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August 17, 2015

To: Mr. Jerry Wickham
Senior Hazardous Materials Specialist
Alameda County Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Perjury Statement
2nd Quarter 2015 Quarterly Groundwater Monitoring and System Evaluation Report (August 14, 2015)
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 the best of my knowledge.

Carolyn C. Fong, Trustee

Carolyn C. Fong, Trustee

401896004-1 - perjury statement 8-14-15

2ND QUARTER 2015 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:
Ninyo & Moore
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1956 Webster Street, Suite 400
Oakland, California 94612

August 14, 2015
Project No. 401896004

August 14, 2015
Project No. 401896004

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

Subject: 2nd Quarter 2015 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 2nd Quarter 2015 Quarterly 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 installation. We appreciate the opportunity to be of service to you on this project.

Sincerely,
NINYO & MOORE

Peter D. Sims
Project Environmental Geologist

Jason Grant, PE
Senior Project Engineer

PDS/JG/vmp

Distribution: (1) Addressee (via e-mail)
(1) Jerry Wickham, Alameda County Environmental Health (via e-mail)

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1. INTRODUCTION

Ninyo & Moore has conducted remediation system operations and maintenance (O&M) activities and groundwater monitoring at the Bill Chun Service Station property located at 2301 Santa Clara Avenue in Alameda, California (site). This 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. This report also responds to technical comments presented in the ACEH directive letter dated July 21, 2015.

1.1. Purpose

The purpose of this report is to document field activities relating to the remediation system O&M and present the findings for the groundwater sample collection and analysis of site contaminants of concern (COCs), which include total petroleum hydrocarbons as gasoline (TPHg) and benzene. This report will also discuss the contaminant of concern (COC) groundwater plume and bioattenuation parameter trends, and address the technical comments provided in ACEH's July 21, 2015, letter.

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 project site is located in a mostly commercial area with some residential buildings. The site 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, remediation action plans, 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 on 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 on 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, and new wells installed in 2005 were renamed. Injection wells were installed in 2002, 2004, and 2014. Extraction wells were installed in 2014. Injection wells installed in 2002 and 2004 were redeveloped, and all but one well installed in 2002 were abandoned. An inventory of all wells at the site 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 COC 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 on the online GeoTracker database, which are provided in Appendix A, and includes historical concentrations of COCs presented in separate tables for each well.

3. REMEDIATION SYSTEM OPERATIONS AND MAINTENANCE (O&M)

O&M on the site's remediation system includes both biweekly and monthly events, which have been performed by Ninyo & Moore from April 9, 2015, through July 29, 2015. Remediation system O&M field forms are provided in Appendix B. O&M sample laboratory analytical reports are provided in Appendix C. Remediation system flow meter readings are presented on Table 2. The analytical laboratory results for the O&M samples collected from the remediation system are presented on Table 4.

3.1. Biweekly O&M

From April 9, 2015, through July 29, 2015, Ninyo & Moore conducted site visits once every two weeks to perform O&M activities. During each biweekly O&M, the remediation system was checked for proper operation, pressure gauge and flow meter readings were recorded on field forms, and 50 pounds of Custom Blend Nutrient (CBN) nutrient mix were added to the mixing tank.

3.2. Monthly O&M

On April 23, May 21, June 18, and July 16, 2015, in addition to the tasks described in Section 3.1, 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 when breakthrough of COCs occurs 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 Sampling

Samples collected from the remediation system sample ports were transferred directly into the appropriate laboratory supplied containers, labeled with the location ID, wrapped in bubble wrap for protection, placed into a cooler containing ice and transported under chain-of-custody 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 VOCs, which includes benzene, by United States Environmental Protection Agency (USEPA) Method 8260B.

3.2.3. Remediation System Sample Laboratory Results

Concentrations of TPHg and benzene decreased in samples collected at INF from April 23 to May 21, 2015, indicating reduced desorption of site COCs from the soil matrix. Between May 21 and July 16, 2015, TPHg and benzene concentrations in samples collected at INF increased as expected, which is indicative of site COCs desorbing from the subsurface soil and being 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

Because of elevated pressure readings observed on the bag filter assembly during biweekly O&M, the bag filters were changed out on May 28, June 11, June 23, July 8, and July 30 2015. The presence of reddish-brown bacterial slime in the bag filters is evidence of biofouling. The slimy consistency is attributed to bacterial growth and the reddish brown color is attributed to ferric iron precipitate. Biofouling in the bag filters is expected and is indicative that the remediation system is operating properly by encouraging bacterial growth.

3.4. Remediation System Flow Rate Increase

In the *Initial Groundwater Monitoring and System Evaluation Report* (Ninyo & Moore, 2015), Ninyo & Moore recommended the overall remediation system flow rate be increased to the average shallow aquifer pump rate of 2.0 to 3.0 gallons per minute (gpm) as specified in the *Corrective Action Plan* (Ninyo & Moore, 2013a). On May 8 and 15, 2015, Ninyo & Moore increased the injection rate in the remediation system pump controller in order to increase the overall remediation system flow rate. Prior to increasing the injection rate, the overall remediation system flow rate ranged from 1.0 to 1.7 gpm. Subsequent to increasing the injection rate, the overall remediation system flow rate ranged from 1.8 to 2.9 gpm which is within the range system's designed flow rate.

4. GROUNDWATER MONITORING

Ninyo & Moore conducted the 2nd Quarter 2015 groundwater monitoring event on June 11 and 12, 2015. 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. Shallow 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.

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. This was done so that the shallow groundwater elevation contours illustrated on Figure 6 would show the influence the remediation system is exerting on groundwater gradients at the site and 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 presented in Appendix D.

Subsequent to purging, groundwater samples were collected from each well using a peristaltic pump or bailer. During sample collection, the pump was operated at low speed to minimize disturbance of groundwater. The groundwater samples were collected in the ap-

propriate laboratory-provided sample containers, labeled with the well ID, wrapped in bubble wrap for protection, placed into a cooler containing ice and transported under chain-of-custody to TestAmerica.

4.3. Decontamination Procedures

Reusable equipment that came into contact with potentially contaminated water was decontaminated to assure the quality of samples collected and reduce potential cross contamination. Dedicated pump tubing or new 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 a rinse with a non-phosphate based detergent solution, an initial rinse in potable water, and a final rinse in potable 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 were 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

Groundwater samples 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 2nd Quarter Groundwater Monitoring event, and presents a discussion of the groundwater monitoring trends.

5.1. Depth to Groundwater and Groundwater Flow Direction

The groundwater level measurements and the calculated groundwater elevations are presented on Table 3. Shallow groundwater elevation contours are presented on Figure 6 using the June 11 and 12, 2015, monitoring event data (i.e., the 2nd Quarter 2015 monitoring event). Based on the contours on Figure 6, the groundwater gradient appears to be strongly influenced by the operation of the remediation system. Groundwater elevation is highest at well MW-7R due to the presence of the horizontal injection wells (injection piping IN-1 through IN-3), and is also elevated across the portion of the site where vertical injection of amended water is taking place (injection wells EW-14 through EW-19).

The groundwater elevation gradient slopes downward most steeply to the north-northeast toward extraction wells EW-21 and EW-22, and to the southwest toward extraction well EW-20, indicating the remediation system is successfully influencing and controlling groundwater flow beneath the site. Less steep groundwater elevation gradients to the southeast and northwest are present due to the mounded groundwater at the injection wells and horizontal injection piping located in these areas.

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 TestAmerica analytical laboratory report is provided in Appendix C. The laboratory results are compared against Table F-1A of the RWQCB Environmental Screening Levels (ESLs), dated December 2013, "Residential Land Use, Groundwater is Current or Potential Source of Drinking Water". As discussed in Section 7, the remedial action objectives are to meet the SWRCB low threat case closure criteria.

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 to78,000 µg/L, with the highest concentration detected in well MW-7R.

Trends in TPHg concentrations in groundwater samples collected from wells MW-4R, MW-5R, MW-6R, MW7R, MW-11R, and MW14 are presented on Graph 1 and are discussed below:

- TPHg concentrations in groundwater samples collected from wells MW-5R and MW-11R have increased since the 1st quarter 2015 (previous) monitoring event. However, the rate of increase is less than observed during the 1st quarter 2015.

- TPHg concentrations in groundwater samples collected from wells MW-4R, MW-6R, MW-7R, and MW-14 have continued to decrease since the previous monitoring event. Well MW-7R represents the most contaminated area of the site, therefore the decrease in TPHg concentration in well MW-7R indicates remediation is expected to successfully move forward. The decrease in TPHg concentration in MW-14 indicates the remediation system is adequately remediating the southeastern extent of the site's groundwater plume.

5.2.2. Benzene in Groundwater

Benzene concentrations in shallow groundwater are presented on Figure 8. The ESL for benzene is 1.0 µg/L. Benzene was not detected above the laboratory reporting limit in wells MW-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 3,200 µg/L, with the highest concentration detected in well MW-7R.

Trends in benzene concentrations in groundwater samples collected from wells MW-4R, MW-5R, MW-6R, MW7R, MW-11R, and MW14 are presented on Graph 2 and are discussed below:

- Benzene concentrations in groundwater samples collected from wells MW-5R and MW-11 have increased since the previous monitoring event.

- Benzene concentrations in groundwater samples collected from wells MW-4R, MW-6R, MW-7R, and MW14 have decreased since the previous monitoring event. Well MW-7R represents the most contaminated area of the site, therefore the decrease in benzene concentration in well MW-7R indicates remediation is expected to successfully move forward. The decrease in benzene concentration in MW-14 indicates the remediation system is adequately remediating the southeastern extent of the site's groundwater 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 concentration of toluene reported ranged from not detected above the laboratory reporting limit to 29,000 µg/L in MW-7R.

- The concentration of ethylbenzene reported ranged from not detected above the laboratory reporting limit to 4,200 µg/L in MW-5R.

- The concentration of naphthalene reported ranged from not detected above the laboratory reporting limit to 1,000 µg/L in MW-5R.

- The concentration of total xylenes reported ranged from not detected above the laboratory reporting limit to 23,000 µg/L in MW-5R and MW-7R.

- The concentration of 1,2-dichloroethane reported ranged from not detected above the laboratory reporting limit to 2.0 µg/L in MW-12 and MW-13.

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) was 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 indicative of aerobic reducing conditions and negative ORP values are indicative of anaerobic reducing conditions. ORP values recorded during the 2nd quarter 2015 monitoring event ranged from -88 mV to 196 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.

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 2nd quarter 2015 monitoring event ranged from 1.83 milligrams per liter (mg/L) to 6.23 mg/L. Levels of DO are relatively higher and considered favorable to aerobic respiration and oxidation of petroleum hydrocarbons in wells MW-4R, MW-5R, MW-6R, and MW-8 through MW-16. Wells MW-7 and MW-11 had recorded DO levels that were relatively lower, likely due to microbial consumption of DO at a rate exceeding that at which it is replenished by the remediation system.

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. 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. Since remediation system startup, denitrification has occurred as indicated by increased nitrite concentrations in wells MW-4R, MW-5R, MW-6R and MW7R as well as increased nitrogen concentrations in well MW-6R. However, the nitrite and nitrogen concentrations observed during the 2nd quarter 2015 monitoring event have decreased since the previous monitoring events, likely due to the initial mass loading of CBN during startup activities, microbial utilization of the nitrate over time, as well as increasingly aerobic conditions in the groundwater.

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. The concentration of ferrous iron reported in wells ranged from non-detect to elevated concentrations of 6.1 mg/L in MW-14 and 12 mg/l in MW-8. Elevated ferrous iron concentrations indicate that ferric iron is being reduced to ferrous iron due to anaerobic bioattenuation.

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. The concentrations of manganese (II) reported in wells ranged from 0.29 mg/L in MW-16 to 4.7 mg/L in MW-9. The detected manganese (II) concentrations indicate that manganese (IV) oxide is being reduced to manganese (II) due to anaerobic bioattenuation.

5.2.4.6. Sulfate

Sulfate can be consumed by anaerobic bioattenuation after DO, nitrate, ferric iron, and manganese are depleted. 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. Sulfate concentrations that vary inversely with petroleum hydrocarbon concentrations are indicative of anaerobic bioattenuation. 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, manganese 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. 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 values indicating a trend toward stronger aerobic bioattenuation, except in wells MW-7 and MW-11 where the microbial consumption of DO exceeds the rate at which it is replenished by the remediation system. Anaerobic bioattenuation appears to be taking place particularly in the center of the plume, though at lower rates as indicated by generally decreasing concentrations of indicator compounds.

6. QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

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, CA, 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 on the eastern side as evidenced by wells 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 plume remains stable in the north-south direction. Reductions in overall concentrations of COCs in the contaminated groundwater plume are expected to lead to overall descrease 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 at least 200 feet long. Similar to the evaluation of the area of the plume, the length of the plume remains stable. Reductions in overall concentrations of COCs in the contaminated groundwater plume are expected to lead to overall descreases 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 3,200 µg/L in June, 2015. This nearly six fold reduction in the concentration of benzene in groundwater 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. REMEDIATION SYSTEM EVALUATION

ACEH provided two technical comments in their July 21, 2015, directive letter, based on their review of Ninyo & Moore's *Initial Groundwater Monitoring and System Evaluation Report*, dated June 5, 2015. These comments concerned potential plume migration to the southeast as evident in the increasing TPHg and benzene concentrations detected in well MW-14, and the recommendation to increase amended water injection rate from 1 to 2 gpm. Reponses to these two ACEH comments are presented below.

8.1. Plume Migration to Southeast

The groundwater monitoring results obtained during the 2nd Quarter 2015 event no longer indicate an increasing concentration trend in MW-14. Rather, both TPHg and benzene were detected at concentrations significantly lower than those detected in the 1st Quarter 2015 event, and also lower than those concentrations detected in the 4th Quarter 2014 event. In addition, well MW-13, which is located to the southeast of MW-14, continues to report non detectable concentrations of TPHg and benzene. These results indicate the site's groundwater plume has stabilized and is beginning to decrease in the southeast direction. Therefore, no modifications to the treatment system are warranted as plume migration to the southeast appears to be under adequate control.

8.2. Recommended Increased Injection Rate

The operation of the site's treatment system was initiated at lower than designed flow rates to evaluate the ability of the remediation system to operate without surfacing of amended injection water or exceeding maximum operating pressures in the aboveground components of the remediation system. On May 8 and 15, 2015, the overall remediation system flow rate was increased and now ranges from 1.8 to 2.9 gpm to match the design overall remediation system flow rate of 2 to 3 gpm, as established in the CAP (Ninyo & Moore, 2013a). The 2nd Quarter 2015 groundwater monitoring event was performed after the overall remediation system flow rate was increased. As discussed in Section 5.1, groundwater gradients at the site and vicinity now appear to be well controlled by the remediation system with steep gradients to the north-northeast and southwest toward the extraction wells EW-20, EW-21, and

EW-22. In addition, as discussed in Sections 5.2 and 8.1, concentrations of COCs detected in monitoring well MW-14 have decreased significantly indicating that the plume is no longer expanding to the southeast. Therefore, the increased injection rate has not had an adverse effect on the hydraulic gradient, operation of the system or plume control. In fact, it appears that the increased injection rate, which is now established at the system's design flow rate, has improved the treatment system's effectiveness.

These above factors indicate the remediation system is operating as expected by capturing the COC impacted groundwater plume and drawing it to the onsite extraction wells. Continued operation of the remediation system should continue to shrink the COC impacted groundwater plume and reduce the overall concentrations of COCs in order to meet the remedial action objectives.

9. CONCLUSIONS

Ninyo & Moore presents the following conclusions:

- Remediation system O&M activities were performed biweekly between April 9, and July 29, 2015. Biweekly and monthly O&M activities included monitoring the remediation system for proper operation and adding biological amendments (50 pounds of CBN nutrient mix) to the remediation system. Because of elevated pressure readings observed on the bag filter assembly, the bag filters were changed out on May 28, June 11, June 23, July 8, and July 30 2015, 2015.

- Collection of remediation system samples was performed monthly on April 23, May 21, June 18, and July 16, 2015. Analysis of remediation system samples indicated that the remediation system is operating properly and the lead GAC vessel does not yet require change out.

- 2nd quarter 2015 groundwater monitoring and sample collection was performed on June 11 and 12, 2015.

    - Based on depth to water measurements collected during the 2nd quarter 2015 groundwater monitoring event, and surveyed TOC data, the groundwater flow direction appears to be flowing to the north-northeast and southwest due to extraction of groundwater at wells EW-20, EW-21, and EW-22. Groundwater elevations show that groundwater has mounded at the site due to injection of amended water through the vertical injection wells and horizontal injection piping.

- Previously, groundwater appeared to flow to the southeast in addition to the northeast and southwest, and increased concentrations of COCs were observed in well MW-14 indicating that complete capture of the groundwater plume may not have been achieved. Prior to the 2nd quarter 2015 groundwater monitoring event Ninyo & Moore increased the overall remediation system flow rate. The 2nd quarter 2015 groundwater monitoring performed subsequent to the increase in the overall remediation system flow rate showed steeper gradients to the north-northeast and southwest toward extraction wells EW-20, EW-21, and EW-22 as well as reduced concentrations of COCs in well MW-14. This indicates that the groundwater plume has been captured.

- 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 and MW-15.

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

- Reductions in the maximum TPHg and VOC 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 VOC dissolved phase groundwater plume has remained stable in the north-south direction and reduced in size in the east-west direction compared to the groundwater monitoring event performed before remediation system startup in June of 2014.

- Aerobic bioattenuation conditions through DO reduction are the main driver of the remediation process in the groundwater plume. Anaerobic bioattenuation through nitrate, manganese, and ferric iron reduction 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.

- Ninyo & Moore's evaluation of the treatment system's operation indicated it is adequately controlling the groundwater plume migration to the southeast, and there were no adverse effects of increasing the injection rate to the design flow.

10. 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.

11. 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.

12. 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
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	Baf 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.
Totals	**190,303**		**397,760**		**1,600**	**130**	

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

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTE

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

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

Well No.	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	29.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	06/25/14	29.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	12/04/14	29.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	12/31/14	29.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	01/22/15	29.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	02/19/15	29.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	6/11//15	29.56	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-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-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	

TABLE 3 - GROUNDWATER ELEVATION DATA

Well No.	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	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-7R	05/10/12	28.41	25.33	7.63	7.63	0.00	20.78	NA	NA	4" 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	

TABLE 3 - GROUNDWATER ELEVATION DATA

Well No.	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-8	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-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-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-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"

TABLE 3 - GROUNDWATER ELEVATION DATA

Well No.	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-11R	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-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-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	

TABLE 3 - GROUNDWATER ELEVATION DATA

Well No.	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-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-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-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	
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	

TABLE 3 - GROUNDWATER ELEVATION DATA

Well No.	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-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-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-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	29.99	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
EW-16	06/26/14	29.99	22.74	9.29	9.29	0.00	20.70	NA	NA	
EW-16	12/05/14	29.99	NM	NM	NM	ND	NA	NA	NA	Converted to an injection well
EW-16	12/31/14	29.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	01/23/15	29.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	02/20/15	29.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	06/11/15	29.99	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	29.89	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
EW-17	06/25/14	29.89	24.12	9.27	9.27	0.00	20.62	NA	NA	
EW-17	12/05/14	29.89	NM	NM	NM	ND	NA	NA	NA	Converted to an injection well

TABLE 3 - GROUNDWATER ELEVATION DATA

Well No.	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-17	12/31/14	29.89	NM	NM	NM	ND	NA	NA	NA	
EW-17	01/23/15	29.89	NM	NM	NM	ND	NA	NA	NA	
EW-17	02/20/15	29.89	NM	NM	NM	ND	NA	NA	NA	
EW-17	06/11/15	29.89	NM	NM	NM	ND	NA	NA	NA	
EW-18	06/25/14	28.47	14.74	8.91	8.91	0.00	19.56	NA	NA	4" Diameter well
EW-18	12/05/14	28.47	NM	NM	NM	ND	NA	NA	NA	Converted to an injection well
EW-18	12/31/14	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-18	01/23/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-18	02/20/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-18	06/11/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-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-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 injection 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-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 injection 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-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 injection 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	

TABLE 3 - GROUNDWATER ELEVATION DATA

Well No.	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	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	

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	19.69	0.76
12/05/14	Varies	Varies	20.15	-0.45
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	NNE/ SW	19.61	0.61

Notes:
Top-of-Casing (TOC) elevations were surveyed by Virgil Chavez Land Surveying on May 10, 2012, and April 6, 2014.
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-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**	0.37J	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-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-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	<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-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

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-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-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**	**52.0**	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-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-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-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

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-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-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-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-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

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
Analytical Results (ug/L)																												
MW-16	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
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-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-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-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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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
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
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
ESLs		100	1.0	40	30	20	NE	6.1	5.0	0.5	6.0	62	NE	NE	NE	80	100	80	NE	NE	0.86	NE	NE	NE	NE	10	NE	5.0

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
ESL = Regional Water Quality Control Board, Residental Land Use, Environmental Screening Level (groundwater is a current or potential source of drinking water, Table F-1A)

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)																										

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.
* - 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

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-4R	6/25/2014	4.90	1.40	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	7.80	1.10	730.00	<1.0	0.27	13.00	1.00	24.00	<0.20	21.99	1,560.0	7.39	--	-71	*
MW-4R	12/30/2014	1.87	1.60	<1.0	80.00	<1.0	<0.020	22.00	1.40	0.47	<0.20	21.02	422.0	4.81	214	5	*
MW-4R	1/22/2015	1.60	1.60	<1.0	82.00	2.00	<0.020	27.00	1.60	<0.10	<0.20	20.10	544.0	4.72	32.4	83	6.44
MW-4R	2/19/2015	<0.20	1.70	<1.0	83.00	2.20	<0.020	32.00	<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-5R	6/25/2014	<0.50	<0.50	1.50	<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	15.60	4.10	1.10	210	5.70	0.51	16.00	15.00	0.60	0.24	21.23	1,200.0	7.39	--	-118.0	*
MW-5R	12/30/2014	19.30	4.80	1.30	560	7.50	0.42	55.00	16.00	3.30	<0.20	19.82	1,540.0	4.54	64.7	-111.0	7.53
MW-5R	1/22/2015	9.74	2.80	<1.0	310	32.00	0.28	50.00	9.50	0.24	<0.20	18.67	1,260.0	4.58	28.9	-95.0	5.67
MW-5R	2/19/2015	11.14	2.80	<1.0	210	17.00	0.32	47.00	11.00	0.14	0.22	18.39	1,140.0	6.94	28.2	-109.0	2.91

