninyo and Moore	Company: TA	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: 1415 Time	Signature: 1550 Time	Signature: Time
Printed Name: Sam Bonaventura 3/25/16 Date	Printed Name: Dennis Arana 3/25/16 Date	Printed Name: Date
Company: TA	Company: TA	Company:

720-71134 Chain of Custody

Rev.10/2012

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-71134-1

Login Number: 71134
List Number: 1
Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

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

APPENDIX D

GROUNDWATER MONITORING DATA SHEETS

MONITORING WELL SAMPLING FORM	Date: 2/2/16

Project Name: Chun	Client: Lily A. Chun Trust 1991	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone: 510. 3433000	
City/State: Alameda, CA	Technician Gauging/Sampling: ERD	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-4R	Depth to Liquid (DL): 8.65
Casing Material: PVC	Depth to Water (DW1): 8.65
Diameter: 2"	Product Thickness (PT=DW1-DL): 0
Well Head Condition: good	Total Well Depth (TD): 24.89
Well Box Condition: good	Total head (TH=TD-DW1): 16.24
Purge Method: P. pump	Casing Volume (TH*Factor): 2.6

Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft.
½" = 0.01; ¾" = 0.023 7.8 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1007	2.5 gal	17.98	429	6.74	4.25	32	88.4	
1020	5 gal	18.04	434	6.78	4.30	14	5.48	
1033	7.5 gal	18.39	458	6.84	4.14	-15	3.40	

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
1035	MW-4R										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: 2/2/14

Project Name: Chun	Client: Lily A. Chun Trust 1991	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone: 510. 343. 3000	
City/State: Alameda, CA	Technician Gauging/Sampling: GRD	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-5R	Depth to Liquid (DL): ~~MW-5R~~ 6.62
Casing Material: PVC	Depth to Water (DW1): 6.62
Diameter: 2"	Product Thickness (PT=DW1-DL): ~~23.50~~
Well Head Condition: good	Total Well Depth (TD): 23.50
Well Box Condition: good	Total head (TH=TD-DW1): 16.88
Purge Method: pump	Casing Volume (TH*Factor): 2.7 X3
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	8.10 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1100	2.75	18.70	5910	6.97	5.68	72	27.2	Clear water
1115	5.5	18.16	7104	7.13	3.73	83	27.5	Clear water
1129	8.25	18.05	7104	7.12	4.91	57	34.1	Some sediments came out

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
1130	MW-5R										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 2/2/16

Project Name: Chun	Client: Lily A. Chun Trust 1991	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone: 510. 343.3000	
City/State: Alameda, CA	Technician Gauging/Sampling: GRD	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-6R	Depth to Liquid (DL): 6.05
Casing Material: PVC	Depth to Water (DW1): 6.05
Diameter: 2"	Product Thickness (PT=DW1-DL): ~~5~~ 0
Well Head Condition: good	Total Well Depth (TD): 24.94
Well Box Condition: good	Total head (TH=TD-DW1): 18.89
Purge Method: B. Pump	Casing Volume (TH*Factor): 3.0
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	9 gal wd

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1150	3 gal	18.19	1130	5.34	3.52	194	34.1	
1202	6 gal	18.04	1180	5.33	3.52	192	1.24	clear water, no odor
1215	9 gal	18.10	1180	5.31	3.44	195	2.91	

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
1220	MW-6R										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: 2/2/14

Project Name: Chun	Client: Lily A. Chun Trust 1991	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone: 510-343-3000	
City/State: Alameda, CA	Technician Gauging/Sampling: CWD	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-7R	Depth to Liquid (DL): 6.27
Casing Material: PVC	Depth to Water (DW1): 6.27
Diameter: 2"	Product Thickness (PT=DW1-DL): 0
Well Head Condition: good	Total Well Depth (TD): 24.96
Well Box Condition: good	Total head (TH=TD-DW1): 18.69
Purge Method: P. Pump	Casing Volume (TH*Factor): 2.99
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	9 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1233	3gal	18.47	976	5.74	4.11	256	39.4	Slight foam on water, slight odor
1243	6gal	18.33	754	5.71	4.19	256	43.0	ph=6.32
1255	9gal	17.96	737	6.37	3.27	170	42.0	Slightly cloudy, faint 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-g	TPH-d	BTEX /MTBE	8260	8010	OTHER
1255	MW-7R										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: 2/2/14