TABLE 5 – BIOATTENUATION MONITORING

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	6/11/2015	3.79	0.99	<1.0	18	1.5	0.15	35	2.8	0.99	0.28	20.40	460.0	--	49.9	-52.0	4.80
MW-6R	6/25/2014	2.90	1.30	0.71	<0.20	<0.20	<0.10	12.00	2.90	<0.10	0.45	20.20	530.7	6.87	--	-114.1	*
MW-6R	12/4/2014	2.84	3.10	<1.0	150	3.40	0.21	26.00	2.50	0.34	0.24	21.77	909.0	7.24	--	-66.0	*
MW-6R	12/30/2014	<0.20	1.20	3.70	250	56	4.10	33.00	<0.10	<0.10	7.20	20.32	971.0	4.80	34.2	47.0	6.99
MW-6R	1/22/2015	<0.20	2.70	1.00	200	32	0.93	74.00	<0.10	<0.10	2.10	19.70	929.0	4.55	0.4	93.0	5.19
MW-6R	2/19/2015	<0.20	2.20	1.30	270	24	1.40	69.00	<0.10	<0.10	4.60	19.42	1,050.0	6.72	0.15	80.0	2.16
MW-6R	6/11/2015	0.73	0.93	1.5	350	2.2	1.60	44	0.73	<0.10	1.80	21.56	975.0	7.03[1]	2.05	121.0	2.98
MW-7R	6/25/2014	35.00	3.40	2.00	<0.20	<0.20	<0.10	<2.0	35.00	<.010	0.39	19.60	774.0	6.61	--	-87.2	*
MW-7R	12/4/2014	29.00	3.00	<1.0	28.00	<1.0	0.16	<0.1	<0.10	29.00	0.50	20.62	695.0	7.13	--	-78.0	*
MW-7R	12/30/2014	15.20	3.30	<1.0	250.00	<1.0	0.13	28.00	3.20	12.00	<0.20	19.56	777.0	5.00	20.9	-41.0	6.65
MW-7R	1/22/2015	18.56	3.90	<1.0	330.00	10.00	0.038	31.00	18.00	0.56	0.34	18.69	1,050.0	4.62	11.1	-37.0	4.82
MW-7R	2/19/2015	17.00	3.50	<1.0	330.00	10.00	0.10	27.00	14.00	3.00	<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	6.14[1]	11.9	-24.0	1.89
MW-8	6/25/2014	6.10	1.10	0.71	<0.20	<0.20	<0.10	4.10	6.10	<0.10	0.34	22.60	444.9	6.77	--	-112.0	*
MW-8	12/5/2014	5.60	1.00	<1.0	<1.0	<1.0	0.83	1.70	0.70	4.90	0.24	22.73	321.0	7.20	--	-96.0	*
MW-8	12/30/2014	8.30	0.89	<1.0	<1.0	<1.0	0.20	12.00	3.10	5.20	<0.20	19.67	328.0	4.98	334	-40.0	6.2
MW-8	1/22/2015	7.80	0.83	<1.0	<1.0	<1.0	0.18	12.00	3.00	4.80	<0.20	19.86	400.0	4.68	259	-49.0	4.6
MW-8	2/19/2015	14.00	1.00	1.50	2.10	<1.0	0.14	13.00	8.00	6.00	0.26	19.85	401.0	6.97	366	-66.0	4.53

TABLE 5 – BIOATTENUATION MONITORING

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-8	6/11/2015	21.0	1.5	1.7	2.4	<1.0	0.032	12	9.0	12	0.28	22.27	240	6.65[1]	249	-88	2.35
MW-9	6/26/2014	44.00	10.00	4.00	0.50	<0.20	<0.10	28.00	44.00	<0.10	0.04	19.60	495.5	6.71	--	142.3	*
MW-9	12/5/2014	51.00	9.70	4.60	4.10	<1.0	0.075	38.00	51.00	<0.10	<0.20	19.91	456.0	6.94	--	43.0	*
MW-9	12/30/2014	5.20	0.95	1.10	3.20	<1.0	0.060	35.00	5.20	<0.10	<0.20	18.66	401.0	4.93	557	151.0	6.82
MW-9	1/22/2015	9.40	1.30	1.00	3.00	<1.0	0.057	42.00	9.40	<0.10	<0.20	18.40	478.0	4.67	441	132.0	5.55
MW-9	2/19/2015	66.00	5.30	5.70	4.10	<1.0	0.088	47.00	66.00	<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	25.27	162	6.92[1]	814	84	5.54
MW-10	6/26/2014	42.00	0.65	4.50	2.10	<0.20	0.40	11.00	42.00	<0.10	<0.03	20.30	306.7	6.24	--	131.3	*
MW-10	12/5/2014	<0.20	<0.020	<1.0	10.00	<1.0	0.021	14.00	<0.10	<0.10	<0.20	20.80	271.0	7.35	--	73.0	*
MW-10	12/30/2014	3.70	0.20	<1.0	12.00	<1.0	<0.020	13.00	3.70	<0.10	<0.20	18.90	292.0	4.73	147	127.0	8.73
MW-10	1/22/2015	5.30	0.18	<1.0	12.00	<1.0	0.032	13.00	5.30	<0.10	<0.20	18.88	306.0	4.74	414	192.0	5.11
MW-10	2/19/2015	35.00	0.47	3.50	12.00	<1.0	0.050	13.00	35.00	<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	6.23
MW-11R	6/26/2014	120.00	2.00	10.00	0.66	<0.20	<0.10	<2.0	120.00	<0.10	0.03	18.70	153.3	7.01	--	-80.3	*
MW-11R	12/4/2014	0.91	0.78	<1.0	1.40	<1.0	0.14	4.20	<0.1	0.91	<0.20	19.78	185.0	7.14	--	-46.0	*
MW-11R	12/31/2014	13.00	1.60	1.30	2.40	<1.0	0.089	6.40	4.40	8.60	<0.20	17.90	288.0	5.27	1000	-32.0	9.39
MW-11R	1/23/2015	20.00	1.30	1.30	<1.0	<1.0	0.027	2.80	8.00	12.00	<0.20	16.10	223.0	5.78	0	162.0	10.15
MW-11R	2/20/2015	3.10	0.55	<1.0	<1.0	<1.0	0.110	2.00	2.00	1.10	<0.20	17.63	161.0	6.98	131	-35.0	3.18

TABLE 5 – BIOATTENUATION MONITORING

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	6/12/2015	1.4	0.81	<1.0	<1.0	<1.0	0.15	1.2	<0.1	1.4	<0.20	20.51	186	6.94[1]	2.46	-14	1.83
MW-12	6/26/2014	15.00	1.70	2.20	2.00	<0.20	<0.10	2.20	15.00	<0.10	<0.03	19.20	544.4	6.39	--	5.4	*
MW-12	12/4/2014	0.69	1.00	<1.0	29.00	<1.0	<0.020	10.00	0.32	0.37	<0.20	20.13	393.0	7.05	--	26.0	*
MW-12	12/31/2014	6.21	1.50	<1.0	13.00	<1.0	0.028	8.60	5.70	0.51	<0.20	18.71	362.0	5.32	136	91.0	8.40
MW-12	1/23/2015	7.30	1.50	<1.0	12.00	<1.0	<0.020	9.30	6.20	1.10	<0.20	17.75	425.0	4.72	789	19.0	6.54
MW-12	2/19/2015	96.91	3.10	8.00	2.30	<1.0	0.034	7.60	96.00	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	6.75[1]	271	27	3.93

TABLE 5 – BIOATTENUATION MONITORING

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	3.80	<0.5	1.20	1.20	<0.20	0.140	10.00	3.80	<0.10	0.04	18.50	242.2	6.62	--	124.4	*
MW-13	12/4/2014	170.19	2.70	11.00	17.00	<1.0	0.190	13.00	170.00	0.19	0.27	19.85	308.0	6.80	--	55.0	*
MW-13	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	1/23/2015	23.00	0.71	2.30	6.80	<1.0	0.081	12.00	23.00	<0.10	<0.20	17.66	291.0	6.75	808	149.0	9.02
MW-13	2/20/2015	29.00	1.20	3.10	4.40	<1.0	0.082	12.00	29.00	<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	5.60	<1.0	<0.020	12	53	0.14	<0.20	21.73	5	--	17.5	86	6.04
MW-14	6/26/2014	28.00	1.20	2.30	7.70	<0.20	<0.10	15.00	28.00	<0.10	0.06	17.70	251.6	6.69	--	142.2	*
MW-14	12/4/2014	26.19	1.10	1.80	49.00	<1.0	0.046	20.00	26.00	0.19	<0.20	19.54	187.0	6.70	--	44.5	*
MW-14	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	1/23/2015	29.14	1.00	2.20	6.20	<1.0	<0.020	13.00	29.00	0.14	<0.20	17.58	385.0	6.86	503	187.0	10.3
MW-14	2/20/2015	23.19	1.90	1.90	21.00	<1.0	<0.020	12.00	23.00	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	6.18
MW-15	6/26/2014	54.00	0.77	5.20	<0.20	<0.20	<0.10	3.90	54.00	<0.10	<0.03	19.00	260.1	6.87	--	-76.1	*
MW-15	12/5/2014	1.30	0.36	<1.0	<1.0	<1.0	0.095	5.50	<0.10	1.30	<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	5.30	<0.10	0.78	<0.20	19.93	208.0	5.38	24.2	-41.0	7.82
MW-15	1/23/2015	29.80	0.58	3.30	<1.0	<1.0	0.035	16.00	26.00	3.80	<0.20	19.89	329.0	7.09	932	-3.0	7.65
MW-15	2/20/2015	28.60	0.60	3.30	<1.0	<1.0	0.029	23.00	25.00	3.60	<0.20	19.81	425.0	6.99	551	8.0	5.02
MW-15	6/12/2015	55.4	0.80	5.0	4.3	<1.0	<0.020	42	54	1.4	<0.20	20.88	299	--	575	119	3.12

TABLE 5 – BIOATTENUATION MONITORING

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-16	6/26/2014	<0.5	<0.5	<0.5	<0.20	<0.20	<0.10	3.10	<0.5	<0.10	<0.03	18.30	401.5	6.68	--	-70.7	*
MW-16	12/5/2014	2.64	0.30	<1.0	<1.0	<1.0	0.037	6.50	2.50	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	8.10	1.60	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	9.50	5.30	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	10.00	4.70	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	6.84[1]	90.6	130	2.95
EW-14	6/25/2014	6.20	1.00	3.20	<0.20	<0.20	<0.10	4.00	6.20	<0.10	0.54	19.3	1,258.0	6.98	--	-122.8	*
EW-15	6/25/2014	21.00	2.90	1.60	<0.20	<0.20	<0.10	<2.0	21.00	<0.10	<0.15	19.3	870.0	6.81	--	-96.1	*
EW-16	6/26/2014	3.50	1.40	0.77	<.020	<0.20	15.00	19.00	3.50	<0.10	<0.15	20.1	916.0	6.80	--	-89.3	*
EW-17	6/25/2014	31.00	1.60	0.75	<0.20	<0.20	<0.10	3.40	31.00	<0.10	0.34	19.5	1,494.0	7.09	--	-119.0	*
EW-18	6/25/2014	73.00	2.90	9.50	<0.20	<0.20	<0.10	<2.0	73.00	<0.10	0.30	21.2	870.0	6.82	--	-101.4	*
EW-19	6/25/2014	43.00	3.30	7.10	<0.20	<0.20	0.17	<2.0	43.00	<0.10	0.50	20.5	926.0	6.66	--	-91.1	*
EW-20	6/25/2014	110.00	2.60	9.10	0.22	<0.20	0.14	7.00	110.00	<0.10	0.36	21.0	750.0	6.85	--	-107.2	*

TABLE 5 – BIOATTENUATION MONITORING

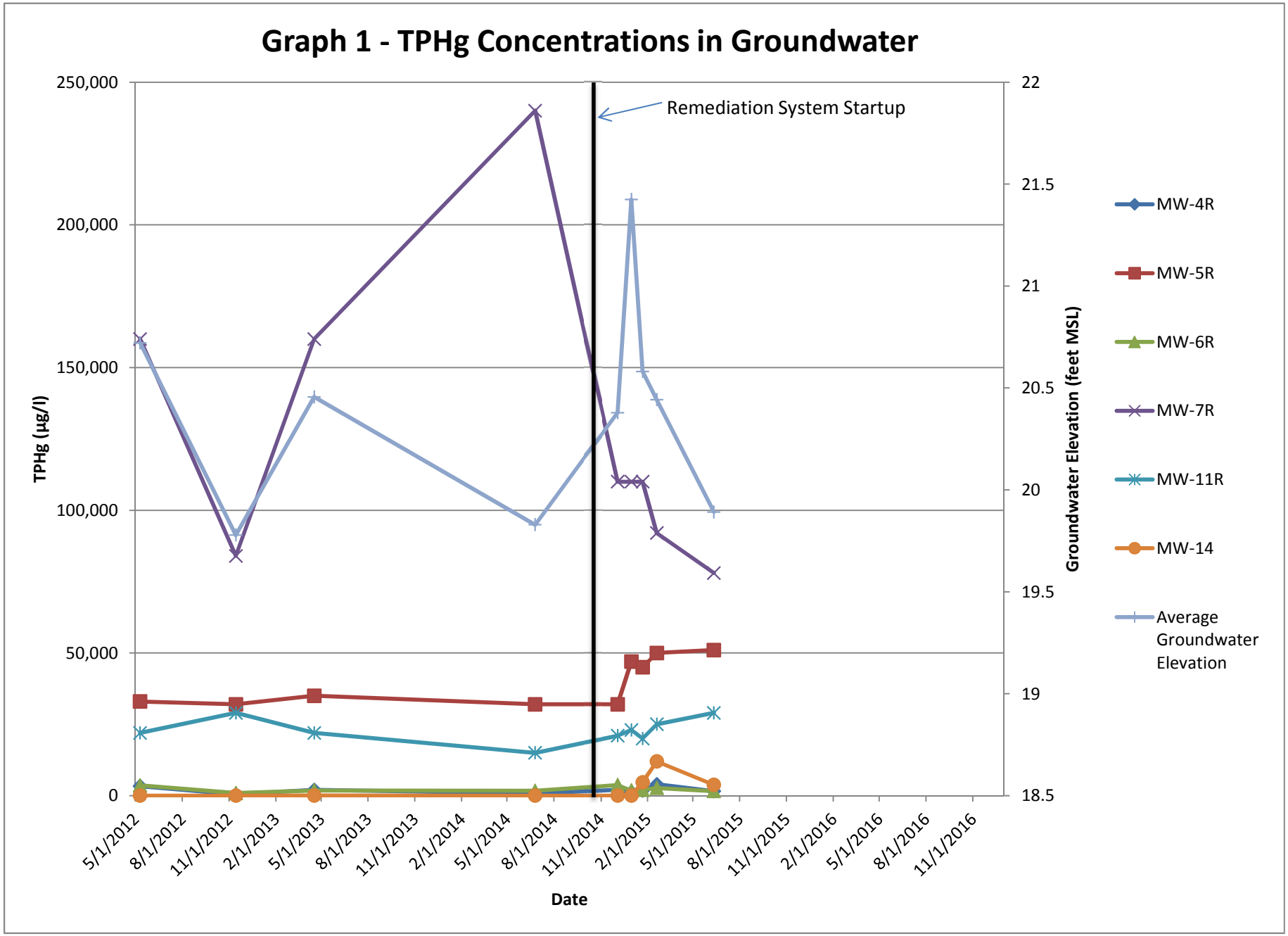
Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
EW-21	6/26/2014	1.60	<0.5	6.10	6.10	<0.20	<0.10	15.00	1.60	<0.10	<0.03	20.0	422.2	6.90	--	10.0	*
EW-22	6/26/2014	23.00	<0.5	3.60	0.47	<0.20	<0.10	8.60	23.00	<0.10	0.03	18.8	173.7	6.63	--	141.3	*

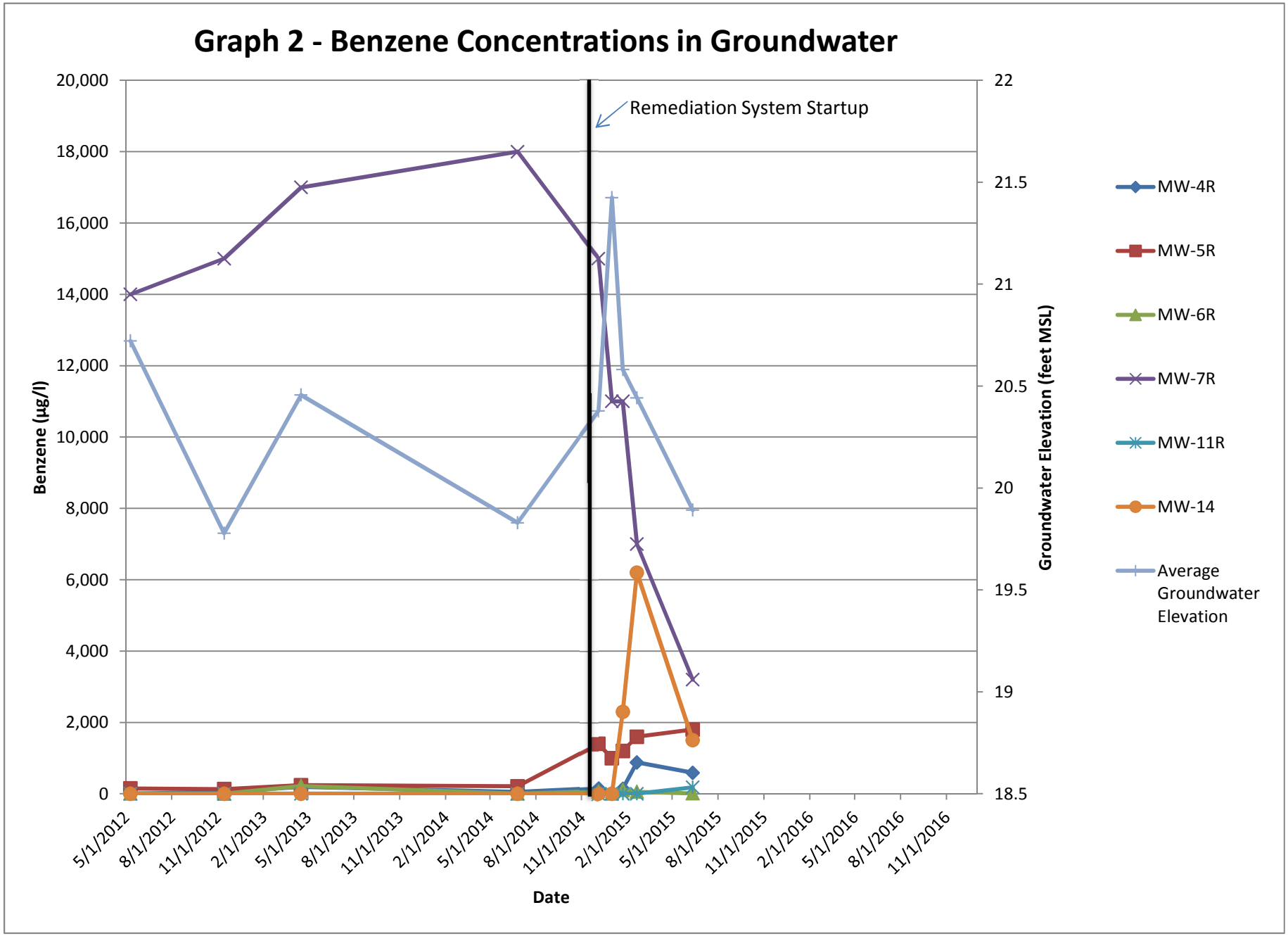
TABLE 5 – BIOATTENUATION MONITORING

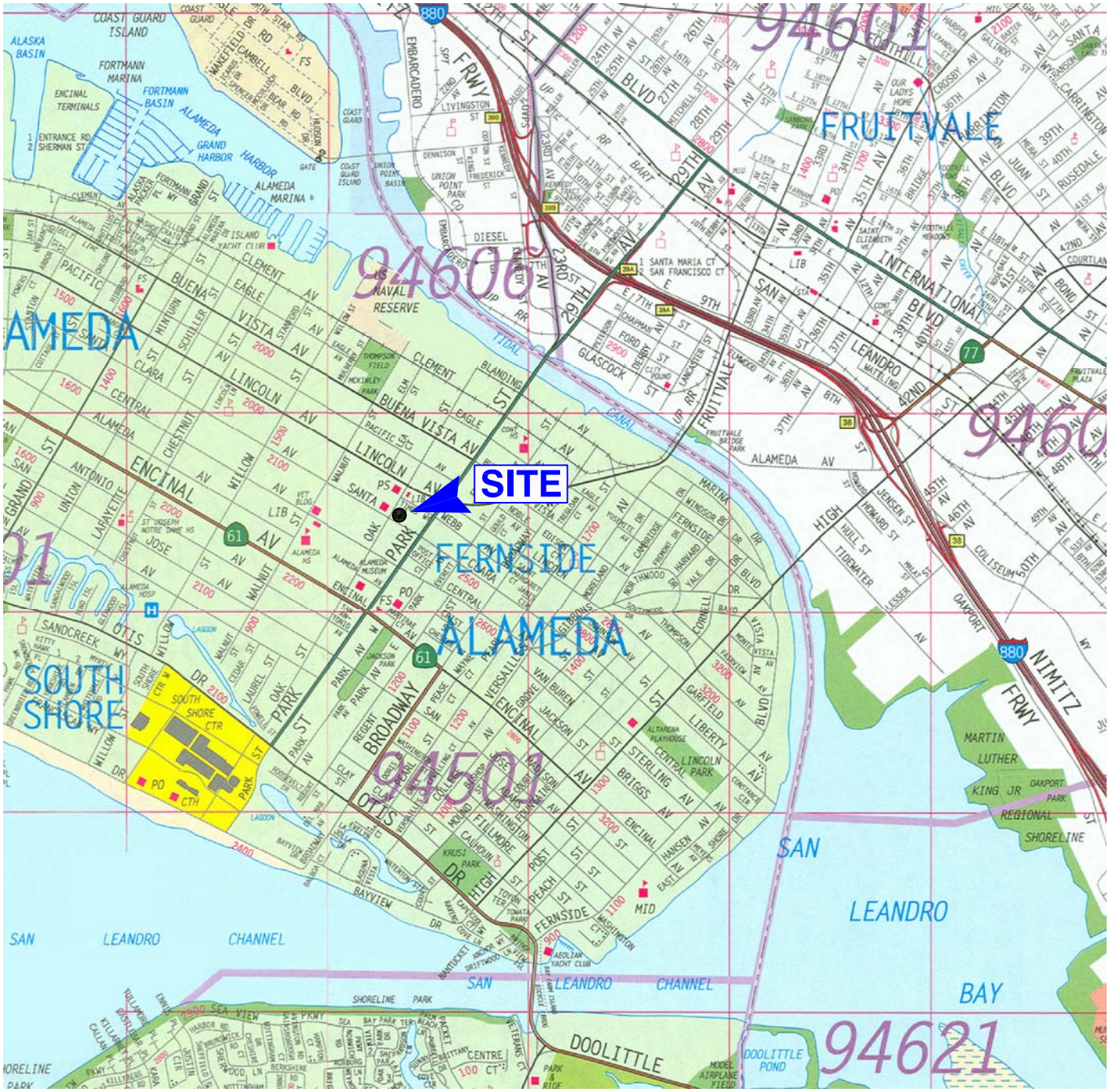
Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)															
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia	Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (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
-- − Not analyzed or not applicable
[1] - pH readings taken on 6/22/15 and not on sample date

*- Dissolved oxygen content was mistakenly measured in percent (%) during the 6/25/14 and 6/26/14 sampling event as well as the 12/4/14 and 12/5/14 sampling event. These results are hidden to avoid confusion. Samples taken on and after 12/30/2014 are measured in mg/L.


Graph 1 - TPHg Concentrations in Groundwater
TPHg (µg/l)
Groundwater Elevation (feet MSL)
Date
Remediation System Startup
250,000
200,000
150,000
100,000
50,000
0
22
21.5
21
20.5
20
19.5
19
18.5
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


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
22
21.5
21
20.5
20
19.5
19
18.5
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 7/15	2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA	1

401896004-FIG1.dwg, Jul 28, 2015, 3:55pm, snguyen

REFERENCE: GOOGLE EARTH, 2012.

N

SCALE IN FEET

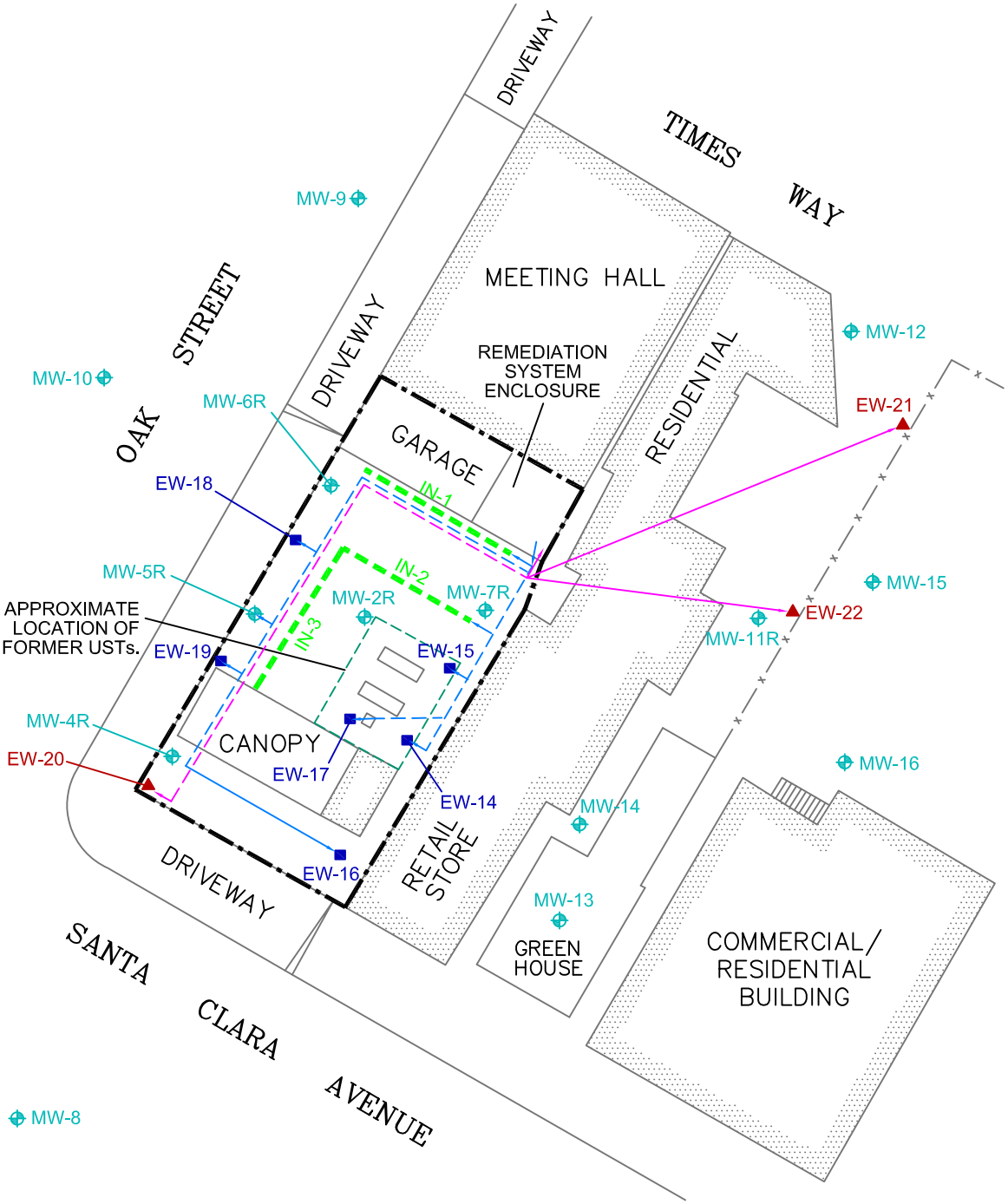
0 40 80

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND	
	APPROXIMATE SITE BOUNDARY

Ninyo & Moore	SITE VICINITY	FIGURE
PROJECT NO. 401896004 / DATE 7/15	2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA	2

401896004-FIG2.dwg, Jul 28, 2015, 3:55pm,snguyen



N

SCALE IN FEET

0 30 60

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

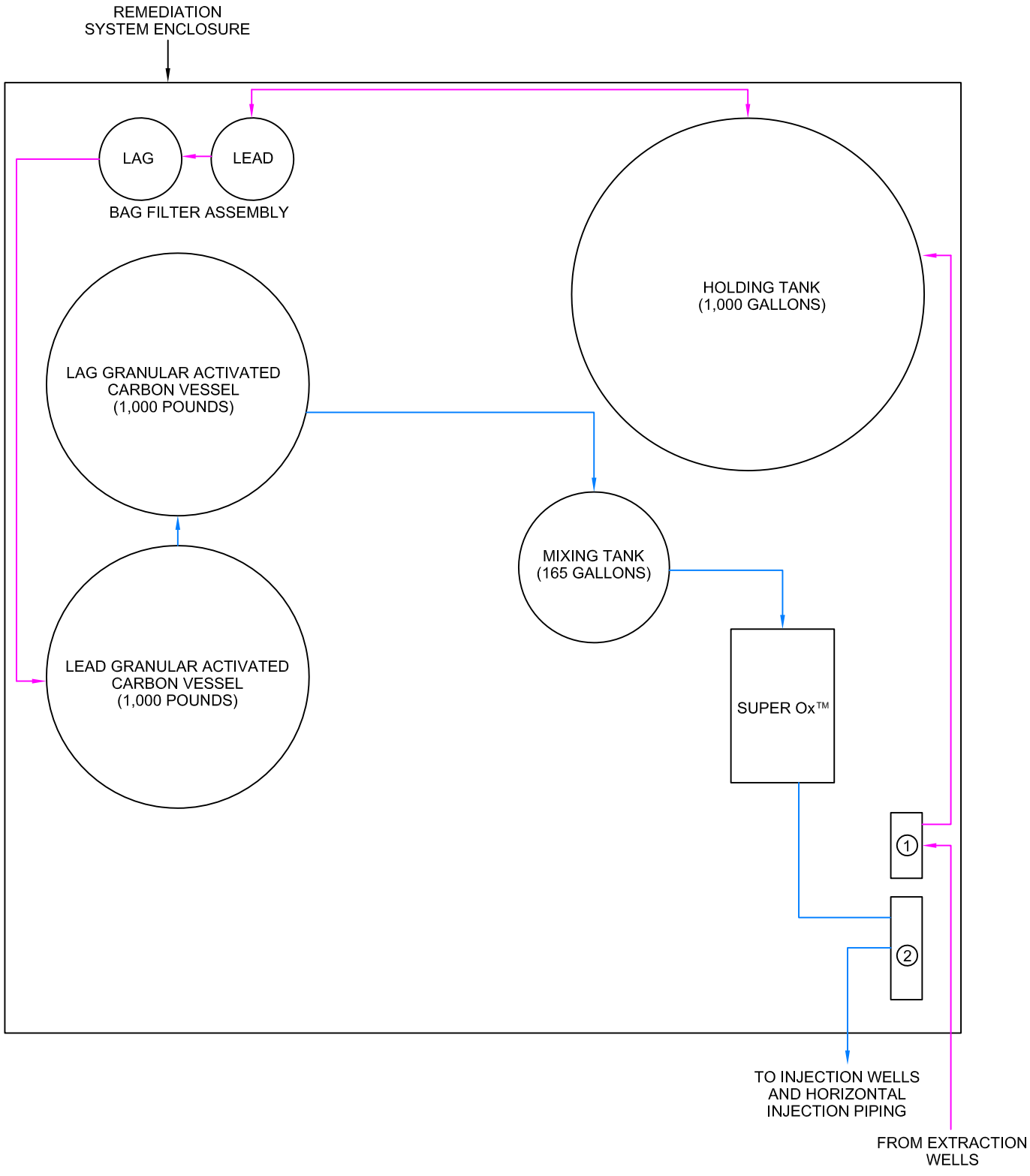
LEGEND

- 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 7/15	2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA	3

401896004-FIG3.dwg, Jul 28, 2015, 3:54pm,snguyen



N

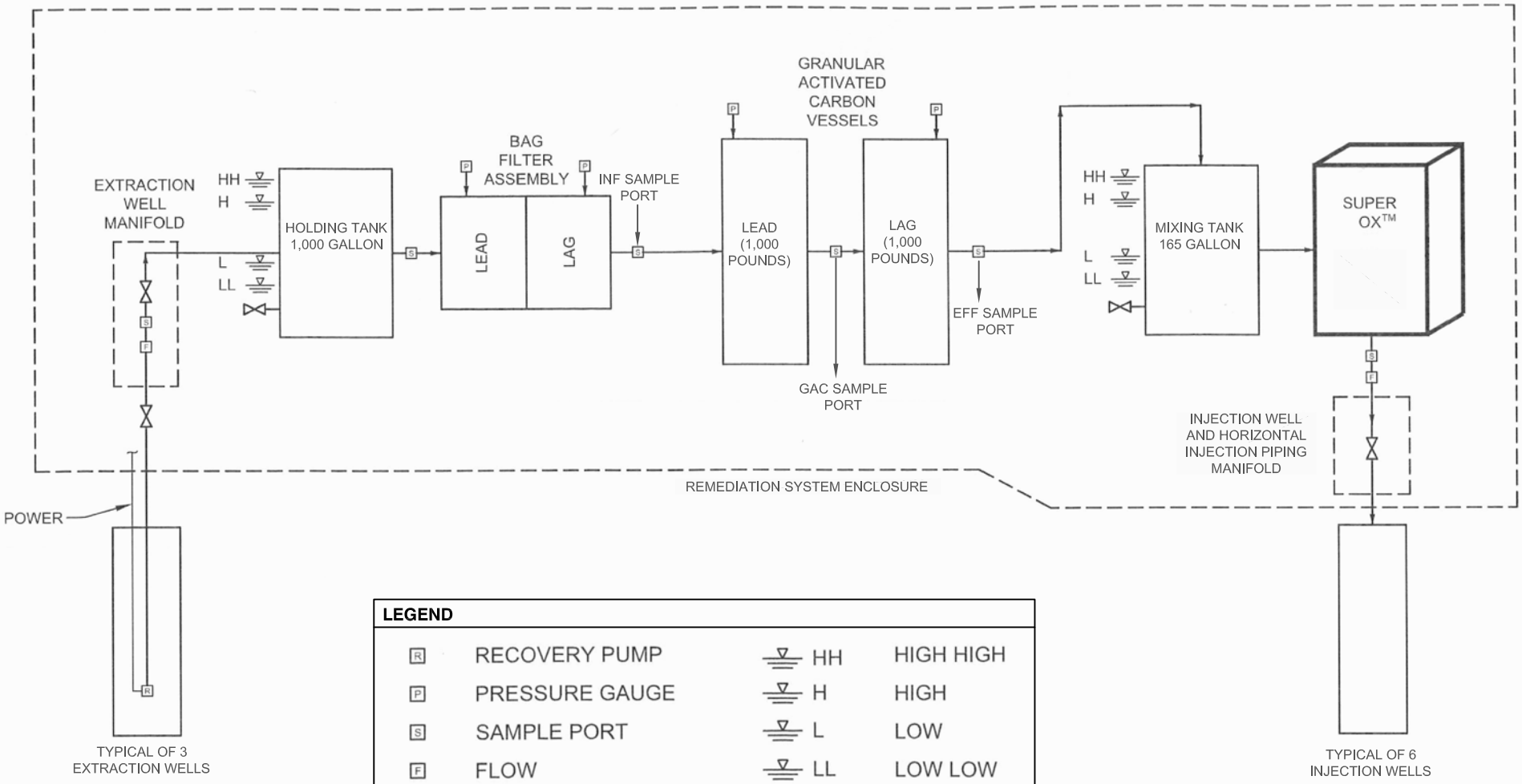
NOT TO SCALE

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	7/15		

401896004-FIG4.dwg, Jul 28, 2015, 3:54pm,snguyen



LEGEND

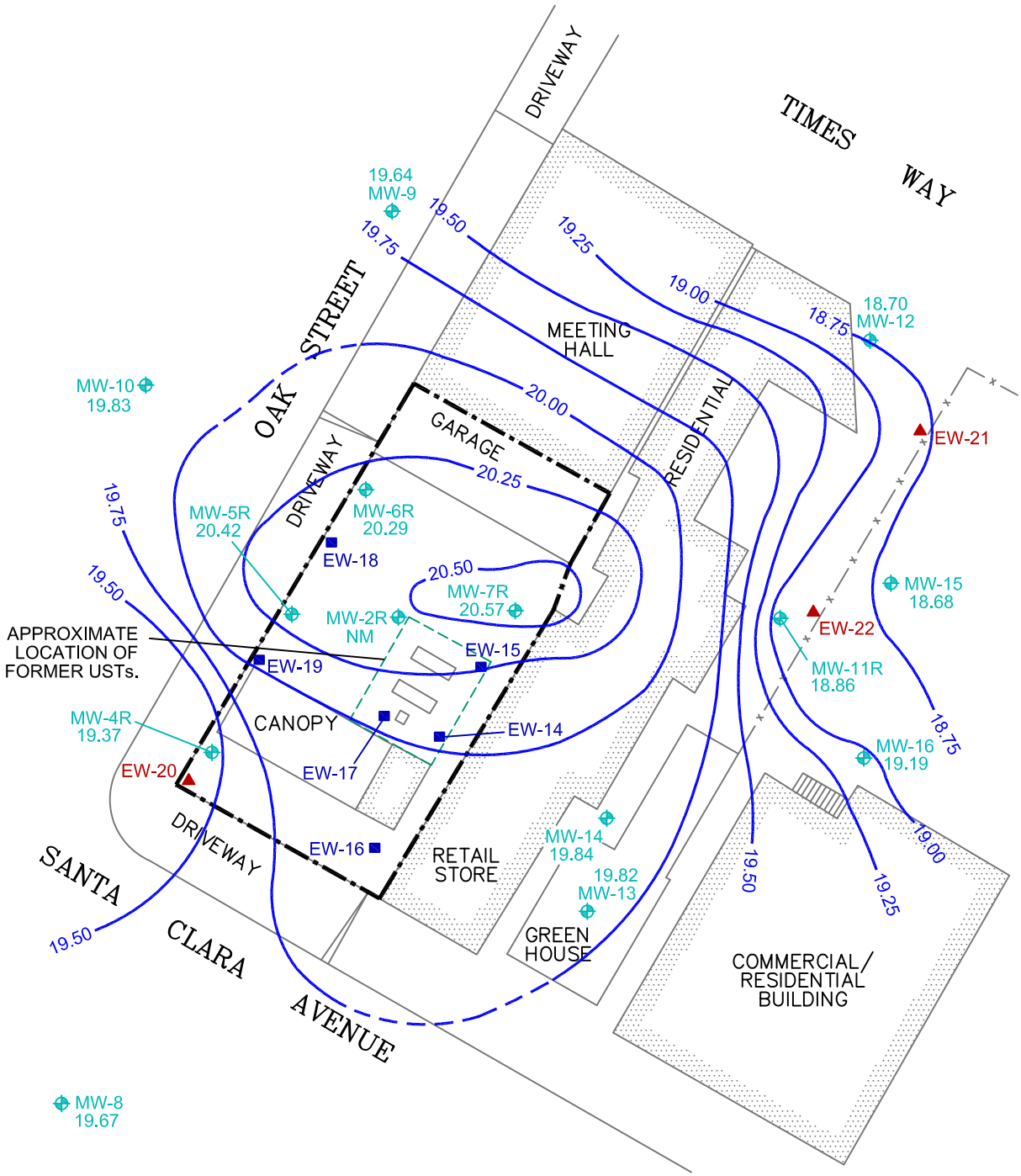
R	RECOVERY PUMP	HH	HIGH HIGH
P	PRESSURE GAUGE	H	HIGH
S	SAMPLE PORT	L	LOW
F	FLOW	LL	LOW LOW
	VALVE		

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 / 7/15		



N

SCALE IN FEET

0 30 60

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

	APPROXIMATE SITE BOUNDARY
x	FENCE
MW-16	GROUNDWATER MONITORING WELL
EW-22	GROUNDWATER EXTRACTION WELL
18.88	ELEVATION IN FEET ABOVE MEAN SEA LEVEL
EW-19	GROUNDWATER INJECTION WELL
	GROUNDWATER EQUIPOTENTIAL LINE (DASHED WHERE INFERRED)
NM	NOT MEASURED

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.

Ninyo & Moore

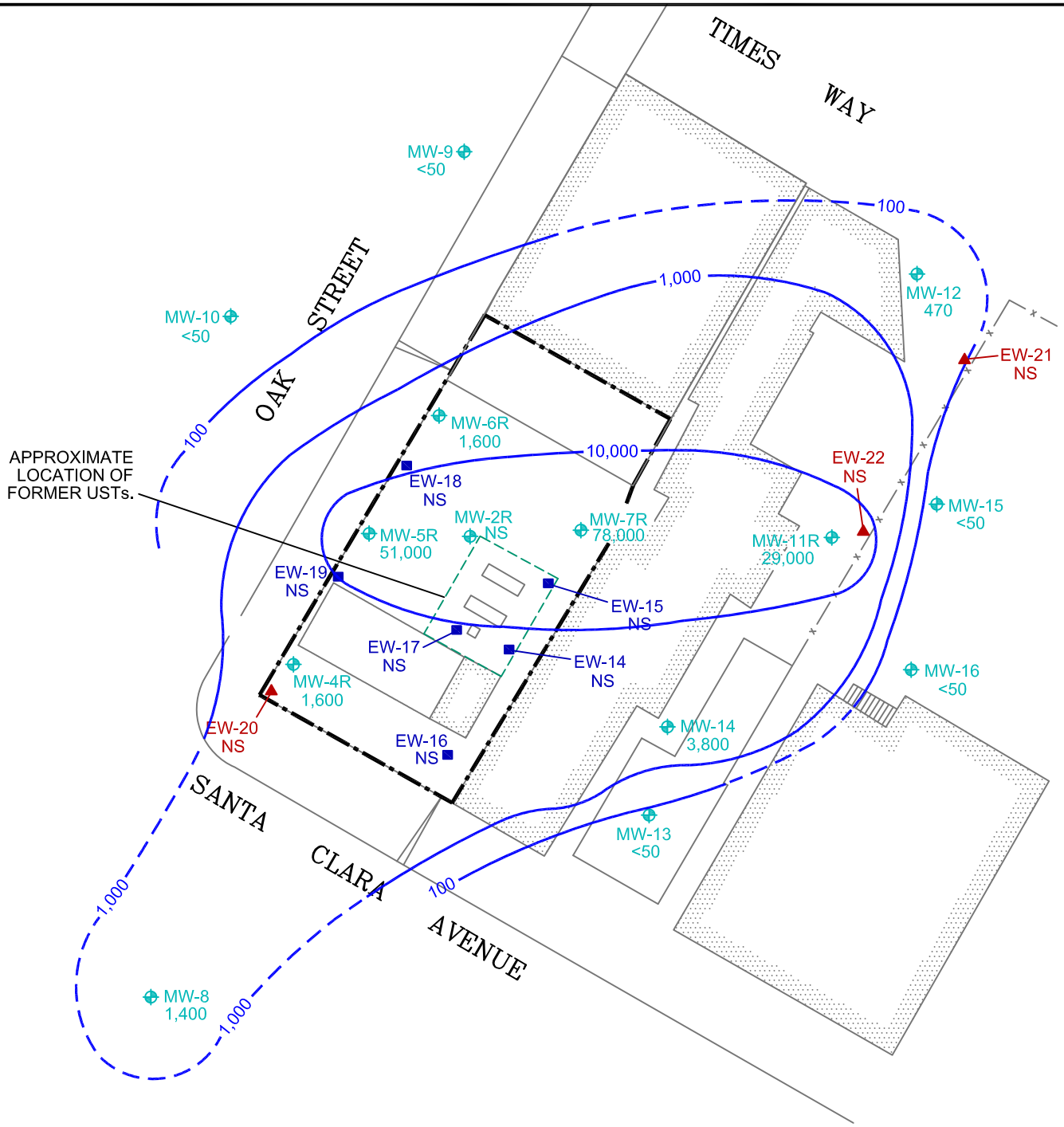
GROUNDWATER ELEVATION CONTOUR 6/11-12/2015

FIGURE 6

PROJECT NO.	DATE
401896004	7/15

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

401896004-FIG6.dwg, Jul 28, 2015, 3:53pm,snguyen



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

	APPROXIMATE SITE BOUNDARY
	FENCE
MW-16	GROUNDWATER MONITORING WELL
EW-22	GROUNDWATER EXTRACTION WELL
78,000	CONCENTRATION IN MICROGRAMS PER LITER
NS	NOT SAMPLED
EW-19	GROUNDWATER INJECTION WELL
	TPHg IN GROUNDWATER ISOCONCENTRATION LINE (DASHED WHERE INFERRED) IN MICROGRAMS PER LITER
TPHg	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.