Project Name: Chun	Client: Lily A. Chun Trust 1991	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone: 510. 343.3000	
City/State: Alameda, CA	Technician Gauging/Sampling: E. Diksen	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-8	Depth to Liquid (DL): 7.78
Casing Material: PVC	Depth to Water (DW1): 7.98
Diameter: 2"	Product Thickness (PT=DW1-DL): 0
Well Head Condition: good	Total Well Depth (TD): 13.89
Well Box Condition: good	Total head (TH=TD-DW1): 6.11
Purge Method: bailer	Casing Volume (TH*Factor): 0.9774
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	~3 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1516	1 gal	17.31	313	6.91	6.11	50	122	clear 1st, then cloudy
1517	2 gal	17.15	253	7.10	5.66	-111	683	cloudy
1520	3 gal	18.01	402	6.93	5.99	-117	453	" "

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100
1525		

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER
1525	MW-8										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 2/4/14

Project Name: Chun	Client: Lily A. Chun Trust 1991	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone: 510. 343.3000	
City/State: Alameda, CA	Technician Gauging/Sampling: GRD	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-9	Depth to Liquid (DL): 6.05
Casing Material: PVC	Depth to Water (DW1): ~~6.05~~ 6.05
Diameter: 2"	Product Thickness (PT=DW1-DL): -
Well Head Condition: good	Total Well Depth (TD): 14.66
Well Box Condition: good	Total head (TH=TD-DW1): 8.61
Purge Method: bailer	Casing Volume (TH*Factor): 1.4
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	~4.2 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1404	1.5g	18.09	378	7.48	20.13	102	283	
1407	3g	18.31	279	7.03	6.608	134	632	
1410	4.5g	18.23	364	7.08	7.37	135	899	

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
1415	MW-9										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: 2/2/14

Project Name: Chun	Client: Lily A. Chun Trust 1991	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone: ~~[illegible]~~ 510.343.3000	
City/State: Alameda, CA	Technician Gauging/Sampling: CMD	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-10	Depth to Liquid (DL): 6.22
Casing Material: PVC	Depth to Water (DW1): ~~[illegible]~~ 6.22
Diameter: 2"	Product Thickness (PT=DW1-DL): ~~0~~
Well Head Condition: good	Total Well Depth (TD): 12.81
Well Box Condition: good	Total head (TH=TD-DW1): 6.59
Purge Method: bailer	Casing Volume (TH*Factor): 1.05
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	3.2 gal

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1443	1 gal	17.97	291	7.00	6.64	136	140	
1445	2 gal	17.28	172	6.~~94~~	6.26	128	834	
1448	3 gal	17.41	234	6.99	6.08	131	622	

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
1450	MW-10										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: 2/3/16

Project Name: Chun	Client: Lily A. Chun Trust 1991	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone: ERD	
City/State: Alameda, CA	Technician Gauging/Sampling: 510.343.7500	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-11R	Depth to Liquid (DL): 7.95
Casing Material: PVC	Depth to Water (DW1): 7.95
Diameter: 2"	Product Thickness (PT=DW1-DL): 0
Well Head Condition: good	Total Well Depth (TD): 23.61
Well Box Condition: good	Total head (TH=TD-DW1): 15.66
Purge Method: P. Pump	Casing Volume (TH*Factor): 2.5

Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft.
½" = 0.01; ¾" = 0.023 7.5 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1340	2.5gal	17.33	276	6.82	7.73	-70	153	fairly clear GW
1354	5gal	17.44	277	6.80	5.74	-45	31.0	
1406	7.5gal	17.02	293	6.75	3.67	-58	7.88	

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-11R										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 2/3/16