Ninyo & Moore

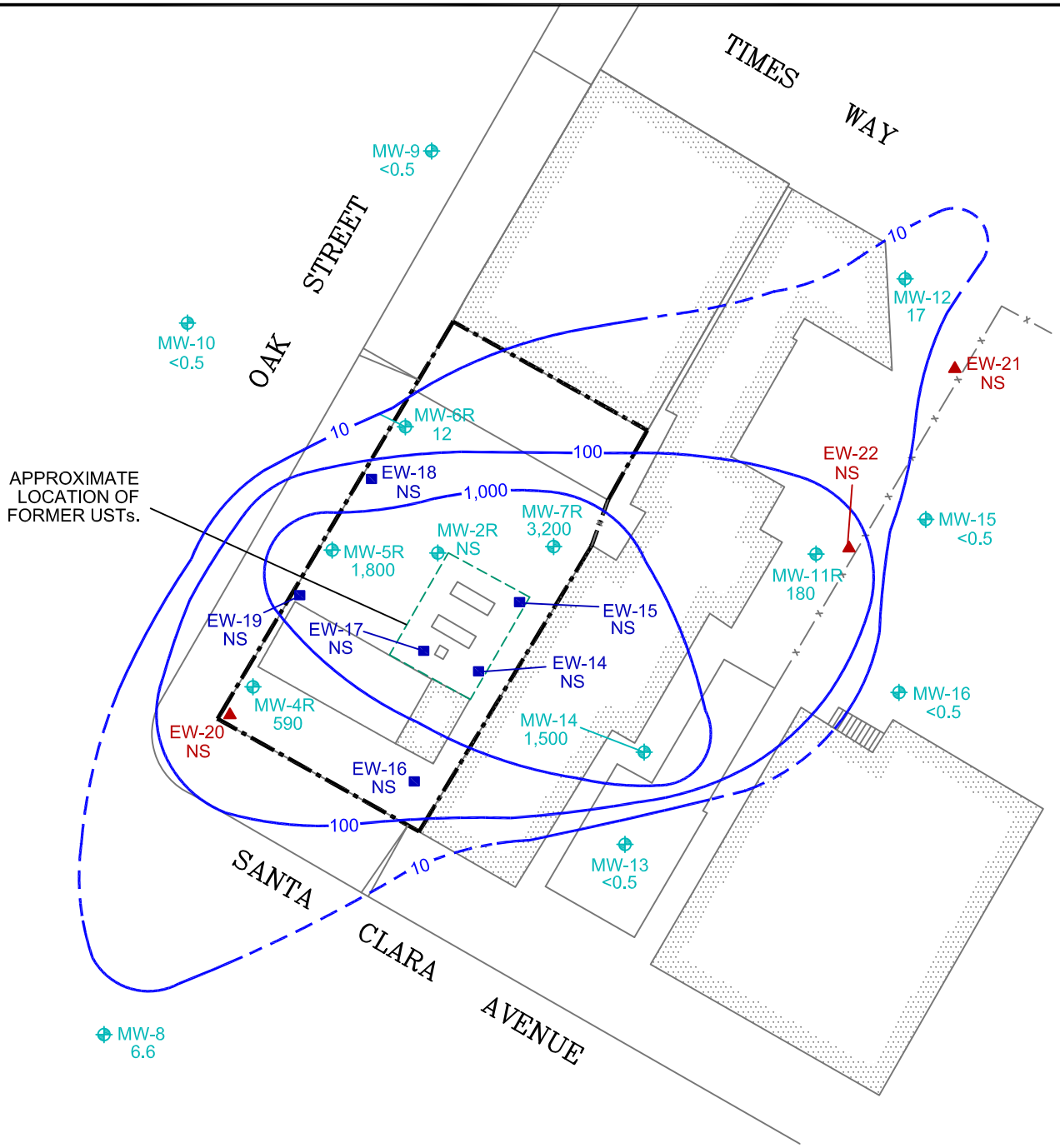
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE CONCENTRATIONS IN GROUNDWATER - 6/11-12/2015

FIGURE 7

PROJECT NO.	DATE
401896004	7/15

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

401896004-FIG7.dwg, Jul 28, 2015, 3:53pm,snguyen



LEGEND

	APPROXIMATE SITE BOUNDARY
	FENCE
MW-16	GROUNDWATER MONITORING WELL
EW-22	GROUNDWATER EXTRACTION WELL
3,200	CONCENTRATION IN MICROGRAMS PER LITER
NS	NOT SAMPLED
ND<X	INDICATES NOT DETECTED ABOVE LABORATORY DETECTION LIMIT OF X
EW-19	GROUNDWATER INJECTION WELL
	TPHg IN GROUNDWATER ISOCONCENTRATION LINE (DASHED WHERE INFERRED) IN MICROGRAMS PER LITER

N

SCALE IN FEET

0 30 60

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.

Ninyo & Moore

BENZENE CONCENTRATIONS IN GROUNDWATER - 6/11-12/2015

FIGURE 8

PROJECT NO.	DATE
401896004	7/15

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

401896004-FIG8.dwg, Jul 28, 2015, 3:52pm,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 & 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:** 6 / 4 / 15

Field Tech: Peter Sims **Time:** 09:05

Wells

Well ID	METER READING	Pressure (psi)	GW Depth (ft)	DO (mg/L)	pH (units)	ORP (mV)	EC (µS/cm)
Extraction							
EX-20	171210	--	--	--	--	--	--
EX-22	79820	--	--	--	--	--	--
EX-21	104920	--	--	--	--	--	--
		--	--	--	--	--	--
		--	--	--	--	--	--
Injection							
IN-18 + IN-19	18450	--	--	--	--	--	--
IN-16	40030	--	--	--	--	--	--
Trenches 2+3	69520	--	--	--	--	--	--
Trench 1 + IN 17	754201	--	--	--	--	--	--
IN 14 +15	56260	--	--	--	--	--	--

Treatment System

Totalizer (digital): 270030 gal
DO-IT System Pressure: 36 psi (analog)
O2 Flow: 2.5 scfh

GAC Lead Pressure: 10 psi
GAC Polish Pressure: 0 psi
Bag Filter 1 Pressure : 48 psi
Bag Filter 2 Pressure : 26 psi
Mixing Tank pH —
Holding Tank pH —

Weekly Maintenance Checklist

☒ Check O2 Flow
☒ Check All Flow Meters and Pressure Gauges

☐ Add Amendment to Holding Tank
— cups soda ash pH buffer

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

Quarterly Maintenance Checklist

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

Field Form for Treatment System Operations and Maintenance

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

Visit Type: ☒ weekly ☐ monthly ☐ quarterly ☐ unplanned **Date:** 6/18/15

Field Tech: Emily Dirksen **Time:** 8:25

Wells

Well ID	METER READING	Pressure (psi)	GW Depth (ft)	DO (mg/L)	pH (units)	ORP (mV)	EC (µS/cm)
Extraction							
EX-20	192250	--	--	--	--	--	--
EX-22	88080	--	--	--	--	--	--
EX-21	117430	--	--	--	--	--	--
		--	--	--	--	--	--
		--	--	--	--	--	--
Injection							
IN-18 + IN-19	19580	--	--	--	--	--	--
IN-16	42230	--	--	--	--	--	--
Trenches 2+3	77470	--	--	--	--	--	--
Trench 1 + IN 17	82640	--	--	--	--	--	--
IN 14 +15	61620	--	--	--	--	--	--

Treatment System

Totalizer (digital): 294370 gal
DO-IT System Pressure: 38 psi (analog)
O2 Flow: 2.6 scfh

GAC Lead Pressure: 15 psi
GAC Polish Pressure: 0 psi
Bag Filter 1 Pressure : 28 psi
Bag Filter 2 Pressure : 23 psi
Mixing Tank pH na
Holding Tank pH na

Weekly Maintenance Checklist

☑ Check O2 Flow
☑ Check All Flow Meters and Pressure Gauges

☐ Add Amendment to Holding Tank
_____ cups soda ash pH buffer

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

Quarterly Maintenance Checklist

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

Field Form for Treatment System Operations and Maintenance

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

Visit Type: ☒ Bi-weekly ☐ monthly ☐ quarterly ☐ unplanned **Date:** 7 / 1 / 15

Field Tech: Peter Sims **Time:** 16 : 15

Wells

Well ID	METER READING	Pressure (psi)	GW Depth (ft)	DO (mg/L)	pH (units)	ORP (mV)	EC (µS/cm)
Extraction							
EX-20	222,140	--	--	--	--	--	--
EX-22	97,150	--	--	--	--	--	--
EX-21	130,600	--	--	--	--	--	--
		--	--	--	--	--	--
		--	--	--	--	--	--
Injection							
IN-18 + IN-19	20,870	--	--	--	--	--	--
IN-16	44,810	--	--	--	--	--	--
Trenches 2+3	86,070	--	--	--	--	--	--
Trench 1 + IN 17	90,270	--	--	--	--	--	--
IN 14 +15	66,960	--	--	--	--	--	--

Treatment System

Totalizer (digital): 320,500 gal
DO-IT System Pressure: 28 psi (analog)
O2 Flow: 4.8 scfh

GAC Lead Pressure: 14 psi
GAC Polish Pressure: 0 psi
Bag Filter 1 Pressure : 26 psi
Bag Filter 2 Pressure : 22 psi
Mixing Tank pH —
Holding Tank pH —

Weekly Maintenance Checklist

☒ Check O2 Flow
☒ Check All Flow Meters and Pressure Gauges

☐ Add Amendment to Holding Tank
0 cups soda ash pH buffer

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

Quarterly Maintenance Checklist

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

Field Form for Treatment System Operations and Maintenance

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

Visit Type: ☒ Bi-weekly ☐ monthly ☐ quarterly ☐ unplanned **Date:** 7 / 16 / 15

Field Tech: Peter Sims **Time:** ~~15~~ 11:32

Wells

Well ID	METER READING	Pressure (psi)	GW Depth (ft)	DO (mg/L)	pH (units)	ORP (mV)	EC (µS/cm)
			Extraction				
EX-20	259080	--	--	--	--	--	--
EX-22	107650	--	--	--	--	--	--
EX-21	144990	--	--	--	--	--	--
		--	--	--	--	--	--
		--	--	--	--	--	--
			Injection				
IN-18 + IN-19	22330	--	--	--	--	--	--
IN-16	47750	--	--	--	--	--	--
Trenches 2+3	95720	--	--	--	--	--	--
Trench 1 + IN 17	98840	--	--	--	--	--	--
IN 14 +15	73050	--	--	--	--	--	--

Treatment System

Totalizer (digital): 349870 gal
DO-IT System Pressure: 38 psi (analog)
O2 Flow: 1 +0 scfh

14/15	T1/17
138	30
~1	4.5

GAC Lead Pressure: 12 psi
GAC Polish Pressure: 0 psi
Bag Filter 1 Pressure : ~~18~~ 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
______ 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

Bring new well diagram

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:** 7/29/15

Field Tech: Peter Sims **Time:** 08:24

Wells

Well ID	METER READING	Pressure (psi)	GW Depth (ft)	DO (mg/L)	pH (units)	ORP (mV)	EC (µS/cm)
Extraction							
EX-20	291890	--	--	--	--	--	--
EX-22	116490	--	--	--	--	--	--
EX-21	157950	--	--	--	--	--	--
		--	--	--	--	--	--
		--	--	--	--	--	--
Injection							
IN-18 + IN-19	23560	--	--	--	--	--	--
IN-16	50230	--	--	--	--	--	--
Trenches 2+3	104050	--	--	--	--	--	--
Trench 1 + IN 17	106170	--	--	--	--	--	--
IN 14 +15	78300	--	--	--	--	--	--

Treatment System

Totalizer (digital): 375000 gal (14/15 1/17 3/3 16)
DO-IT System Pressure: _____ psi (analog) (36 28 22 32)
O2 Flow: _____ scfh (2 4.8 6.2 3)

GAC Lead Pressure: 10 psi
GAC Polish Pressure: 0 psi
Bag Filter 1 Pressure : 50 psi
Bag Filter 2 Pressure : 28 psi
Mixing Tank pH —
Holding Tank pH —

Weekly Maintenance Checklist

☒ Check O2 Flow
☒ Check All Flow Meters and Pressure Gauges

☐ Add Amendment to Holding Tank
— cups soda ash pH buffer

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

Quarterly Maintenance Checklist

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

APPENDIX C

LABORATORY ANALYTICAL REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

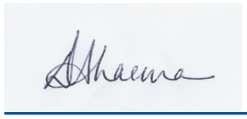
ANALYTICAL REPORT

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

TestAmerica Job ID: 720-65417-1
Client Project/Site: Chun

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

Attn: Mr. Peter D. Sims



Authorized for release by:
6/18/2015 3:51:19 PM

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

Table of Contents

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

Qualifiers

General Chemistry

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

Glossary

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

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

Job ID: 720-65417-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-65417-1

Comments
No additional comments.

Receipt
The samples were received on 6/11/2015 5:17 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9º C.

Receipt Exceptions

One or more containers for the following sample was received empty:

Vials for Ferrous Iron were received empty for sample MW-5R.

For sample MW-4R the HNO3 cap that was supposed to be on the preserved HNO3 was on the unpreserved 250mL poly. Bottles were received this way. Lab analyzed the short holds that were requested.

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

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

General Chemistry
Method SM 3500 FE D: Ferric iron is obtained by subtracting the ferrous result from the total iron result. The ferrous iron results obtained for the following sample was higher than the total iron results: MW-4R (720-65417-1). Note that ferrous iron analyses should be conducted in the field, immediately upon collection.

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

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

Client Sample ID: MW-4R — Lab Sample ID: 720-65417-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	590		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	6.0		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
sec-Butylbenzene	10		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	6.8		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	70		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Naphthalene	280		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Toluene	24		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	65		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	6.3		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	340		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	1600		250		ug/L	5		8260B/CA_LUFT MS	Total/NA
Nitrite as NO2	2.0		1.0		mg/L	1		300.0	Total/NA
Sulfate	32		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	64		10		mg/L	10		300.0	Total/NA
Manganese	1.4		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Ammonia	1.5		0.20		mg/L	1		SM 4500 NH3 G	Total/NA
Orthophosphate as P	0.024		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-5R — Lab Sample ID: 720-65417-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1800		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	4200		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	220		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Naphthalene	1000		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	450		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Toluene	7600		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	3200		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	760		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	23000		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	51000		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA
Nitrite as NO2	1.5		1.0		mg/L	1		300.0	Total/NA
Sulfate	35		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	18		1.0		mg/L	1		300.0	Total/NA
Manganese	0.99		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: 720-65417-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.28		0.20		mg/L	1		SM 4500 NH3 G	Total/NA
Orthophosphate as P	0.15		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-6R — Lab Sample ID: 720-65417-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	12		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	9.4		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
sec-Butylbenzene	8.7		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	32		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	30		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Naphthalene	120		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	17		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Toluene	46		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	170		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	29		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	620		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	1600		250		ug/L	5		8260B/CA_LUFT MS	Total/NA
Nitrite as NO2	2.2		1.0		mg/L	1		300.0	Total/NA
Sulfate	44		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	350		100		mg/L	100		300.0	Total/NA
Manganese	0.93		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	1.5		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	0.73	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA
Ammonia	1.8		0.20		mg/L	1		SM 4500 NH3 G	Total/NA
Orthophosphate as P	1.6		0.20		mg/L	10		SM 4500 P E	Total/NA

Client Sample ID: MW-7R — Lab Sample ID: 720-65417-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3200		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	3800		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
Naphthalene	730		500		ug/L	500		8260B/CA_LUFT MS	Total/NA
Toluene	29000		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	2100		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	560		250		ug/L	500		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

Client Sample ID: MW-7R (Continued) — Lab Sample ID: 720-65417-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	23000		500		ug/L	500		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	78000		25000		ug/L	500		8260B/CA_LUFT MS	Total/NA
Nitrite as NO2	2.7		1.0		mg/L	1		300.0	Total/NA
Sulfate	31		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	350		100		mg/L	100		300.0	Total/NA
Manganese	2.9		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	1.7		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	15	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA
Ferrous Iron	4.9	HF	0.50		mg/L	5		SM 3500 FE D	Total/NA
Ammonia	1.0		0.20		mg/L	1		SM 4500 NH3 G	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 720-65417-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.6		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	3.1		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	2.9		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	17		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	39		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	16		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	9.8		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	0.81		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	17		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	1400		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Sulfate	12		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	2.4		1.0		mg/L	1		300.0	Total/NA
Manganese	1.5		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	1.7		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	9.0	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA
Ferrous Iron	12	HF	1.0		mg/L	10		SM 3500 FE D	Total/NA
Ammonia	0.28		0.20		mg/L	1		SM 4500 NH3 G	Total/NA
Orthophosphate as P	0.032		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 720-65417-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	33		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	12		1.0		mg/L	1		300.0	Total/NA
Manganese	4.7		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	3.6		1.0		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: 720-65417-1

Client Sample ID: MW-9 (Continued) — Lab Sample ID: 720-65417-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ferric Iron	45	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA
Ferrous Iron	0.16	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 720-65417-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	19		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	11		1.0		mg/L	1		300.0	Total/NA
Manganese	0.82		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	5.4		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	67	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA
Ferrous Iron	0.11	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

Client Sample ID: MW-4R
Date Collected: 06/11/15 09:08
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-1
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		2.5		ug/L			06/15/15 16:11	5
Acetone	ND		250		ug/L			06/15/15 16:11	5
Benzene	**590**		2.5		ug/L			06/15/15 16:11	5
Dichlorobromomethane	ND		2.5		ug/L			06/15/15 16:11	5
Bromobenzene	ND		5.0		ug/L			06/15/15 16:11	5
Chlorobromomethane	ND		5.0		ug/L			06/15/15 16:11	5
Bromoform	ND		5.0		ug/L			06/15/15 16:11	5
Bromomethane	ND		5.0		ug/L			06/15/15 16:11	5
2-Butanone (MEK)	ND		250		ug/L			06/15/15 16:11	5
n-Butylbenzene	**6.0**		5.0		ug/L			06/15/15 16:11	5
sec-Butylbenzene	**10**		5.0		ug/L			06/15/15 16:11	5
tert-Butylbenzene	ND		5.0		ug/L			06/15/15 16:11	5
Carbon disulfide	ND		25		ug/L			06/15/15 16:11	5
Carbon tetrachloride	ND		2.5		ug/L			06/15/15 16:11	5
Chlorobenzene	ND		2.5		ug/L			06/15/15 16:11	5
Chloroethane	ND		5.0		ug/L			06/15/15 16:11	5
Chloroform	ND		5.0		ug/L			06/15/15 16:11	5
Chloromethane	ND		5.0		ug/L			06/15/15 16:11	5
2-Chlorotoluene	ND		2.5		ug/L			06/15/15 16:11	5
4-Chlorotoluene	ND		2.5		ug/L			06/15/15 16:11	5
Chlorodibromomethane	ND		2.5		ug/L			06/15/15 16:11	5
1,2-Dichlorobenzene	ND		2.5		ug/L			06/15/15 16:11	5
1,3-Dichlorobenzene	ND		2.5		ug/L			06/15/15 16:11	5
1,4-Dichlorobenzene	ND		2.5		ug/L			06/15/15 16:11	5
1,3-Dichloropropane	ND		5.0		ug/L			06/15/15 16:11	5
1,1-Dichloropropene	ND		2.5		ug/L			06/15/15 16:11	5
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			06/15/15 16:11	5
Ethylene Dibromide	ND		2.5		ug/L			06/15/15 16:11	5
Dibromomethane	ND		2.5		ug/L			06/15/15 16:11	5
Dichlorodifluoromethane	ND		2.5		ug/L			06/15/15 16:11	5
1,1-Dichloroethane	ND		2.5		ug/L			06/15/15 16:11	5
1,2-Dichloroethane	ND		2.5		ug/L			06/15/15 16:11	5
1,1-Dichloroethene	ND		2.5		ug/L			06/15/15 16:11	5
cis-1,2-Dichloroethene	ND		2.5		ug/L			06/15/15 16:11	5
trans-1,2-Dichloroethene	ND		2.5		ug/L			06/15/15 16:11	5
1,2-Dichloropropane	ND		2.5		ug/L			06/15/15 16:11	5
cis-1,3-Dichloropropene	ND		2.5		ug/L			06/15/15 16:11	5
trans-1,3-Dichloropropene	ND		2.5		ug/L			06/15/15 16:11	5
Ethylbenzene	**6.8**		2.5		ug/L			06/15/15 16:11	5
Hexachlorobutadiene	ND		5.0		ug/L			06/15/15 16:11	5
2-Hexanone	ND		250		ug/L			06/15/15 16:11	5
Isopropylbenzene	**70**		2.5		ug/L			06/15/15 16:11	5
4-Isopropyltoluene	ND		5.0		ug/L			06/15/15 16:11	5
Methylene Chloride	ND		25		ug/L			06/15/15 16:11	5
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			06/15/15 16:11	5
Naphthalene	**280**		5.0		ug/L			06/15/15 16:11	5
N-Propylbenzene	ND		5.0		ug/L			06/15/15 16:11	5
Styrene	ND		2.5		ug/L			06/15/15 16:11	5
1,1,1,2-Tetrachloroethane	ND		2.5		ug/L			06/15/15 16:11	5

Client Sample ID: MW-4R
Date Collected: 06/11/15 09:08
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-1
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		2.5		ug/L			06/15/15 16:11	5
Tetrachloroethene	ND		2.5		ug/L			06/15/15 16:11	5
Toluene	**24**		2.5		ug/L			06/15/15 16:11	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			06/15/15 16:11	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			06/15/15 16:11	5
1,1,1-Trichloroethane	ND		2.5		ug/L			06/15/15 16:11	5
1,1,2-Trichloroethane	ND		2.5		ug/L			06/15/15 16:11	5
Trichloroethene	ND		2.5		ug/L			06/15/15 16:11	5
Trichlorofluoromethane	ND		5.0		ug/L			06/15/15 16:11	5
1,2,3-Trichloropropane	ND		2.5		ug/L			06/15/15 16:11	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5		ug/L			06/15/15 16:11	5
1,2,4-Trimethylbenzene	**65**		2.5		ug/L			06/15/15 16:11	5
1,3,5-Trimethylbenzene	**6.3**		2.5		ug/L			06/15/15 16:11	5
Vinyl acetate	ND		50		ug/L			06/15/15 16:11	5
Vinyl chloride	ND		2.5		ug/L			06/15/15 16:11	5
Xylenes, Total	**340**		5.0		ug/L			06/15/15 16:11	5
2,2-Dichloropropane	ND		2.5		ug/L			06/15/15 16:11	5
Gasoline Range Organics (GRO) -C5-C12	**1600**		250		ug/L			06/15/15 16:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*06/15/15 16:11*	*5*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 130*		*06/15/15 16:11*	*5*
Toluene-d8 (Surr)	*102*		*70 - 130*		*06/15/15 16:11*	*5*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	**2.0**		1.0		mg/L			06/11/15 18:42	1
Sulfate	**32**		10		mg/L			06/11/15 18:59	10
Nitrate as NO3	**64**		10		mg/L			06/11/15 18:59	10

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		06/16/15 14:32	06/17/15 16:18	1
Potassium	ND		1.0		mg/L		06/16/15 14:32	06/17/15 16:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND	HF	0.10		mg/L			06/17/15 16:37	1
Ferrous Iron	ND	HF	0.10		mg/L			06/12/15 11:00	1
Ammonia	**1.5**		0.20		mg/L		06/15/15 17:00	06/15/15 20:42	1
Orthophosphate as P	**0.024**		0.020		mg/L			06/12/15 22:37	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

Client Sample ID: MW-5R
Date Collected: 06/11/15 09:51
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-2
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			06/15/15 15:40	100
Acetone	ND		5000		ug/L			06/15/15 15:40	100
Benzene	**1800**		50		ug/L			06/15/15 15:40	100
Dichlorobromomethane	ND		50		ug/L			06/15/15 15:40	100
Bromobenzene	ND		100		ug/L			06/15/15 15:40	100
Chlorobromomethane	ND		100		ug/L			06/15/15 15:40	100
Bromoform	ND		100		ug/L			06/15/15 15:40	100
Bromomethane	ND		100		ug/L			06/15/15 15:40	100
2-Butanone (MEK)	ND		5000		ug/L			06/15/15 15:40	100
n-Butylbenzene	ND		100		ug/L			06/15/15 15:40	100
sec-Butylbenzene	ND		100		ug/L			06/15/15 15:40	100
tert-Butylbenzene	ND		100		ug/L			06/15/15 15:40	100
Carbon disulfide	ND		500		ug/L			06/15/15 15:40	100
Carbon tetrachloride	ND		50		ug/L			06/15/15 15:40	100
Chlorobenzene	ND		50		ug/L			06/15/15 15:40	100
Chloroethane	ND		100		ug/L			06/15/15 15:40	100
Chloroform	ND		100		ug/L			06/15/15 15:40	100
Chloromethane	ND		100		ug/L			06/15/15 15:40	100
2-Chlorotoluene	ND		50		ug/L			06/15/15 15:40	100
4-Chlorotoluene	ND		50		ug/L			06/15/15 15:40	100
Chlorodibromomethane	ND		50		ug/L			06/15/15 15:40	100
1,2-Dichlorobenzene	ND		50		ug/L			06/15/15 15:40	100
1,3-Dichlorobenzene	ND		50		ug/L			06/15/15 15:40	100
1,4-Dichlorobenzene	ND		50		ug/L			06/15/15 15:40	100
1,3-Dichloropropane	ND		100		ug/L			06/15/15 15:40	100
1,1-Dichloropropene	ND		50		ug/L			06/15/15 15:40	100
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			06/15/15 15:40	100
Ethylene Dibromide	ND		50		ug/L			06/15/15 15:40	100
Dibromomethane	ND		50		ug/L			06/15/15 15:40	100
Dichlorodifluoromethane	ND		50		ug/L			06/15/15 15:40	100
1,1-Dichloroethane	ND		50		ug/L			06/15/15 15:40	100
1,2-Dichloroethane	ND		50		ug/L			06/15/15 15:40	100
1,1-Dichloroethene	ND		50		ug/L			06/15/15 15:40	100
cis-1,2-Dichloroethene	ND		50		ug/L			06/15/15 15:40	100
trans-1,2-Dichloroethene	ND		50		ug/L			06/15/15 15:40	100
1,2-Dichloropropane	ND		50		ug/L			06/15/15 15:40	100
cis-1,3-Dichloropropene	ND		50		ug/L			06/15/15 15:40	100
trans-1,3-Dichloropropene	ND		50		ug/L			06/15/15 15:40	100
Ethylbenzene	**4200**		50		ug/L			06/15/15 15:40	100
Hexachlorobutadiene	ND		100		ug/L			06/15/15 15:40	100
2-Hexanone	ND		5000		ug/L			06/15/15 15:40	100
Isopropylbenzene	**220**		50		ug/L			06/15/15 15:40	100
4-Isopropyltoluene	ND		100		ug/L			06/15/15 15:40	100
Methylene Chloride	ND		500		ug/L			06/15/15 15:40	100
4-Methyl-2-pentanone (MIBK)	ND		5000		ug/L			06/15/15 15:40	100
Naphthalene	**1000**		100		ug/L			06/15/15 15:40	100
N-Propylbenzene	**450**		100		ug/L			06/15/15 15:40	100
Styrene	ND		50		ug/L			06/15/15 15:40	100
1,1,1,2-Tetrachloroethane	ND		50		ug/L			06/15/15 15:40	100

Client Sample ID: MW-5R
Date Collected: 06/11/15 09:51
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-2
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			06/15/15 15:40	100
Tetrachloroethene	ND		50		ug/L			06/15/15 15:40	100
Toluene	**7600**		50		ug/L			06/15/15 15:40	100
1,2,3-Trichlorobenzene	ND		100		ug/L			06/15/15 15:40	100
1,2,4-Trichlorobenzene	ND		100		ug/L			06/15/15 15:40	100
1,1,1-Trichloroethane	ND		50		ug/L			06/15/15 15:40	100
1,1,2-Trichloroethane	ND		50		ug/L			06/15/15 15:40	100
Trichloroethene	ND		50		ug/L			06/15/15 15:40	100
Trichlorofluoromethane	ND		100		ug/L			06/15/15 15:40	100
1,2,3-Trichloropropane	ND		50		ug/L			06/15/15 15:40	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50		ug/L			06/15/15 15:40	100
1,2,4-Trimethylbenzene	**3200**		50		ug/L			06/15/15 15:40	100
1,3,5-Trimethylbenzene	**760**		50		ug/L			06/15/15 15:40	100
Vinyl acetate	ND		1000		ug/L			06/15/15 15:40	100
Vinyl chloride	ND		50		ug/L			06/15/15 15:40	100
Xylenes, Total	**23000**		100		ug/L			06/15/15 15:40	100
2,2-Dichloropropane	ND		50		ug/L			06/15/15 15:40	100
Gasoline Range Organics (GRO) -C5-C12	**51000**		5000		ug/L			06/15/15 15:40	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*06/15/15 15:40*	*100*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 130*		*06/15/15 15:40*	*100*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/15/15 15:40*	*100*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	**1.5**		1.0		mg/L			06/11/15 21:03	1
Sulfate	**35**		10		mg/L			06/11/15 21:21	10
Nitrate as NO3	**18**		1.0		mg/L			06/11/15 21:03	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.99**		0.020		mg/L		06/16/15 14:32	06/17/15 16:23	1
Potassium	ND		1.0		mg/L		06/16/15 14:32	06/17/15 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**0.28**		0.20		mg/L		06/15/15 17:00	06/15/15 20:45	1
Orthophosphate as P	**0.15**		0.020		mg/L			06/12/15 22:37	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

Client Sample ID: MW-6R
Date Collected: 06/11/15 11:00
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-3
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			06/15/15 15:10	5
Acetone	ND		250		ug/L			06/15/15 15:10	5
Benzene	**12**		2.5		ug/L			06/15/15 15:10	5
Dichlorobromomethane	ND		2.5		ug/L			06/15/15 15:10	5
Bromobenzene	ND		5.0		ug/L			06/15/15 15:10	5
Chlorobromomethane	ND		5.0		ug/L			06/15/15 15:10	5
Bromoform	ND		5.0		ug/L			06/15/15 15:10	5
Bromomethane	ND		5.0		ug/L			06/15/15 15:10	5
2-Butanone (MEK)	ND		250		ug/L			06/15/15 15:10	5
n-Butylbenzene	**9.4**		5.0		ug/L			06/15/15 15:10	5
sec-Butylbenzene	**8.7**		5.0		ug/L			06/15/15 15:10	5
tert-Butylbenzene	ND		5.0		ug/L			06/15/15 15:10	5
Carbon disulfide	ND		25		ug/L			06/15/15 15:10	5
Carbon tetrachloride	ND		2.5		ug/L			06/15/15 15:10	5
Chlorobenzene	ND		2.5		ug/L			06/15/15 15:10	5
Chloroethane	ND		5.0		ug/L			06/15/15 15:10	5
Chloroform	ND		5.0		ug/L			06/15/15 15:10	5
Chloromethane	ND		5.0		ug/L			06/15/15 15:10	5
2-Chlorotoluene	ND		2.5		ug/L			06/15/15 15:10	5
4-Chlorotoluene	ND		2.5		ug/L			06/15/15 15:10	5
Chlorodibromomethane	ND		2.5		ug/L			06/15/15 15:10	5
1,2-Dichlorobenzene	ND		2.5		ug/L			06/15/15 15:10	5
1,3-Dichlorobenzene	ND		2.5		ug/L			06/15/15 15:10	5
1,4-Dichlorobenzene	ND		2.5		ug/L			06/15/15 15:10	5
1,3-Dichloropropane	ND		5.0		ug/L			06/15/15 15:10	5
1,1-Dichloropropene	ND		2.5		ug/L			06/15/15 15:10	5
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			06/15/15 15:10	5
Ethylene Dibromide	ND		2.5		ug/L			06/15/15 15:10	5
Dibromomethane	ND		2.5		ug/L			06/15/15 15:10	5
Dichlorodifluoromethane	ND		2.5		ug/L			06/15/15 15:10	5
1,1-Dichloroethane	ND		2.5		ug/L			06/15/15 15:10	5
1,2-Dichloroethane	ND		2.5		ug/L			06/15/15 15:10	5
1,1-Dichloroethene	ND		2.5		ug/L			06/15/15 15:10	5
cis-1,2-Dichloroethene	ND		2.5		ug/L			06/15/15 15:10	5
trans-1,2-Dichloroethene	ND		2.5		ug/L			06/15/15 15:10	5
1,2-Dichloropropane	ND		2.5		ug/L			06/15/15 15:10	5
cis-1,3-Dichloropropene	ND		2.5		ug/L			06/15/15 15:10	5
trans-1,3-Dichloropropene	ND		2.5		ug/L			06/15/15 15:10	5
Ethylbenzene	**32**		2.5		ug/L			06/15/15 15:10	5
Hexachlorobutadiene	ND		5.0		ug/L			06/15/15 15:10	5
2-Hexanone	ND		250		ug/L			06/15/15 15:10	5
Isopropylbenzene	**30**		2.5		ug/L			06/15/15 15:10	5
4-Isopropyltoluene	ND		5.0		ug/L			06/15/15 15:10	5
Methylene Chloride	ND		25		ug/L			06/15/15 15:10	5
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			06/15/15 15:10	5
Naphthalene	**120**		5.0		ug/L			06/15/15 15:10	5
N-Propylbenzene	**17**		5.0		ug/L			06/15/15 15:10	5
Styrene	ND		2.5		ug/L			06/15/15 15:10	5
1,1,1,2-Tetrachloroethane	ND		2.5		ug/L			06/15/15 15:10	5

Client Sample ID: MW-6R
Date Collected: 06/11/15 11:00
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-3
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			06/15/15 15:10	5
Tetrachloroethene	ND		2.5		ug/L			06/15/15 15:10	5
Toluene	**46**		2.5		ug/L			06/15/15 15:10	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			06/15/15 15:10	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			06/15/15 15:10	5
1,1,1-Trichloroethane	ND		2.5		ug/L			06/15/15 15:10	5
1,1,2-Trichloroethane	ND		2.5		ug/L			06/15/15 15:10	5
Trichloroethene	ND		2.5		ug/L			06/15/15 15:10	5
Trichlorofluoromethane	ND		5.0		ug/L			06/15/15 15:10	5
1,2,3-Trichloropropane	ND		2.5		ug/L			06/15/15 15:10	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5		ug/L			06/15/15 15:10	5
1,2,4-Trimethylbenzene	**170**		2.5		ug/L			06/15/15 15:10	5
1,3,5-Trimethylbenzene	**29**		2.5		ug/L			06/15/15 15:10	5
Vinyl acetate	ND		50		ug/L			06/15/15 15:10	5
Vinyl chloride	ND		2.5		ug/L			06/15/15 15:10	5
Xylenes, Total	**620**		5.0		ug/L			06/15/15 15:10	5
2,2-Dichloropropane	ND		2.5		ug/L			06/15/15 15:10	5
Gasoline Range Organics (GRO) -C5-C12	**1600**		250		ug/L			06/15/15 15:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*06/15/15 15:10*	*5*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 130*		*06/15/15 15:10*	*5*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/15/15 15:10*	*5*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	**2.2**		1.0		mg/L			06/11/15 21:38	1
Sulfate	**44**		10		mg/L			06/11/15 21:55	10
Nitrate as NO3	**350**		100		mg/L			06/12/15 10:28	100

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.93**		0.020		mg/L		06/16/15 14:32	06/17/15 16:28	1
Potassium	**1.5**		1.0		mg/L		06/16/15 14:32	06/17/15 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**0.73**	**HF**	0.10		mg/L			06/17/15 16:37	1
Ferrous Iron	ND	HF	0.10		mg/L			06/12/15 11:00	1
Ammonia	**1.8**		0.20		mg/L		06/15/15 17:00	06/15/15 20:48	1
Orthophosphate as P	**1.6**		0.20		mg/L			06/12/15 22:37	10

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

Client Sample ID: MW-7R
Date Collected: 06/11/15 13:46
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-4
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			06/15/15 14:40	500
Acetone	ND		25000		ug/L			06/15/15 14:40	500
Benzene	**3200**		250		ug/L			06/15/15 14:40	500
Dichlorobromomethane	ND		250		ug/L			06/15/15 14:40	500
Bromobenzene	ND		500		ug/L			06/15/15 14:40	500
Chlorobromomethane	ND		500		ug/L			06/15/15 14:40	500
Bromoform	ND		500		ug/L			06/15/15 14:40	500
Bromomethane	ND		500		ug/L			06/15/15 14:40	500
2-Butanone (MEK)	ND		25000		ug/L			06/15/15 14:40	500
n-Butylbenzene	ND		500		ug/L			06/15/15 14:40	500
sec-Butylbenzene	ND		500		ug/L			06/15/15 14:40	500
tert-Butylbenzene	ND		500		ug/L			06/15/15 14:40	500
Carbon disulfide	ND		2500		ug/L			06/15/15 14:40	500
Carbon tetrachloride	ND		250		ug/L			06/15/15 14:40	500
Chlorobenzene	ND		250		ug/L			06/15/15 14:40	500
Chloroethane	ND		500		ug/L			06/15/15 14:40	500
Chloroform	ND		500		ug/L			06/15/15 14:40	500
Chloromethane	ND		500		ug/L			06/15/15 14:40	500
2-Chlorotoluene	ND		250		ug/L			06/15/15 14:40	500
4-Chlorotoluene	ND		250		ug/L			06/15/15 14:40	500
Chlorodibromomethane	ND		250		ug/L			06/15/15 14:40	500
1,2-Dichlorobenzene	ND		250		ug/L			06/15/15 14:40	500
1,3-Dichlorobenzene	ND		250		ug/L			06/15/15 14:40	500
1,4-Dichlorobenzene	ND		250		ug/L			06/15/15 14:40	500
1,3-Dichloropropane	ND		500		ug/L			06/15/15 14:40	500
1,1-Dichloropropene	ND		250		ug/L			06/15/15 14:40	500
1,2-Dibromo-3-Chloropropane	ND		500		ug/L			06/15/15 14:40	500
Ethylene Dibromide	ND		250		ug/L			06/15/15 14:40	500
Dibromomethane	ND		250		ug/L			06/15/15 14:40	500
Dichlorodifluoromethane	ND		250		ug/L			06/15/15 14:40	500
1,1-Dichloroethane	ND		250		ug/L			06/15/15 14:40	500
1,2-Dichloroethane	ND		250		ug/L			06/15/15 14:40	500
1,1-Dichloroethene	ND		250		ug/L			06/15/15 14:40	500
cis-1,2-Dichloroethene	ND		250		ug/L			06/15/15 14:40	500
trans-1,2-Dichloroethene	ND		250		ug/L			06/15/15 14:40	500
1,2-Dichloropropane	ND		250		ug/L			06/15/15 14:40	500
cis-1,3-Dichloropropene	ND		250		ug/L			06/15/15 14:40	500
trans-1,3-Dichloropropene	ND		250		ug/L			06/15/15 14:40	500
Ethylbenzene	**3800**		250		ug/L			06/15/15 14:40	500
Hexachlorobutadiene	ND		500		ug/L			06/15/15 14:40	500
2-Hexanone	ND		25000		ug/L			06/15/15 14:40	500
Isopropylbenzene	ND		250		ug/L			06/15/15 14:40	500
4-Isopropyltoluene	ND		500		ug/L			06/15/15 14:40	500
Methylene Chloride	ND		2500		ug/L			06/15/15 14:40	500
4-Methyl-2-pentanone (MIBK)	ND		25000		ug/L			06/15/15 14:40	500
Naphthalene	**730**		500		ug/L			06/15/15 14:40	500
N-Propylbenzene	ND		500		ug/L			06/15/15 14:40	500
Styrene	ND		250		ug/L			06/15/15 14:40	500
1,1,1,2-Tetrachloroethane	ND		250		ug/L			06/15/15 14:40	500

Client Sample ID: MW-7R
Date Collected: 06/11/15 13:46
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-4
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			06/15/15 14:40	500
Tetrachloroethene	ND		250		ug/L			06/15/15 14:40	500
Toluene	**29000**		250		ug/L			06/15/15 14:40	500
1,2,3-Trichlorobenzene	ND		500		ug/L			06/15/15 14:40	500
1,2,4-Trichlorobenzene	ND		500		ug/L			06/15/15 14:40	500
1,1,1-Trichloroethane	ND		250		ug/L			06/15/15 14:40	500
1,1,2-Trichloroethane	ND		250		ug/L			06/15/15 14:40	500
Trichloroethene	ND		250		ug/L			06/15/15 14:40	500
Trichlorofluoromethane	ND		500		ug/L			06/15/15 14:40	500
1,2,3-Trichloropropane	ND		250		ug/L			06/15/15 14:40	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250		ug/L			06/15/15 14:40	500
1,2,4-Trimethylbenzene	**2100**		250		ug/L			06/15/15 14:40	500
1,3,5-Trimethylbenzene	**560**		250		ug/L			06/15/15 14:40	500
Vinyl acetate	ND		5000		ug/L			06/15/15 14:40	500
Vinyl chloride	ND		250		ug/L			06/15/15 14:40	500
Xylenes, Total	**23000**		500		ug/L			06/15/15 14:40	500
2,2-Dichloropropane	ND		250		ug/L			06/15/15 14:40	500
Gasoline Range Organics (GRO) -C5-C12	**78000**		25000		ug/L			06/15/15 14:40	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*06/15/15 14:40*	*500*
1,2-Dichloroethane-d4 (Surr)	*89*		*72 - 130*		*06/15/15 14:40*	*500*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/15/15 14:40*	*500*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	**2.7**		1.0		mg/L			06/11/15 22:46	1
Sulfate	**31**		10		mg/L			06/11/15 23:03	10
Nitrate as NO3	**350**		100		mg/L			06/12/15 10:45	100

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.9**		0.020		mg/L		06/16/15 14:32	06/17/15 16:33	1
Potassium	**1.7**		1.0		mg/L		06/16/15 14:32	06/17/15 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**15**	**HF**	0.10		mg/L			06/17/15 16:37	1
Ferrous Iron	**4.9**	**HF**	0.50		mg/L			06/12/15 11:30	5
Ammonia	**1.0**		0.20		mg/L		06/15/15 17:00	06/15/15 20:51	1
Orthophosphate as P	ND		0.020		mg/L			06/12/15 22:37	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

Client Sample ID: MW-8
Date Collected: 06/11/15 14:25
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-5
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			06/15/15 14:09	1
Acetone	ND		50		ug/L			06/15/15 14:09	1
Benzene	**6.6**		0.50		ug/L			06/15/15 14:09	1
Dichlorobromomethane	ND		0.50		ug/L			06/15/15 14:09	1
Bromobenzene	ND		1.0		ug/L			06/15/15 14:09	1
Chlorobromomethane	ND		1.0		ug/L			06/15/15 14:09	1
Bromoform	ND		1.0		ug/L			06/15/15 14:09	1
Bromomethane	ND		1.0		ug/L			06/15/15 14:09	1
2-Butanone (MEK)	ND		50		ug/L			06/15/15 14:09	1
n-Butylbenzene	**1.7**		1.0		ug/L			06/15/15 14:09	1
sec-Butylbenzene	**3.1**		1.0		ug/L			06/15/15 14:09	1
tert-Butylbenzene	ND		1.0		ug/L			06/15/15 14:09	1
Carbon disulfide	ND		5.0		ug/L			06/15/15 14:09	1
Carbon tetrachloride	ND		0.50		ug/L			06/15/15 14:09	1
Chlorobenzene	ND		0.50		ug/L			06/15/15 14:09	1
Chloroethane	ND		1.0		ug/L			06/15/15 14:09	1
Chloroform	ND		1.0		ug/L			06/15/15 14:09	1
Chloromethane	ND		1.0		ug/L			06/15/15 14:09	1
2-Chlorotoluene	ND		0.50		ug/L			06/15/15 14:09	1
4-Chlorotoluene	ND		0.50		ug/L			06/15/15 14:09	1
Chlorodibromomethane	ND		0.50		ug/L			06/15/15 14:09	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/15/15 14:09	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/15/15 14:09	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/15/15 14:09	1
1,3-Dichloropropane	ND		1.0		ug/L			06/15/15 14:09	1
1,1-Dichloropropene	ND		0.50		ug/L			06/15/15 14:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/15/15 14:09	1
Ethylene Dibromide	ND		0.50		ug/L			06/15/15 14:09	1
Dibromomethane	ND		0.50		ug/L			06/15/15 14:09	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/15/15 14:09	1
1,1-Dichloroethane	ND		0.50		ug/L			06/15/15 14:09	1
1,2-Dichloroethane	ND		0.50		ug/L			06/15/15 14:09	1
1,1-Dichloroethene	ND		0.50		ug/L			06/15/15 14:09	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 14:09	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 14:09	1
1,2-Dichloropropane	ND		0.50		ug/L			06/15/15 14:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 14:09	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 14:09	1
Ethylbenzene	**2.9**		0.50		ug/L			06/15/15 14:09	1
Hexachlorobutadiene	ND		1.0		ug/L			06/15/15 14:09	1
2-Hexanone	ND		50		ug/L			06/15/15 14:09	1
Isopropylbenzene	**17**		0.50		ug/L			06/15/15 14:09	1
4-Isopropyltoluene	ND		1.0		ug/L			06/15/15 14:09	1
Methylene Chloride	ND		5.0		ug/L			06/15/15 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/15/15 14:09	1
Naphthalene	**39**		1.0		ug/L			06/15/15 14:09	1
N-Propylbenzene	**16**		1.0		ug/L			06/15/15 14:09	1
Styrene	ND		0.50		ug/L			06/15/15 14:09	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/15/15 14:09	1

Client Sample ID: MW-8
Date Collected: 06/11/15 14:25
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-5
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			06/15/15 14:09	1
Tetrachloroethene	ND		0.50		ug/L			06/15/15 14:09	1
Toluene	**9.8**		0.50		ug/L			06/15/15 14:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/15/15 14:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/15/15 14:09	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/15/15 14:09	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/15/15 14:09	1
Trichloroethene	ND		0.50		ug/L			06/15/15 14:09	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/15 14:09	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/15/15 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/15/15 14:09	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/15/15 14:09	1
1,3,5-Trimethylbenzene	**0.81**		0.50		ug/L			06/15/15 14:09	1
Vinyl acetate	ND		10		ug/L			06/15/15 14:09	1
Vinyl chloride	ND		0.50		ug/L			06/15/15 14:09	1
Xylenes, Total	**17**		1.0		ug/L			06/15/15 14:09	1
2,2-Dichloropropane	ND		0.50		ug/L			06/15/15 14:09	1
Gasoline Range Organics (GRO) -C5-C12	**1400**		50		ug/L			06/15/15 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*67 - 130*		*06/15/15 14:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 130*		*06/15/15 14:09*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*06/15/15 14:09*	*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			06/11/15 23:20	1
Sulfate	**12**		1.0		mg/L			06/11/15 23:20	1
Nitrate as NO3	**2.4**		1.0		mg/L			06/11/15 23:20	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.5**		0.020		mg/L		06/16/15 14:32	06/17/15 16:49	1
Potassium	**1.7**		1.0		mg/L		06/16/15 14:32	06/17/15 16:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**9.0**	**HF**	0.10		mg/L			06/17/15 16:37	1
Ferrous Iron	**12**	**HF**	1.0		mg/L			06/12/15 11:30	10
Ammonia	**0.28**		0.20		mg/L		06/15/15 17:00	06/15/15 20:59	1
Orthophosphate as P	**0.032**		0.020		mg/L			06/12/15 22:37	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