Project Name: Chun	Client: Lily A. Chun Trust 1991	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone: 510. 343 3000	
City/State: Alameda, CA	Technician Gauging/Sampling: GM	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-12	Depth to Liquid (DL): 8.14
Casing Material: PVC	Depth to Water (DW1): 8.14
Diameter: 2"	Product Thickness (PT=DW1-DL): 0
Well Head Condition: good	Total Well Depth (TD): 24.71
Well Box Condition: good	Total head (TH=TD-DW1): 16.17
Purge Method: P. pump	Casing Volume (TH*Factor): 2.6
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	7.8 gal/purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1437	2.5gal	17.90	404	6.70	3.34	-24	60.4	
1449	5gal	18.42	533	6.66	3.38	17	4.87	
1502	7.5gal	18.59	523	6.68	3.41	3	0.93	

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
1505	MW-12										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 2/3/16

Project Name: Chun	Client: Lily A. Chun Trust 1991	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone: 510 . 343 3000	
City/State: Alameda, CA	Technician Gauging/Sampling: ERD	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-13	Depth to Liquid (DL): 9.29
Casing Material: PVC	Depth to Water (DW1): 9.29
Diameter: 2"	Product Thickness (PT=DW1-DL): 0
Well Head Condition: good	Total Well Depth (TD): 20.02
Well Box Condition: good	Total head (TH=TD-DW1): 10.73
Purge Method: bailer	Casing Volume (TH*Factor): 1.7
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	5.15

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1122	2gal	18.41	8816	6.74	7.83	154	44.9	GW is cloudy w brown tint
1127	4gal	18.49	900	6.78	5.10	160	410	
1133	6gal	18.21	904	6.81	5.55	159	0.00	← flashed

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
1135	MW-13										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 2/3/16

Project Name: Chun	Client: Lily A. Chun Trust 1991	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone: 510. 343 .3600	
City/State: Alameda, CA	Technician Gauging/Sampling: E. Diesen	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-14	Depth to Liquid (DL): 7.98
Casing Material: PVC	Depth to Water (DW1): 7.98
Diameter: 2"	Product Thickness (PT=DW1-DL): 0
Well Head Condition: good	Total Well Depth (TD): 11.37
Well Box Condition: good	Total head (TH=TD-DW1): 3.39
Purge Method: bailer	Casing Volume (TH*Factor): 0.54
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	1.6 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1157	1gal	17.36	739	7.22	4.57	145	301	cloudy, brownish GW
1159	2gal	16.67	283	7.73	7.57	116	787	hydrocarbon odor
1202	3gal	16.54	17	7.82	8.79	92	744	

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
1205	MW14										

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 2/3/14

Project Name: Chun	Client: Lily A. Chun Trust 1991	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone:	
City/State: Alameda, CA	Technician Gauging/Sampling: GRD	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-1S	Depth to Liquid (DL): 8.04
Casing Material: PVC	Depth to Water (DW1): 8.04
Diameter: 2"	Product Thickness (PT=DW1-DL): 0
Well Head Condition: good	Total Well Depth (TD): 29.36
Well Box Condition: good	Total head (TH=TD-DW1): 21.32
Purge Method: bailer	Casing Volume (TH*Factor): 3.4
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	10.23 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
0933	3.5gal	17.03	659	7.26	7.07	123	300	slightly cloudy gw
0939	7gal	18.11	659	7.25	5.75	134	117	
0949	10.5gal	18.42	665	7.18	8.84	142	72	

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
0955	MW-1S										

Additional Comments

MONITORING WELL SAMPLING FORM

Date: 2/3/14

Project Name: Chun	Client: Lily A. Chun Trust 1991	Job No: 401896004
Address: 2301 Santa Clara Avenue	Contact/Phone:	510. 343. 3000
City/State: Alameda, CA	Technician Gauging/Sampling:	CMS

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-14	Depth to Liquid (DL): 7.91
Casing Material: PVC	Depth to Water (DW1): 7.91
Diameter: 2"	Product Thickness (PT=DW1-DL): 0
Well Head Condition: good	Total Well Depth (TD): 29.36
Well Box Condition: good	Total head (TH=TD-DW1): 21.45
Purge Method: bailer	Casing Volume (TH*Factor): 3.4
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	10.3 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1018	3.5 gal	16.96	305	6.82	8.40	144	15.5	Slightly cloudy Gilbr
1024	7 gal	17.82	312	6.81	5.16	149	76.7	" "
1034	10.5 gal	17.86	312	6.79	8.47	159	81.5	" "

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
1040	MW-10										

Additional Comments