Client Sample ID: MW-9
Date Collected: 06/11/15 15:05
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-6
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			06/15/15 13:39	1
Acetone	ND		50		ug/L			06/15/15 13:39	1
Benzene	ND		0.50		ug/L			06/15/15 13:39	1
Dichlorobromomethane	ND		0.50		ug/L			06/15/15 13:39	1
Bromobenzene	ND		1.0		ug/L			06/15/15 13:39	1
Chlorobromomethane	ND		1.0		ug/L			06/15/15 13:39	1
Bromoform	ND		1.0		ug/L			06/15/15 13:39	1
Bromomethane	ND		1.0		ug/L			06/15/15 13:39	1
2-Butanone (MEK)	ND		50		ug/L			06/15/15 13:39	1
n-Butylbenzene	ND		1.0		ug/L			06/15/15 13:39	1
sec-Butylbenzene	ND		1.0		ug/L			06/15/15 13:39	1
tert-Butylbenzene	ND		1.0		ug/L			06/15/15 13:39	1
Carbon disulfide	ND		5.0		ug/L			06/15/15 13:39	1
Carbon tetrachloride	ND		0.50		ug/L			06/15/15 13:39	1
Chlorobenzene	ND		0.50		ug/L			06/15/15 13:39	1
Chloroethane	ND		1.0		ug/L			06/15/15 13:39	1
Chloroform	ND		1.0		ug/L			06/15/15 13:39	1
Chloromethane	ND		1.0		ug/L			06/15/15 13:39	1
2-Chlorotoluene	ND		0.50		ug/L			06/15/15 13:39	1
4-Chlorotoluene	ND		0.50		ug/L			06/15/15 13:39	1
Chlorodibromomethane	ND		0.50		ug/L			06/15/15 13:39	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/15/15 13:39	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/15/15 13:39	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/15/15 13:39	1
1,3-Dichloropropane	ND		1.0		ug/L			06/15/15 13:39	1
1,1-Dichloropropene	ND		0.50		ug/L			06/15/15 13:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/15/15 13:39	1
Ethylene Dibromide	ND		0.50		ug/L			06/15/15 13:39	1
Dibromomethane	ND		0.50		ug/L			06/15/15 13:39	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/15/15 13:39	1
1,1-Dichloroethane	ND		0.50		ug/L			06/15/15 13:39	1
1,2-Dichloroethane	ND		0.50		ug/L			06/15/15 13:39	1
1,1-Dichloroethene	ND		0.50		ug/L			06/15/15 13:39	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 13:39	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 13:39	1
1,2-Dichloropropane	ND		0.50		ug/L			06/15/15 13:39	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 13:39	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 13:39	1
Ethylbenzene	ND		0.50		ug/L			06/15/15 13:39	1
Hexachlorobutadiene	ND		1.0		ug/L			06/15/15 13:39	1
2-Hexanone	ND		50		ug/L			06/15/15 13:39	1
Isopropylbenzene	ND		0.50		ug/L			06/15/15 13:39	1
4-Isopropyltoluene	ND		1.0		ug/L			06/15/15 13:39	1
Methylene Chloride	ND		5.0		ug/L			06/15/15 13:39	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/15/15 13:39	1
Naphthalene	ND		1.0		ug/L			06/15/15 13:39	1
N-Propylbenzene	ND		1.0		ug/L			06/15/15 13:39	1
Styrene	ND		0.50		ug/L			06/15/15 13:39	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/15/15 13:39	1

Client Sample ID: MW-9
Date Collected: 06/11/15 15:05
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-6
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			06/15/15 13:39	1
Tetrachloroethene	ND		0.50		ug/L			06/15/15 13:39	1
Toluene	ND		0.50		ug/L			06/15/15 13:39	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/15/15 13:39	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/15/15 13:39	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/15/15 13:39	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/15/15 13:39	1
Trichloroethene	ND		0.50		ug/L			06/15/15 13:39	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/15 13:39	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/15/15 13:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/15/15 13:39	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/15/15 13:39	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/15/15 13:39	1
Vinyl acetate	ND		10		ug/L			06/15/15 13:39	1
Vinyl chloride	ND		0.50		ug/L			06/15/15 13:39	1
Xylenes, Total	ND		1.0		ug/L			06/15/15 13:39	1
2,2-Dichloropropane	ND		0.50		ug/L			06/15/15 13:39	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/15/15 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*06/15/15 13:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*72 - 130*		*06/15/15 13:39*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/15/15 13:39*	*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			06/11/15 23:54	1
Sulfate	**33**		10		mg/L			06/12/15 00:11	10
Nitrate as NO3	**12**		1.0		mg/L			06/11/15 23:54	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**4.7**		0.020		mg/L		06/16/15 14:32	06/17/15 16:54	1
Potassium	**3.6**		1.0		mg/L		06/16/15 14:32	06/17/15 16:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**45**	**HF**	0.10		mg/L			06/17/15 16:37	1
Ferrous Iron	**0.16**	**HF**	0.10		mg/L			06/12/15 11:00	1
Ammonia	ND		0.20		mg/L		06/15/15 17:00	06/15/15 21:02	1
Orthophosphate as P	ND		0.020		mg/L			06/12/15 22:37	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

Client Sample ID: MW-10
Date Collected: 06/11/15 11:20
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-7
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			06/15/15 13:09	1
Acetone	ND		50		ug/L			06/15/15 13:09	1
Benzene	ND		0.50		ug/L			06/15/15 13:09	1
Dichlorobromomethane	ND		0.50		ug/L			06/15/15 13:09	1
Bromobenzene	ND		1.0		ug/L			06/15/15 13:09	1
Chlorobromomethane	ND		1.0		ug/L			06/15/15 13:09	1
Bromoform	ND		1.0		ug/L			06/15/15 13:09	1
Bromomethane	ND		1.0		ug/L			06/15/15 13:09	1
2-Butanone (MEK)	ND		50		ug/L			06/15/15 13:09	1
n-Butylbenzene	ND		1.0		ug/L			06/15/15 13:09	1
sec-Butylbenzene	ND		1.0		ug/L			06/15/15 13:09	1
tert-Butylbenzene	ND		1.0		ug/L			06/15/15 13:09	1
Carbon disulfide	ND		5.0		ug/L			06/15/15 13:09	1
Carbon tetrachloride	ND		0.50		ug/L			06/15/15 13:09	1
Chlorobenzene	ND		0.50		ug/L			06/15/15 13:09	1
Chloroethane	ND		1.0		ug/L			06/15/15 13:09	1
Chloroform	ND		1.0		ug/L			06/15/15 13:09	1
Chloromethane	ND		1.0		ug/L			06/15/15 13:09	1
2-Chlorotoluene	ND		0.50		ug/L			06/15/15 13:09	1
4-Chlorotoluene	ND		0.50		ug/L			06/15/15 13:09	1
Chlorodibromomethane	ND		0.50		ug/L			06/15/15 13:09	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/15/15 13:09	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/15/15 13:09	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/15/15 13:09	1
1,3-Dichloropropane	ND		1.0		ug/L			06/15/15 13:09	1
1,1-Dichloropropene	ND		0.50		ug/L			06/15/15 13:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/15/15 13:09	1
Ethylene Dibromide	ND		0.50		ug/L			06/15/15 13:09	1
Dibromomethane	ND		0.50		ug/L			06/15/15 13:09	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/15/15 13:09	1
1,1-Dichloroethane	ND		0.50		ug/L			06/15/15 13:09	1
1,2-Dichloroethane	ND		0.50		ug/L			06/15/15 13:09	1
1,1-Dichloroethene	ND		0.50		ug/L			06/15/15 13:09	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 13:09	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 13:09	1
1,2-Dichloropropane	ND		0.50		ug/L			06/15/15 13:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 13:09	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 13:09	1
Ethylbenzene	ND		0.50		ug/L			06/15/15 13:09	1
Hexachlorobutadiene	ND		1.0		ug/L			06/15/15 13:09	1
2-Hexanone	ND		50		ug/L			06/15/15 13:09	1
Isopropylbenzene	ND		0.50		ug/L			06/15/15 13:09	1
4-Isopropyltoluene	ND		1.0		ug/L			06/15/15 13:09	1
Methylene Chloride	ND		5.0		ug/L			06/15/15 13:09	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/15/15 13:09	1
Naphthalene	ND		1.0		ug/L			06/15/15 13:09	1
N-Propylbenzene	ND		1.0		ug/L			06/15/15 13:09	1
Styrene	ND		0.50		ug/L			06/15/15 13:09	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/15/15 13:09	1

Client Sample ID: MW-10
Date Collected: 06/11/15 11:20
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-7
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			06/15/15 13:09	1
Tetrachloroethene	ND		0.50		ug/L			06/15/15 13:09	1
Toluene	ND		0.50		ug/L			06/15/15 13:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/15/15 13:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/15/15 13:09	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/15/15 13:09	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/15/15 13:09	1
Trichloroethene	ND		0.50		ug/L			06/15/15 13:09	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/15 13:09	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/15/15 13:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/15/15 13:09	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/15/15 13:09	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/15/15 13:09	1
Vinyl acetate	ND		10		ug/L			06/15/15 13:09	1
Vinyl chloride	ND		0.50		ug/L			06/15/15 13:09	1
Xylenes, Total	ND		1.0		ug/L			06/15/15 13:09	1
2,2-Dichloropropane	ND		0.50		ug/L			06/15/15 13:09	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/15/15 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*		*06/15/15 13:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*72 - 130*		*06/15/15 13:09*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*06/15/15 13:09*	*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			06/12/15 00:29	1
Sulfate	**19**		1.0		mg/L			06/12/15 00:29	1
Nitrate as NO3	**11**		1.0		mg/L			06/12/15 00:29	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.82**		0.020		mg/L		06/16/15 14:32	06/17/15 16:59	1
Potassium	**5.4**		1.0		mg/L		06/16/15 14:32	06/17/15 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**67**	**HF**	0.10		mg/L			06/17/15 16:37	1
Ferrous Iron	**0.11**	**HF**	0.10		mg/L			06/12/15 11:00	1
Ammonia	ND		0.20		mg/L		06/15/15 17:00	06/15/15 21:05	1
Orthophosphate as P	ND		0.020		mg/L			06/12/15 22:37	1

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

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)
720-65417-1	MW-4R	102	90	102
720-65417-2	MW-5R	101	87	101
720-65417-3	MW-6R	102	90	100
720-65417-4	MW-7R	102	89	100
720-65417-5	MW-8	105	90	99
720-65417-6	MW-9	102	89	100
720-65417-7	MW-10	100	86	99
720-65417-7 MS	MW-10	100	85	102
720-65417-7 MSD	MW-10	100	87	99
LCS 720-183592/6	Lab Control Sample	97	82	100
LCS 720-183592/8	Lab Control Sample	103	87	98
LCSD 720-183592/7	Lab Control Sample Dup	101	82	99
LCSD 720-183592/9	Lab Control Sample Dup	98	85	99
MB 720-183592/5	Method Blank	101	88	97

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 720-183592/5
Matrix: Water
Analysis Batch: 183592

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			06/15/15 09:37	1
Acetone	ND		50		ug/L			06/15/15 09:37	1
Benzene	ND		0.50		ug/L			06/15/15 09:37	1
Dichlorobromomethane	ND		0.50		ug/L			06/15/15 09:37	1
Bromobenzene	ND		1.0		ug/L			06/15/15 09:37	1
Chlorobromomethane	ND		1.0		ug/L			06/15/15 09:37	1
Bromoform	ND		1.0		ug/L			06/15/15 09:37	1
Bromomethane	ND		1.0		ug/L			06/15/15 09:37	1
2-Butanone (MEK)	ND		50		ug/L			06/15/15 09:37	1
n-Butylbenzene	ND		1.0		ug/L			06/15/15 09:37	1
sec-Butylbenzene	ND		1.0		ug/L			06/15/15 09:37	1
tert-Butylbenzene	ND		1.0		ug/L			06/15/15 09:37	1
Carbon disulfide	ND		5.0		ug/L			06/15/15 09:37	1
Carbon tetrachloride	ND		0.50		ug/L			06/15/15 09:37	1
Chlorobenzene	ND		0.50		ug/L			06/15/15 09:37	1
Chloroethane	ND		1.0		ug/L			06/15/15 09:37	1
Chloroform	ND		1.0		ug/L			06/15/15 09:37	1
Chloromethane	ND		1.0		ug/L			06/15/15 09:37	1
2-Chlorotoluene	ND		0.50		ug/L			06/15/15 09:37	1
4-Chlorotoluene	ND		0.50		ug/L			06/15/15 09:37	1
Chlorodibromomethane	ND		0.50		ug/L			06/15/15 09:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/15/15 09:37	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/15/15 09:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/15/15 09:37	1
1,3-Dichloropropane	ND		1.0		ug/L			06/15/15 09:37	1
1,1-Dichloropropene	ND		0.50		ug/L			06/15/15 09:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/15/15 09:37	1
Ethylene Dibromide	ND		0.50		ug/L			06/15/15 09:37	1
Dibromomethane	ND		0.50		ug/L			06/15/15 09:37	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/15/15 09:37	1
1,1-Dichloroethane	ND		0.50		ug/L			06/15/15 09:37	1
1,2-Dichloroethane	ND		0.50		ug/L			06/15/15 09:37	1
1,1-Dichloroethene	ND		0.50		ug/L			06/15/15 09:37	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 09:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 09:37	1
1,2-Dichloropropane	ND		0.50		ug/L			06/15/15 09:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 09:37	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 09:37	1
Ethylbenzene	ND		0.50		ug/L			06/15/15 09:37	1
Hexachlorobutadiene	ND		1.0		ug/L			06/15/15 09:37	1
2-Hexanone	ND		50		ug/L			06/15/15 09:37	1
Isopropylbenzene	ND		0.50		ug/L			06/15/15 09:37	1
4-Isopropyltoluene	ND		1.0		ug/L			06/15/15 09:37	1
Methylene Chloride	ND		5.0		ug/L			06/15/15 09:37	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/15/15 09:37	1
Naphthalene	ND		1.0		ug/L			06/15/15 09:37	1
N-Propylbenzene	ND		1.0		ug/L			06/15/15 09:37	1
Styrene	ND		0.50		ug/L			06/15/15 09:37	1

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

Lab Sample ID: MB 720-183592/5
Matrix: Water
Analysis Batch: 183592

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			06/15/15 09:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/15/15 09:37	1
Tetrachloroethene	ND		0.50		ug/L			06/15/15 09:37	1
Toluene	ND		0.50		ug/L			06/15/15 09:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/15/15 09:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/15/15 09:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/15/15 09:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/15/15 09:37	1
Trichloroethene	ND		0.50		ug/L			06/15/15 09:37	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/15 09:37	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/15/15 09:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/15/15 09:37	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/15/15 09:37	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/15/15 09:37	1
Vinyl acetate	ND		10		ug/L			06/15/15 09:37	1
Vinyl chloride	ND		0.50		ug/L			06/15/15 09:37	1
Xylenes, Total	ND		1.0		ug/L			06/15/15 09:37	1
2,2-Dichloropropane	ND		0.50		ug/L			06/15/15 09:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/15/15 09:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*06/15/15 09:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 130*		*06/15/15 09:37*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*06/15/15 09:37*	*1*

Lab Sample ID: LCS 720-183592/6
Matrix: Water
Analysis Batch: 183592

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	21.4		ug/L		86	62 - 130
Acetone	125	113		ug/L		91	26 - 180
Benzene	25.0	24.6		ug/L		99	79 - 130
Dichlorobromomethane	25.0	22.0		ug/L		88	70 - 130
Bromobenzene	25.0	24.7		ug/L		99	70 - 130
Chlorobromomethane	25.0	23.2		ug/L		93	70 - 130
Bromoform	25.0	23.0		ug/L		92	68 - 136
Bromomethane	25.0	25.9		ug/L		104	43 - 151
2-Butanone (MEK)	125	122		ug/L		97	54 - 130
n-Butylbenzene	25.0	26.9		ug/L		108	70 - 142
sec-Butylbenzene	25.0	26.1		ug/L		104	70 - 134
tert-Butylbenzene	25.0	25.2		ug/L		101	70 - 135
Carbon disulfide	25.0	23.3		ug/L		93	58 - 130
Carbon tetrachloride	25.0	22.6		ug/L		90	70 - 146
Chlorobenzene	25.0	24.8		ug/L		99	70 - 130
Chloroethane	25.0	25.4		ug/L		101	62 - 138
Chloroform	25.0	22.7		ug/L		91	70 - 130

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

Lab Sample ID: LCS 720-183592/6
Matrix: Water
Analysis Batch: 183592

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	24.0		ug/L		96	52 - 175
2-Chlorotoluene	25.0	25.4		ug/L		102	70 - 130
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130
Chlorodibromomethane	25.0	22.4		ug/L		90	70 - 145
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	22.9		ug/L		92	70 - 130
1,1-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.5		ug/L		90	70 - 136
Ethylene Dibromide	25.0	22.9		ug/L		92	70 - 130
Dibromomethane	25.0	23.2		ug/L		93	70 - 130
Dichlorodifluoromethane	25.0	22.8		ug/L		91	34 - 132
1,1-Dichloroethane	25.0	23.1		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	20.1		ug/L		81	61 - 132
1,1-Dichloroethene	25.0	21.2		ug/L		85	64 - 128
cis-1,2-Dichloroethene	25.0	22.9		ug/L		91	70 - 130
trans-1,2-Dichloroethene	25.0	23.3		ug/L		93	68 - 130
1,2-Dichloropropane	25.0	23.6		ug/L		95	70 - 130
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130
trans-1,3-Dichloropropene	25.0	25.4		ug/L		101	70 - 140
Ethylbenzene	25.0	25.4		ug/L		102	80 - 120
Hexachlorobutadiene	25.0	23.9		ug/L		96	70 - 130
2-Hexanone	125	106		ug/L		85	60 - 164
Isopropylbenzene	25.0	25.1		ug/L		100	70 - 130
4-Isopropyltoluene	25.0	25.5		ug/L		102	70 - 130
Methylene Chloride	25.0	22.4		ug/L		90	70 - 147
4-Methyl-2-pentanone (MIBK)	125	105		ug/L		84	58 - 130
Naphthalene	25.0	22.3		ug/L		89	70 - 130
N-Propylbenzene	25.0	26.7		ug/L		107	70 - 130
Styrene	25.0	23.8		ug/L		95	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.7		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130
Tetrachloroethene	25.0	24.8		ug/L		99	70 - 130
Toluene	25.0	25.8		ug/L		103	78 - 120
1,2,3-Trichlorobenzene	25.0	22.9		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,1,1-Trichloroethane	25.0	22.3		ug/L		89	70 - 130
1,1,2-Trichloroethane	25.0	23.4		ug/L		94	70 - 130
Trichloroethene	25.0	24.5		ug/L		98	70 - 130
Trichlorofluoromethane	25.0	22.7		ug/L		91	66 - 132
1,2,3-Trichloropropane	25.0	23.5		ug/L		94	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.0		ug/L		88	42 - 162
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 132
1,3,5-Trimethylbenzene	25.0	25.5		ug/L		102	70 - 130
Vinyl acetate	25.0	23.6		ug/L		94	43 - 163
Vinyl chloride	25.0	25.1		ug/L		101	54 - 135

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

Lab Sample ID: LCS 720-183592/6
Matrix: Water
Analysis Batch: 183592

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	25.1		ug/L		100	70 - 142
o-Xylene	25.0	24.5		ug/L		98	70 - 130
2,2-Dichloropropane	25.0	25.7		ug/L		103	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*82*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCS 720-183592/8
Matrix: Water
Analysis Batch: 183592

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	488		ug/L		98	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 720-183592/7
Matrix: Water
Analysis Batch: 183592

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	21.2		ug/L		85	62 - 130	1	20
Acetone	125	115		ug/L		92	26 - 180	1	30
Benzene	25.0	24.0		ug/L		96	79 - 130	3	20
Dichlorobromomethane	25.0	21.8		ug/L		87	70 - 130	1	20
Bromobenzene	25.0	23.9		ug/L		96	70 - 130	3	20
Chlorobromomethane	25.0	23.0		ug/L		92	70 - 130	1	20
Bromoform	25.0	23.6		ug/L		94	68 - 136	2	20
Bromomethane	25.0	26.3		ug/L		105	43 - 151	2	20
2-Butanone (MEK)	125	124		ug/L		99	54 - 130	2	20
n-Butylbenzene	25.0	26.5		ug/L		106	70 - 142	1	20
sec-Butylbenzene	25.0	25.6		ug/L		102	70 - 134	2	20
tert-Butylbenzene	25.0	24.4		ug/L		98	70 - 135	3	20
Carbon disulfide	25.0	23.2		ug/L		93	58 - 130	0	20
Carbon tetrachloride	25.0	22.4		ug/L		90	70 - 146	1	20
Chlorobenzene	25.0	24.7		ug/L		99	70 - 130	1	20
Chloroethane	25.0	26.4		ug/L		106	62 - 138	4	20
Chloroform	25.0	22.2		ug/L		89	70 - 130	2	20
Chloromethane	25.0	24.7		ug/L		99	52 - 175	3	20
2-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130	4	20
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130	3	20
Chlorodibromomethane	25.0	22.4		ug/L		90	70 - 145	0	20

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

Lab Sample ID: LCSD 720-183592/7
Matrix: Water
Analysis Batch: 183592

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	24.2		ug/L		97	70 - 130	1	20
1,3-Dichlorobenzene			25.0	24.6		ug/L		98	70 - 130	2	20
1,4-Dichlorobenzene			25.0	24.5		ug/L		98	70 - 130	0	20
1,3-Dichloropropane			25.0	23.1		ug/L		92	70 - 130	1	20
1,1-Dichloropropene			25.0	25.2		ug/L		101	70 - 130	3	20
1,2-Dibromo-3-Chloropropane			25.0	23.5		ug/L		94	70 - 136	4	20
Ethylene Dibromide			25.0	23.0		ug/L		92	70 - 130	0	20
Dibromomethane			25.0	23.3		ug/L		93	70 - 130	1	20
Dichlorodifluoromethane			25.0	23.7		ug/L		95	34 - 132	4	20
1,1-Dichloroethane			25.0	22.7		ug/L		91	70 - 130	2	20
1,2-Dichloroethane			25.0	20.0		ug/L		80	61 - 132	1	20
1,1-Dichloroethene			25.0	21.4		ug/L		86	64 - 128	1	20
cis-1,2-Dichloroethene			25.0	22.4		ug/L		89	70 - 130	2	20
trans-1,2-Dichloroethene			25.0	23.1		ug/L		92	68 - 130	1	20
1,2-Dichloropropane			25.0	23.4		ug/L		93	70 - 130	1	20
cis-1,3-Dichloropropene			25.0	24.3		ug/L		97	70 - 130	1	20
trans-1,3-Dichloropropene			25.0	25.5		ug/L		102	70 - 140	1	20
Ethylbenzene			25.0	25.1		ug/L		100	80 - 120	1	20
Hexachlorobutadiene			25.0	24.1		ug/L		96	70 - 130	1	20
2-Hexanone			125	109		ug/L		87	60 - 164	3	20
Isopropylbenzene			25.0	25.0		ug/L		100	70 - 130	0	20
4-Isopropyltoluene			25.0	25.0		ug/L		100	70 - 130	2	20
Methylene Chloride			25.0	22.9		ug/L		92	70 - 147	2	20
4-Methyl-2-pentanone (MIBK)			125	108		ug/L		86	58 - 130	3	20
Naphthalene			25.0	23.2		ug/L		93	70 - 130	4	20
N-Propylbenzene			25.0	25.6		ug/L		103	70 - 130	4	20
Styrene			25.0	23.9		ug/L		95	70 - 130	0	20
1,1,1,2-Tetrachloroethane			25.0	23.6		ug/L		94	70 - 130	1	20
1,1,2,2-Tetrachloroethane			25.0	24.9		ug/L		100	70 - 130	0	20
Tetrachloroethene			25.0	24.2		ug/L		97	70 - 130	2	20
Toluene			25.0	25.2		ug/L		101	78 - 120	2	20
1,2,3-Trichlorobenzene			25.0	23.4		ug/L		93	70 - 130	2	20
1,2,4-Trichlorobenzene			25.0	24.4		ug/L		98	70 - 130	1	20
1,1,1-Trichloroethane			25.0	21.9		ug/L		88	70 - 130	2	20
1,1,2-Trichloroethane			25.0	23.2		ug/L		93	70 - 130	1	20
Trichloroethene			25.0	23.9		ug/L		96	70 - 130	2	20
Trichlorofluoromethane			25.0	23.1		ug/L		92	66 - 132	2	20
1,2,3-Trichloropropane			25.0	23.5		ug/L		94	70 - 130	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	22.1		ug/L		88	42 - 162	0	20
1,2,4-Trimethylbenzene			25.0	24.5		ug/L		98	70 - 132	2	20
1,3,5-Trimethylbenzene			25.0	24.6		ug/L		98	70 - 130	4	20
Vinyl acetate			25.0	23.7		ug/L		95	43 - 163	1	20
Vinyl chloride			25.0	25.7		ug/L		103	54 - 135	2	20
m-Xylene & p-Xylene			25.0	24.8		ug/L		99	70 - 142	1	20
o-Xylene			25.0	24.5		ug/L		98	70 - 130	0	20
2,2-Dichloropropane			25.0	26.1		ug/L		104	70 - 140	2	20

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

Lab Sample ID: LCSD 720-183592/7
Matrix: Water
Analysis Batch: 183592

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)	82		72 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 720-183592/9
Matrix: Water
Analysis Batch: 183592

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	492		ug/L		98	62 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	85		72 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: 720-65417-7 MS
Matrix: Water
Analysis Batch: 183592

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
Methyl tert-butyl ether	ND		25.0	22.8		ug/L		91	60 - 138
Acetone	ND		125	87.7		ug/L		70	60 - 140
Benzene	ND		25.0	25.2		ug/L		101	60 - 140
Dichlorobromomethane	ND		25.0	23.4		ug/L		93	60 - 140
Bromobenzene	ND		25.0	25.2		ug/L		101	60 - 140
Chlorobromomethane	ND		25.0	24.5		ug/L		98	60 - 140
Bromoform	ND		25.0	24.9		ug/L		100	56 - 140
Bromomethane	ND		25.0	24.8		ug/L		99	23 - 140
2-Butanone (MEK)	ND		125	105		ug/L		84	60 - 140
n-Butylbenzene	ND		25.0	26.9		ug/L		108	60 - 140
sec-Butylbenzene	ND		25.0	25.3		ug/L		101	60 - 140
tert-Butylbenzene	ND		25.0	24.4		ug/L		98	60 - 140
Carbon disulfide	ND		25.0	24.6		ug/L		99	38 - 140
Carbon tetrachloride	ND		25.0	22.4		ug/L		90	60 - 140
Chlorobenzene	ND		25.0	25.6		ug/L		102	60 - 140
Chloroethane	ND		25.0	24.6		ug/L		98	51 - 140
Chloroform	ND		25.0	23.3		ug/L		93	60 - 140
Chloromethane	ND		25.0	22.7		ug/L		91	52 - 140
2-Chlorotoluene	ND		25.0	25.0		ug/L		100	60 - 140
4-Chlorotoluene	ND		25.0	25.2		ug/L		101	60 - 140
Chlorodibromomethane	ND		25.0	24.5		ug/L		98	60 - 140
1,2-Dichlorobenzene	ND		25.0	26.1		ug/L		104	60 - 140
1,3-Dichlorobenzene	ND		25.0	26.1		ug/L		104	60 - 140
1,4-Dichlorobenzene	ND		25.0	25.9		ug/L		104	60 - 140
1,3-Dichloropropane	ND		25.0	24.6		ug/L		99	60 - 140
1,1-Dichloropropene	ND		25.0	25.5		ug/L		102	60 - 140

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

Lab Sample ID: 720-65417-7 MS
Matrix: Water
Analysis Batch: 183592

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		25.0	22.3		ug/L		89	60 - 140
Ethylene Dibromide	ND		25.0	24.2		ug/L		97	60 - 140
Dibromomethane	ND		25.0	24.1		ug/L		97	60 - 140
Dichlorodifluoromethane	ND		25.0	21.6		ug/L		86	38 - 140
1,1-Dichloroethane	ND		25.0	23.9		ug/L		95	60 - 140
1,2-Dichloroethane	ND		25.0	21.1		ug/L		85	60 - 140
1,1-Dichloroethene	ND		25.0	21.6		ug/L		86	60 - 140
cis-1,2-Dichloroethene	ND		25.0	23.5		ug/L		94	60 - 140
trans-1,2-Dichloroethene	ND		25.0	23.7		ug/L		95	60 - 140
1,2-Dichloropropane	ND		25.0	24.6		ug/L		99	60 - 140
cis-1,3-Dichloropropene	ND		25.0	26.0		ug/L		104	60 - 140
trans-1,3-Dichloropropene	ND		25.0	27.1		ug/L		108	60 - 140
Ethylbenzene	ND		25.0	25.3		ug/L		101	60 - 140
Hexachlorobutadiene	ND		25.0	25.0		ug/L		100	60 - 140
2-Hexanone	ND		125	94.5		ug/L		76	60 - 140
Isopropylbenzene	ND		25.0	25.2		ug/L		101	60 - 140
4-Isopropyltoluene	ND		25.0	25.3		ug/L		101	60 - 140
Methylene Chloride	ND		25.0	23.9		ug/L		96	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	96.9		ug/L		78	58 - 130
Naphthalene	ND		25.0	23.8		ug/L		94	56 - 140
N-Propylbenzene	ND		25.0	25.3		ug/L		101	60 - 140
Styrene	ND		25.0	25.2		ug/L		101	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	24.9		ug/L		100	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	25.1		ug/L		100	60 - 140
Tetrachloroethene	ND		25.0	24.6		ug/L		98	60 - 140
Toluene	ND		25.0	25.7		ug/L		103	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	25.0		ug/L		99	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	26.3		ug/L		105	60 - 140
1,1,1-Trichloroethane	ND		25.0	22.2		ug/L		89	60 - 140
1,1,2-Trichloroethane	ND		25.0	25.2		ug/L		101	60 - 140
Trichloroethene	ND		25.0	24.5		ug/L		98	60 - 140
Trichlorofluoromethane	ND		25.0	21.6		ug/L		86	60 - 140
1,2,3-Trichloropropane	ND		25.0	23.1		ug/L		92	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.2		ug/L		89	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	25.2		ug/L		101	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	25.0		ug/L		100	60 - 140
Vinyl acetate	ND		25.0	22.2		ug/L		89	40 - 140
Vinyl chloride	ND		25.0	23.9		ug/L		96	58 - 140
m-Xylene & p-Xylene	ND		25.0	25.1		ug/L		100	60 - 140
o-Xylene	ND		25.0	25.1		ug/L		100	60 - 140
2,2-Dichloropropane	ND		25.0	26.2		ug/L		105	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*85*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

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

Lab Sample ID: 720-65417-7 MSD
Matrix: Water
Analysis Batch: 183592

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
Methyl tert-butyl ether	ND		25.0	23.5		ug/L		94	60 - 138	3	20
Acetone	ND		125	97.2		ug/L		78	60 - 140	10	20
Benzene	ND		25.0	25.2		ug/L		101	60 - 140	0	20
Dichlorobromomethane	ND		25.0	23.6		ug/L		94	60 - 140	1	20
Bromobenzene	ND		25.0	25.3		ug/L		101	60 - 140	0	20
Chlorobromomethane	ND		25.0	25.0		ug/L		100	60 - 140	2	20
Bromoform	ND		25.0	24.6		ug/L		99	56 - 140	1	20
Bromomethane	ND		25.0	25.4		ug/L		102	23 - 140	2	20
2-Butanone (MEK)	ND		125	116		ug/L		93	60 - 140	10	20
n-Butylbenzene	ND		25.0	26.4		ug/L		106	60 - 140	2	20
sec-Butylbenzene	ND		25.0	25.4		ug/L		102	60 - 140	0	20
tert-Butylbenzene	ND		25.0	24.5		ug/L		98	60 - 140	0	20
Carbon disulfide	ND		25.0	24.2		ug/L		97	38 - 140	2	20
Carbon tetrachloride	ND		25.0	22.3		ug/L		89	60 - 140	1	20
Chlorobenzene	ND		25.0	25.1		ug/L		101	60 - 140	2	20
Chloroethane	ND		25.0	25.0		ug/L		100	51 - 140	2	20
Chloroform	ND		25.0	23.5		ug/L		94	60 - 140	1	20
Chloromethane	ND		25.0	23.0		ug/L		92	52 - 140	1	20
2-Chlorotoluene	ND		25.0	24.9		ug/L		100	60 - 140	0	20
4-Chlorotoluene	ND		25.0	25.0		ug/L		100	60 - 140	1	20
Chlorodibromomethane	ND		25.0	24.3		ug/L		97	60 - 140	1	20
1,2-Dichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140	1	20
1,3-Dichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140	1	20
1,4-Dichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140	0	20
1,3-Dichloropropane	ND		25.0	25.0		ug/L		100	60 - 140	1	20
1,1-Dichloropropene	ND		25.0	25.5		ug/L		102	60 - 140	0	20
1,2-Dibromo-3-Chloropropane	ND		25.0	23.9		ug/L		96	60 - 140	7	20
Ethylene Dibromide	ND		25.0	24.7		ug/L		99	60 - 140	2	20
Dibromomethane	ND		25.0	25.0		ug/L		100	60 - 140	3	20
Dichlorodifluoromethane	ND		25.0	21.8		ug/L		87	38 - 140	1	20
1,1-Dichloroethane	ND		25.0	23.9		ug/L		96	60 - 140	0	20
1,2-Dichloroethane	ND		25.0	21.6		ug/L		86	60 - 140	2	20
1,1-Dichloroethene	ND		25.0	21.5		ug/L		86	60 - 140	0	20
cis-1,2-Dichloroethene	ND		25.0	23.8		ug/L		95	60 - 140	1	20
trans-1,2-Dichloroethene	ND		25.0	24.1		ug/L		96	60 - 140	2	20
1,2-Dichloropropane	ND		25.0	25.1		ug/L		100	60 - 140	2	20
cis-1,3-Dichloropropene	ND		25.0	26.5		ug/L		106	60 - 140	2	20
trans-1,3-Dichloropropene	ND		25.0	27.5		ug/L		110	60 - 140	2	20
Ethylbenzene	ND		25.0	25.0		ug/L		100	60 - 140	1	20
Hexachlorobutadiene	ND		25.0	24.3		ug/L		97	60 - 140	3	20
2-Hexanone	ND		125	105		ug/L		84	60 - 140	10	20
Isopropylbenzene	ND		25.0	24.8		ug/L		99	60 - 140	1	20
4-Isopropyltoluene	ND		25.0	25.1		ug/L		101	60 - 140	1	20
Methylene Chloride	ND		25.0	23.8		ug/L		95	40 - 140	0	20
4-Methyl-2-pentanone (MIBK)	ND		125	105		ug/L		84	58 - 130	8	20
Naphthalene	ND		25.0	24.4		ug/L		97	56 - 140	3	20
N-Propylbenzene	ND		25.0	25.5		ug/L		102	60 - 140	1	20
Styrene	ND		25.0	24.5		ug/L		98	60 - 140	3	20

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

Lab Sample ID: 720-65417-7 MSD
Matrix: Water
Analysis Batch: 183592

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	24.6		ug/L		98	60 - 140	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	25.8		ug/L		103	60 - 140	3	20
Tetrachloroethene	ND		25.0	24.5		ug/L		98	60 - 140	0	20
Toluene	ND		25.0	26.0		ug/L		104	60 - 140	1	20
1,2,3-Trichlorobenzene	ND		25.0	25.0		ug/L		99	60 - 140	0	20
1,2,4-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	22.1		ug/L		89	60 - 140	0	20
1,1,2-Trichloroethane	ND		25.0	25.2		ug/L		101	60 - 140	0	20
Trichloroethene	ND		25.0	24.8		ug/L		99	60 - 140	1	20
Trichlorofluoromethane	ND		25.0	21.8		ug/L		87	60 - 140	1	20
1,2,3-Trichloropropane	ND		25.0	24.1		ug/L		96	60 - 140	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	21.8		ug/L		87	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		25.0	25.3		ug/L		101	60 - 140	0	20
1,3,5-Trimethylbenzene	ND		25.0	25.1		ug/L		100	60 - 140	0	20
Vinyl acetate	ND		25.0	23.7		ug/L		95	40 - 140	6	20
Vinyl chloride	ND		25.0	24.1		ug/L		97	58 - 140	1	20
m-Xylene & p-Xylene	ND		25.0	24.7		ug/L		99	60 - 140	1	20
o-Xylene	ND		25.0	24.7		ug/L		99	60 - 140	2	20
2,2-Dichloropropane	ND		25.0	25.8		ug/L		103	60 - 140	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-183453/7
Matrix: Water
Analysis Batch: 183453

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			06/11/15 16:01	1

Lab Sample ID: LCS 720-183453/6
Matrix: Water
Analysis Batch: 183453

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	9.91		mg/L		99	90 - 110		

Lab Sample ID: 720-65417-1 MS
Matrix: Water
Analysis Batch: 183453

Client Sample ID: MW-4R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	32		100	130		mg/L		98	80 - 120		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 720-65417-1 MSD
Matrix: Water
Analysis Batch: 183453

Client Sample ID: MW-4R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	32		100	131		mg/L		99	80 - 120	1	20

Lab Sample ID: MB 720-183454/7
Matrix: Water
Analysis Batch: 183454

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			06/11/15 16:01	1
Nitrate as NO3	ND		1.0		mg/L			06/11/15 16:01	1

Lab Sample ID: LCS 720-183454/6
Matrix: Water
Analysis Batch: 183454

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	9.52		mg/L		95	90 - 110
Nitrate as NO3	10.0	9.66		mg/L		97	90 - 110

Lab Sample ID: 720-65417-1 MS
Matrix: Water
Analysis Batch: 183454

Client Sample ID: MW-4R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	ND		100	97.6		mg/L		92	80 - 120
Nitrate as NO3	64		100	164		mg/L		99	80 - 120

Lab Sample ID: 720-65417-1 MSD
Matrix: Water
Analysis Batch: 183454

Client Sample ID: MW-4R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as NO2	ND		100	99.2		mg/L		93	80 - 120	2	20
Nitrate as NO3	64		100	165		mg/L		101	80 - 120	1	20

Lab Sample ID: MB 720-183510/4
Matrix: Water
Analysis Batch: 183510

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			06/12/15 09:31	1

Lab Sample ID: LCS 720-183510/5
Matrix: Water
Analysis Batch: 183510

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	9.88		mg/L		99	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 720-65417-4 MS
Matrix: Water
Analysis Batch: 183510

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		97	80 - 120

Lab Sample ID: 720-65417-4 MSD
Matrix: Water
Analysis Batch: 183510

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	1020		mg/L		97	80 - 120	0	20

Lab Sample ID: MB 720-183511/4
Matrix: Water
Analysis Batch: 183511

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			06/12/15 09:31	1
Nitrate as NO3	ND		1.0		mg/L			06/12/15 09:31	1

Lab Sample ID: LCS 720-183511/5
Matrix: Water
Analysis Batch: 183511

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	9.57		mg/L		96	90 - 110
Nitrate as NO3	10.0	9.57		mg/L		96	90 - 110

Lab Sample ID: 720-65417-4 MS
Matrix: Water
Analysis Batch: 183511

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	961		mg/L		96	80 - 120
Nitrate as NO3	350		1000	1300		mg/L		95	80 - 120

Lab Sample ID: 720-65417-4 MSD
Matrix: Water
Analysis Batch: 183511

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	979		mg/L		98	80 - 120	2	20
Nitrate as NO3	350		1000	1300		mg/L		94	80 - 120	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-183715/1-A
Matrix: Water
Analysis Batch: 183812

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.020		mg/L		06/16/15 14:32	06/17/15 15:49	1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 720-183715/1-A
Matrix: Water
Analysis Batch: 183812

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		1.0		mg/L		06/16/15 14:32	06/17/15 15:49	1

Lab Sample ID: LCS 720-183715/2-A
Matrix: Water
Analysis Batch: 183812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	1.00	1.02		mg/L		102	85 - 115
Potassium	10.0	8.88		mg/L		89	85 - 115

Lab Sample ID: LCSD 720-183715/3-A
Matrix: Water
Analysis Batch: 183812

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183715

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	1.00	1.06		mg/L		106	85 - 115	4	20
Potassium	10.0	9.67		mg/L		97	85 - 115	8	20

Lab Sample ID: 720-65417-1 MS
Matrix: Water
Analysis Batch: 183812

Client Sample ID: MW-4R
Prep Type: Total/NA
Prep Batch: 183715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	1.4		1.00	2.43		mg/L		102	85 - 115
Potassium	ND		10.0	10.2		mg/L		97	85 - 115

Lab Sample ID: 720-65417-1 MSD
Matrix: Water
Analysis Batch: 183812

Client Sample ID: MW-4R
Prep Type: Total/NA
Prep Batch: 183715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	1.4		1.00	2.39		mg/L		98	85 - 115	2	20
Potassium	ND		10.0	10.1		mg/L		96	85 - 115	2	20

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 720-183516/8
Matrix: Water
Analysis Batch: 183516

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			06/12/15 11:00	1

Lab Sample ID: LCS 720-183516/9
Matrix: Water
Analysis Batch: 183516

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	1.00	0.962		mg/L		96	80 - 120

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: 720-65417-7 MS — **Client Sample ID: MW-10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 183516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	0.11	HF	1.00	1.14		mg/L		103	75 - 125

Lab Sample ID: 720-65417-7 MSD — **Client Sample ID: MW-10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 183516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	0.11	HF	1.00	1.14		mg/L		103	75 - 125	0	20

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-292001/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 292030 — **Prep Batch: 292001**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		06/15/15 17:00	06/15/15 19:51	1

Lab Sample ID: LCS 500-292001/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 292030 — **Prep Batch: 292001**

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

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 720-183575/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 183575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	ND		0.020		mg/L			06/12/15 22:37	1

Lab Sample ID: LCS 720-183575/8 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 183575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	0.200	0.206		mg/L		103	90 - 110

Lab Sample ID: 720-65417-1 MS — **Client Sample ID: MW-4R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 183575

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	0.024		0.200	0.203		mg/L		89	75 - 125

Method: SM 4500 P E - Orthophosphate (Continued)

Lab Sample ID: 720-65417-1 MSD
Matrix: Water
Analysis Batch: 183575

Client Sample ID: MW-4R
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	0.024		0.200	0.201		mg/L		88	75 - 125	1	20

GC/MS VOA

Analysis Batch: 183592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-1	MW-4R	Total/NA	Water	8260B/CA_LUFT MS	
720-65417-2	MW-5R	Total/NA	Water	8260B/CA_LUFT MS	
720-65417-3	MW-6R	Total/NA	Water	8260B/CA_LUFT MS	
720-65417-4	MW-7R	Total/NA	Water	8260B/CA_LUFT MS	
720-65417-5	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
720-65417-6	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
720-65417-7	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
720-65417-7 MS	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
720-65417-7 MSD	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-183592/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-183592/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-183592/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-183592/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-183592/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

HPLC/IC

Analysis Batch: 183453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-1	MW-4R	Total/NA	Water	300.0	
720-65417-1 MS	MW-4R	Total/NA	Water	300.0	
720-65417-1 MSD	MW-4R	Total/NA	Water	300.0	
720-65417-2	MW-5R	Total/NA	Water	300.0	
720-65417-3	MW-6R	Total/NA	Water	300.0	
720-65417-4	MW-7R	Total/NA	Water	300.0	
720-65417-5	MW-8	Total/NA	Water	300.0	
720-65417-6	MW-9	Total/NA	Water	300.0	
720-65417-7	MW-10	Total/NA	Water	300.0	
LCS 720-183453/6	Lab Control Sample	Total/NA	Water	300.0	
MB 720-183453/7	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 183454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-1	MW-4R	Total/NA	Water	300.0	
720-65417-1	MW-4R	Total/NA	Water	300.0	
720-65417-1 MS	MW-4R	Total/NA	Water	300.0	
720-65417-1 MSD	MW-4R	Total/NA	Water	300.0	
720-65417-2	MW-5R	Total/NA	Water	300.0	
720-65417-3	MW-6R	Total/NA	Water	300.0	
720-65417-4	MW-7R	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 183454 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-5	MW-8	Total/NA	Water	300.0	
720-65417-6	MW-9	Total/NA	Water	300.0	
720-65417-7	MW-10	Total/NA	Water	300.0	
LCS 720-183454/6	Lab Control Sample	Total/NA	Water	300.0	
MB 720-183454/7	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 183510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-4	MW-7R	Total/NA	Water	300.0	
720-65417-4 MS	MW-7R	Total/NA	Water	300.0	
720-65417-4 MSD	MW-7R	Total/NA	Water	300.0	
LCS 720-183510/5	Lab Control Sample	Total/NA	Water	300.0	
MB 720-183510/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 183511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-3	MW-6R	Total/NA	Water	300.0	
720-65417-4	MW-7R	Total/NA	Water	300.0	
720-65417-4 MS	MW-7R	Total/NA	Water	300.0	
720-65417-4 MSD	MW-7R	Total/NA	Water	300.0	
LCS 720-183511/5	Lab Control Sample	Total/NA	Water	300.0	
MB 720-183511/4	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 183715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-1	MW-4R	Total/NA	Water	200.7	
720-65417-1 MS	MW-4R	Total/NA	Water	200.7	
720-65417-1 MSD	MW-4R	Total/NA	Water	200.7	
720-65417-2	MW-5R	Total/NA	Water	200.7	
720-65417-3	MW-6R	Total/NA	Water	200.7	
720-65417-4	MW-7R	Total/NA	Water	200.7	
720-65417-5	MW-8	Total/NA	Water	200.7	
720-65417-6	MW-9	Total/NA	Water	200.7	
720-65417-7	MW-10	Total/NA	Water	200.7	
LCS 720-183715/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 720-183715/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
MB 720-183715/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 183812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-1	MW-4R	Total/NA	Water	200.7 Rev 4.4	183715
720-65417-1 MS	MW-4R	Total/NA	Water	200.7 Rev 4.4	183715
720-65417-1 MSD	MW-4R	Total/NA	Water	200.7 Rev 4.4	183715
720-65417-2	MW-5R	Total/NA	Water	200.7 Rev 4.4	183715
720-65417-3	MW-6R	Total/NA	Water	200.7 Rev 4.4	183715
720-65417-4	MW-7R	Total/NA	Water	200.7 Rev 4.4	183715
720-65417-5	MW-8	Total/NA	Water	200.7 Rev 4.4	183715
720-65417-6	MW-9	Total/NA	Water	200.7 Rev 4.4	183715

Metals (Continued)

Analysis Batch: 183812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-7	MW-10	Total/NA	Water	200.7 Rev 4.4	183715
LCS 720-183715/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	183715
LCSD 720-183715/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	183715
MB 720-183715/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	183715

General Chemistry

Analysis Batch: 183516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-1	MW-4R	Total/NA	Water	SM 3500 FE D	
720-65417-3	MW-6R	Total/NA	Water	SM 3500 FE D	
720-65417-4	MW-7R	Total/NA	Water	SM 3500 FE D	
720-65417-5	MW-8	Total/NA	Water	SM 3500 FE D	
720-65417-6	MW-9	Total/NA	Water	SM 3500 FE D	
720-65417-7	MW-10	Total/NA	Water	SM 3500 FE D	
720-65417-7 MS	MW-10	Total/NA	Water	SM 3500 FE D	
720-65417-7 MSD	MW-10	Total/NA	Water	SM 3500 FE D	
LCS 720-183516/9	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
MB 720-183516/8	Method Blank	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 183575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-1	MW-4R	Total/NA	Water	SM 4500 P E	
720-65417-1 MS	MW-4R	Total/NA	Water	SM 4500 P E	
720-65417-1 MSD	MW-4R	Total/NA	Water	SM 4500 P E	
720-65417-2	MW-5R	Total/NA	Water	SM 4500 P E	
720-65417-3	MW-6R	Total/NA	Water	SM 4500 P E	
720-65417-4	MW-7R	Total/NA	Water	SM 4500 P E	
720-65417-5	MW-8	Total/NA	Water	SM 4500 P E	
720-65417-6	MW-9	Total/NA	Water	SM 4500 P E	
720-65417-7	MW-10	Total/NA	Water	SM 4500 P E	
LCS 720-183575/8	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 720-183575/7	Method Blank	Total/NA	Water	SM 4500 P E	

Analysis Batch: 183806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-1	MW-4R	Total/NA	Water	SM 3500 FE D	
720-65417-3	MW-6R	Total/NA	Water	SM 3500 FE D	
720-65417-4	MW-7R	Total/NA	Water	SM 3500 FE D	
720-65417-5	MW-8	Total/NA	Water	SM 3500 FE D	
720-65417-6	MW-9	Total/NA	Water	SM 3500 FE D	
720-65417-7	MW-10	Total/NA	Water	SM 3500 FE D	

Prep Batch: 292001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-1	MW-4R	Total/NA	Water	SM 4500 NH3 B	
720-65417-2	MW-5R	Total/NA	Water	SM 4500 NH3 B	
720-65417-3	MW-6R	Total/NA	Water	SM 4500 NH3 B	
720-65417-4	MW-7R	Total/NA	Water	SM 4500 NH3 B	
720-65417-5	MW-8	Total/NA	Water	SM 4500 NH3 B	

General Chemistry (Continued)

Prep Batch: 292001 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-6	MW-9	Total/NA	Water	SM 4500 NH3 B	
720-65417-7	MW-10	Total/NA	Water	SM 4500 NH3 B	
LCS 500-292001/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
MB 500-292001/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 292030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65417-1	MW-4R	Total/NA	Water	SM 4500 NH3 G	292001
720-65417-2	MW-5R	Total/NA	Water	SM 4500 NH3 G	292001
720-65417-3	MW-6R	Total/NA	Water	SM 4500 NH3 G	292001
720-65417-4	MW-7R	Total/NA	Water	SM 4500 NH3 G	292001
720-65417-5	MW-8	Total/NA	Water	SM 4500 NH3 G	292001
720-65417-6	MW-9	Total/NA	Water	SM 4500 NH3 G	292001
720-65417-7	MW-10	Total/NA	Water	SM 4500 NH3 G	292001
LCS 500-292001/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	292001
MB 500-292001/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	292001

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

Client Sample ID: MW-4R
Date Collected: 06/11/15 09:08
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	183592	06/15/15 16:11	ASC	TAL PLS
Total/NA	Analysis	300.0		1	183454	06/11/15 18:42	MJK	TAL PLS
Total/NA	Analysis	300.0		10	183453	06/11/15 18:59	MJK	TAL PLS
Total/NA	Analysis	300.0		10	183454	06/11/15 18:59	MJK	TAL PLS
Total/NA	Prep	200.7			183715	06/16/15 14:32	ECT	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	183812	06/17/15 16:18	SLK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183516	06/12/15 11:00	MJK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183806	06/17/15 16:37	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			292001	06/15/15 17:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	292030	06/15/15 20:42	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	183575	06/12/15 22:37	EYT	TAL PLS

Client Sample ID: MW-5R
Date Collected: 06/11/15 09:51
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-2
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	183592	06/15/15 15:40	ASC	TAL PLS
Total/NA	Analysis	300.0		1	183454	06/11/15 21:03	MJK	TAL PLS
Total/NA	Analysis	300.0		10	183453	06/11/15 21:21	MJK	TAL PLS
Total/NA	Prep	200.7			183715	06/16/15 14:32	ECT	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	183812	06/17/15 16:23	SLK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			292001	06/15/15 17:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	292030	06/15/15 20:45	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	183575	06/12/15 22:37	EYT	TAL PLS

Client Sample ID: MW-6R
Date Collected: 06/11/15 11:00
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-3
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	183592	06/15/15 15:10	ASC	TAL PLS
Total/NA	Analysis	300.0		1	183454	06/11/15 21:38	MJK	TAL PLS
Total/NA	Analysis	300.0		10	183453	06/11/15 21:55	MJK	TAL PLS
Total/NA	Analysis	300.0		100	183511	06/12/15 10:28	MJK	TAL PLS
Total/NA	Prep	200.7			183715	06/16/15 14:32	ECT	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	183812	06/17/15 16:28	SLK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183516	06/12/15 11:00	MJK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183806	06/17/15 16:37	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			292001	06/15/15 17:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	292030	06/15/15 20:48	HMW	TAL CHI

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

Client Sample ID: MW-6R
Date Collected: 06/11/15 11:00
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 P E		10	183575	06/12/15 22:37	EYT	TAL PLS

Client Sample ID: MW-7R
Date Collected: 06/11/15 13:46
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-4
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	183592	06/15/15 14:40	ASC	TAL PLS
Total/NA	Analysis	300.0		1	183454	06/11/15 22:46	MJK	TAL PLS
Total/NA	Analysis	300.0		10	183453	06/11/15 23:03	MJK	TAL PLS
Total/NA	Analysis	300.0		100	183510	06/12/15 10:45	MJK	TAL PLS
Total/NA	Analysis	300.0		100	183511	06/12/15 10:45	MJK	TAL PLS
Total/NA	Prep	200.7			183715	06/16/15 14:32	ECT	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	183812	06/17/15 16:33	SLK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		5	183516	06/12/15 11:30	MJK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183806	06/17/15 16:37	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			292001	06/15/15 17:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	292030	06/15/15 20:51	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	183575	06/12/15 22:37	EYT	TAL PLS

Client Sample ID: MW-8
Date Collected: 06/11/15 14:25
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-5
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	183592	06/15/15 14:09	ASC	TAL PLS
Total/NA	Analysis	300.0		1	183453	06/11/15 23:20	MJK	TAL PLS
Total/NA	Analysis	300.0		1	183454	06/11/15 23:20	MJK	TAL PLS
Total/NA	Prep	200.7			183715	06/16/15 14:32	ECT	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	183812	06/17/15 16:49	SLK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		10	183516	06/12/15 11:30	MJK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183806	06/17/15 16:37	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			292001	06/15/15 17:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	292030	06/15/15 20:59	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	183575	06/12/15 22:37	EYT	TAL PLS

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

Client Sample ID: MW-9

Date Collected: 06/11/15 15:05
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-6

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	183592	06/15/15 13:39	ASC	TAL PLS
Total/NA	Analysis	300.0		1	183454	06/11/15 23:54	MJK	TAL PLS
Total/NA	Analysis	300.0		10	183453	06/12/15 00:11	MJK	TAL PLS
Total/NA	Prep	200.7			183715	06/16/15 14:32	ECT	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	183812	06/17/15 16:54	SLK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183516	06/12/15 11:00	MJK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183806	06/17/15 16:37	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			292001	06/15/15 17:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	292030	06/15/15 21:02	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	183575	06/12/15 22:37	EYT	TAL PLS

Client Sample ID: MW-10

Date Collected: 06/11/15 11:20
Date Received: 06/11/15 17:17

Lab Sample ID: 720-65417-7

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	183592	06/15/15 13:09	ASC	TAL PLS
Total/NA	Analysis	300.0		1	183453	06/12/15 00:29	MJK	TAL PLS
Total/NA	Analysis	300.0		1	183454	06/12/15 00:29	MJK	TAL PLS
Total/NA	Prep	200.7			183715	06/16/15 14:32	ECT	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	183812	06/17/15 16:59	SLK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183516	06/12/15 11:00	MJK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183806	06/17/15 16:37	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			292001	06/15/15 17:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	292030	06/15/15 21:05	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	183575	06/12/15 22:37	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: 720-65417-1

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	01-31-16

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	06-30-15 *
Kentucky (UST)	State Program	4	66	04-30-16
Kentucky (WW)	State Program	4	KY90023	12-31-15
Massachusetts	State Program	1	M-IL035	06-30-15 *
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	12-31-15
North Dakota	State Program	8	R-194	04-30-16
Oklahoma	State Program	6	8908	08-31-15
South Carolina	State Program	4	77001	04-30-15 *
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-15
Wyoming	State Program	8	8TMS-Q	05-31-15 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65417-1

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 FE D	Iron, Ferrous and Ferric	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: 720-65417-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-65417-1	MW-4R	Water	06/11/15 09:08	06/11/15 17:17
720-65417-2	MW-5R	Water	06/11/15 09:51	06/11/15 17:17
720-65417-3	MW-6R	Water	06/11/15 11:00	06/11/15 17:17
720-65417-4	MW-7R	Water	06/11/15 13:46	06/11/15 17:17
720-65417-5	MW-8	Water	06/11/15 14:25	06/11/15 17:17
720-65417-6	MW-9	Water	06/11/15 15:05	06/11/15 17:17
720-65417-7	MW-10	Water	06/11/15 11:20	06/11/15 17:17

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720-65417

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

Reference #: 116759

Date_____ Page_____of_____

6/18/2015

Report To

Attn: Peter Sims
Company: Ninyo and Moore
Address: 1945 Webster st, ste. 400
Email: psims@ninyoandmoore.com
Bill To: Joune
Sampled By: Emily K Dirksen
Attn: Peter Sims
Phone: 510-343-3000

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B TPH-g 8015 M	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 PCBs ☐ EPA 8081 ☐ 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 Ammonia as NH3	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Iron II SM 3500 Fe	Iron III by calculation	Number of Containers
MW-4R	6/11	0908	GW		X										X				X			X	X	8
MW-5R		0951			X										X				X			X	X	
MW-6R		1100			X										X				X			X	X	
MW-7R		1348			X										X				X			X	X	
MW-8		1425			X										X				X			X	X	
MW-9		1505			X										X				X			X	X	
MW-10		1120			X										X				X			X	X	

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Project Info.

Project Name/ #: Chevron 401896004
PO#:

Sample Receipt

of Containers:
Head Space:
Temp: 4.9 °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 _____

See Terms and Conditions on reverse

1) Relinquished by: 1550
Signature Time
Emily Dirksen 6/11/15
Printed Name Date
Ninyo & Moore
Company

2) Relinquished by: 1717
Signature Time
Gary Evans 6-11-15
Printed Name Date
TA
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by: 15:50
Signature Time
Gary Evans GE
Printed Name Date
TA
Company

2) Received by: 1717
Signature Time
6/11/15
Printed Name Date
TA
Company

720-65417 Chain of Custody
Signature Time
Printed Name Date
Company

Rev.10/2012

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-65417-1

Login Number: 65417
List Number: 1
Creator: Gonzales, Justinn

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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	
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: 720-65417-1

Login Number: 65417
List Number: 2
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago
List Creation: 06/13/15 10:07 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	-0.2
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.	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

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ANALYTICAL REPORT

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

TestAmerica Job ID: 720-65451-1
Client Project/Site: Chun

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

Attn: Mr. Peter D. Sims

Authorized for release by:
6/18/2015 4:01:28 PM

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Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

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: 720-65451-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-65451-1

Comments
No additional comments.

Receipt
The samples were received on 6/12/2015 4:38 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed.

Ammonia analysis written on the COC, but is not marked. Received bottles for ammonia, logged per client history.

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

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

General Chemistry
Method SM 3500 FE D: Ferric iron is obtained by subtracting the ferrous result from the total iron result. The ferrous iron results obtained for the following sample was higher than the total iron results: MW-12 (720-65451-1).

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

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

Client Sample ID: MW-12 — Lab Sample ID: 720-65451-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.5		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	17		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	2.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	19		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	1.5		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	5.2		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	2.0		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	54		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	5.5		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	1.8		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	68		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	470		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Sulfate	9.3		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	2.2		1.0		mg/L	1		300.0	Total/NA
Chloride	13		1.0		mg/L	1		300.0	Total/NA
Manganese	1.3		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Ferrous Iron	1.1	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA
Orthophosphate as P	0.035		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-11R — Lab Sample ID: 720-65451-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	180		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1600		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	120		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Naphthalene	470		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	330		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Toluene	1400		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	2900		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	770		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	9900		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	29000		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA
Sulfate	1.2		1.0		mg/L	1		300.0	Total/NA
Chloride	8.6		1.0		mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

Client Sample ID: MW-11R (Continued) — Lab Sample ID: 720-65451-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.81		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Ferrous Iron	1.4	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA
Orthophosphate as P	0.15		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-14 — Lab Sample ID: 720-65451-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1500		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	140		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	55		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Naphthalene	160		50		ug/L	50		8260B/CA_LUFT MS	Total/NA
Toluene	31		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	68		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	38		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	140		50		ug/L	50		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	3800		2500		ug/L	50		8260B/CA_LUFT MS	Total/NA
Sulfate	11		1.0		mg/L	1		300.0	Total/NA
Chloride	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	28	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA
Ferrous Iron	6.1	HF	0.50		mg/L	5		SM 3500 FE D	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 720-65451-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	5.5		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	2.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Sulfate	12		1.0		mg/L	1		300.0	Total/NA
Nitrate as NO3	5.6		1.0		mg/L	1		300.0	Total/NA
Chloride	16		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	7.4		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	53	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA
Ferrous Iron	0.14	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 720-65451-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.7		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	0.97		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

Client Sample ID: MW-15 (Continued) — Lab Sample ID: 720-65451-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	42		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	4.3		1.0		mg/L	1		300.0	Total/NA
Chloride	47		10		mg/L	10		300.0	Total/NA
Manganese	0.80		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	5.0		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	54	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA
Ferrous Iron	1.4	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-16 — Lab Sample ID: 720-65451-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	10		1.0		mg/L	1		300.0	Total/NA
Chloride	26		10		mg/L	10		300.0	Total/NA
Manganese	0.29		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	3.3	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA
Ferrous Iron	0.14	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA
Orthophosphate as P	0.040		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-5R — Lab Sample ID: 720-65451-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ferric Iron	2.8	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA
Ferrous Iron	0.99	HF	0.10		mg/L	1		SM 3500 FE D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

Client Sample ID: MW-12
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-1
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	**4.5**		0.50		ug/L			06/15/15 17:43	1
Acetone	ND		50		ug/L			06/15/15 17:43	1
Benzene	**17**		0.50		ug/L			06/15/15 17:43	1
Dichlorobromomethane	ND		0.50		ug/L			06/15/15 17:43	1
Bromobenzene	ND		1.0		ug/L			06/15/15 17:43	1
Chlorobromomethane	ND		1.0		ug/L			06/15/15 17:43	1
Bromoform	ND		1.0		ug/L			06/15/15 17:43	1
Bromomethane	ND		1.0		ug/L			06/15/15 17:43	1
2-Butanone (MEK)	ND		50		ug/L			06/15/15 17:43	1
n-Butylbenzene	ND		1.0		ug/L			06/15/15 17:43	1
sec-Butylbenzene	ND		1.0		ug/L			06/15/15 17:43	1
tert-Butylbenzene	ND		1.0		ug/L			06/15/15 17:43	1
Carbon disulfide	ND		5.0		ug/L			06/15/15 17:43	1
Carbon tetrachloride	ND		0.50		ug/L			06/15/15 17:43	1
Chlorobenzene	ND		0.50		ug/L			06/15/15 17:43	1
Chloroethane	ND		1.0		ug/L			06/15/15 17:43	1
Chloroform	ND		1.0		ug/L			06/15/15 17:43	1
Chloromethane	ND		1.0		ug/L			06/15/15 17:43	1
2-Chlorotoluene	ND		0.50		ug/L			06/15/15 17:43	1
4-Chlorotoluene	ND		0.50		ug/L			06/15/15 17:43	1
Chlorodibromomethane	ND		0.50		ug/L			06/15/15 17:43	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/15/15 17:43	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/15/15 17:43	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/15/15 17:43	1
1,3-Dichloropropane	ND		1.0		ug/L			06/15/15 17:43	1
1,1-Dichloropropene	ND		0.50		ug/L			06/15/15 17:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/15/15 17:43	1
Ethylene Dibromide	ND		0.50		ug/L			06/15/15 17:43	1
Dibromomethane	ND		0.50		ug/L			06/15/15 17:43	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/15/15 17:43	1
1,1-Dichloroethane	ND		0.50		ug/L			06/15/15 17:43	1
1,2-Dichloroethane	**2.0**		0.50		ug/L			06/15/15 17:43	1
1,1-Dichloroethene	ND		0.50		ug/L			06/15/15 17:43	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 17:43	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 17:43	1
1,2-Dichloropropane	ND		0.50		ug/L			06/15/15 17:43	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 17:43	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 17:43	1
Ethylbenzene	**19**		0.50		ug/L			06/15/15 17:43	1
Hexachlorobutadiene	ND		1.0		ug/L			06/15/15 17:43	1
2-Hexanone	ND		50		ug/L			06/15/15 17:43	1
Isopropylbenzene	**1.5**		0.50		ug/L			06/15/15 17:43	1
4-Isopropyltoluene	ND		1.0		ug/L			06/15/15 17:43	1
Methylene Chloride	ND		5.0		ug/L			06/15/15 17:43	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/15/15 17:43	1
Naphthalene	**5.2**		1.0		ug/L			06/15/15 17:43	1
N-Propylbenzene	**2.0**		1.0		ug/L			06/15/15 17:43	1
Styrene	ND		0.50		ug/L			06/15/15 17:43	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/15/15 17:43	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

Client Sample ID: MW-12
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-1
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			06/15/15 17:43	1
Tetrachloroethene	ND		0.50		ug/L			06/15/15 17:43	1
Toluene	**54**		0.50		ug/L			06/15/15 17:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/15/15 17:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/15/15 17:43	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/15/15 17:43	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/15/15 17:43	1
Trichloroethene	ND		0.50		ug/L			06/15/15 17:43	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/15 17:43	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/15/15 17:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/15/15 17:43	1
1,2,4-Trimethylbenzene	**5.5**		0.50		ug/L			06/15/15 17:43	1
1,3,5-Trimethylbenzene	**1.8**		0.50		ug/L			06/15/15 17:43	1
Vinyl acetate	ND		10		ug/L			06/15/15 17:43	1
Vinyl chloride	ND		0.50		ug/L			06/15/15 17:43	1
Xylenes, Total	**68**		1.0		ug/L			06/15/15 17:43	1
2,2-Dichloropropane	ND		0.50		ug/L			06/15/15 17:43	1
Gasoline Range Organics (GRO) -C5-C12	**470**		50		ug/L			06/15/15 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*06/15/15 17:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 130*		*06/15/15 17:43*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/15/15 17:43*	*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			06/12/15 17:50	1
Sulfate	**9.3**		1.0		mg/L			06/12/15 17:50	1
Fluoride	ND		1.0		mg/L			06/12/15 17:50	1
Nitrate as NO3	**2.2**		1.0		mg/L			06/12/15 17:50	1
Chloride	**13**		1.0		mg/L			06/12/15 17:50	1
Bromide	ND		1.0		mg/L			06/12/15 17:50	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		06/16/15 14:32	06/17/15 17:04	1
Potassium	ND		1.0		mg/L		06/16/15 14:32	06/17/15 17:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND	HF	0.10		mg/L			06/17/15 16:37	1
Ferrous Iron	**1.1**	**HF**	0.10		mg/L			06/12/15 18:09	1
Ammonia	ND		0.20		mg/L		06/16/15 16:25	06/16/15 19:05	1
Orthophosphate as P	**0.035**		0.020		mg/L			06/12/15 22:37	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

Client Sample ID: MW-11R
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-2
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			06/15/15 18:13	100
Acetone	ND		5000		ug/L			06/15/15 18:13	100
Benzene	**180**		50		ug/L			06/15/15 18:13	100
Dichlorobromomethane	ND		50		ug/L			06/15/15 18:13	100
Bromobenzene	ND		100		ug/L			06/15/15 18:13	100
Chlorobromomethane	ND		100		ug/L			06/15/15 18:13	100
Bromoform	ND		100		ug/L			06/15/15 18:13	100
Bromomethane	ND		100		ug/L			06/15/15 18:13	100
2-Butanone (MEK)	ND		5000		ug/L			06/15/15 18:13	100
n-Butylbenzene	ND		100		ug/L			06/15/15 18:13	100
sec-Butylbenzene	ND		100		ug/L			06/15/15 18:13	100
tert-Butylbenzene	ND		100		ug/L			06/15/15 18:13	100
Carbon disulfide	ND		500		ug/L			06/15/15 18:13	100
Carbon tetrachloride	ND		50		ug/L			06/15/15 18:13	100
Chlorobenzene	ND		50		ug/L			06/15/15 18:13	100
Chloroethane	ND		100		ug/L			06/15/15 18:13	100
Chloroform	ND		100		ug/L			06/15/15 18:13	100
Chloromethane	ND		100		ug/L			06/15/15 18:13	100
2-Chlorotoluene	ND		50		ug/L			06/15/15 18:13	100
4-Chlorotoluene	ND		50		ug/L			06/15/15 18:13	100
Chlorodibromomethane	ND		50		ug/L			06/15/15 18:13	100
1,2-Dichlorobenzene	ND		50		ug/L			06/15/15 18:13	100
1,3-Dichlorobenzene	ND		50		ug/L			06/15/15 18:13	100
1,4-Dichlorobenzene	ND		50		ug/L			06/15/15 18:13	100
1,3-Dichloropropane	ND		100		ug/L			06/15/15 18:13	100
1,1-Dichloropropene	ND		50		ug/L			06/15/15 18:13	100
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			06/15/15 18:13	100
Ethylene Dibromide	ND		50		ug/L			06/15/15 18:13	100
Dibromomethane	ND		50		ug/L			06/15/15 18:13	100
Dichlorodifluoromethane	ND		50		ug/L			06/15/15 18:13	100
1,1-Dichloroethane	ND		50		ug/L			06/15/15 18:13	100
1,2-Dichloroethane	ND		50		ug/L			06/15/15 18:13	100
1,1-Dichloroethene	ND		50		ug/L			06/15/15 18:13	100
cis-1,2-Dichloroethene	ND		50		ug/L			06/15/15 18:13	100
trans-1,2-Dichloroethene	ND		50		ug/L			06/15/15 18:13	100
1,2-Dichloropropane	ND		50		ug/L			06/15/15 18:13	100
cis-1,3-Dichloropropene	ND		50		ug/L			06/15/15 18:13	100
trans-1,3-Dichloropropene	ND		50		ug/L			06/15/15 18:13	100
Ethylbenzene	**1600**		50		ug/L			06/15/15 18:13	100
Hexachlorobutadiene	ND		100		ug/L			06/15/15 18:13	100
2-Hexanone	ND		5000		ug/L			06/15/15 18:13	100
Isopropylbenzene	**120**		50		ug/L			06/15/15 18:13	100
4-Isopropyltoluene	ND		100		ug/L			06/15/15 18:13	100
Methylene Chloride	ND		500		ug/L			06/15/15 18:13	100
4-Methyl-2-pentanone (MIBK)	ND		5000		ug/L			06/15/15 18:13	100
Naphthalene	**470**		100		ug/L			06/15/15 18:13	100
N-Propylbenzene	**330**		100		ug/L			06/15/15 18:13	100
Styrene	ND		50		ug/L			06/15/15 18:13	100
1,1,1,2-Tetrachloroethane	ND		50		ug/L			06/15/15 18:13	100

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

Client Sample ID: MW-11R
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-2
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			06/15/15 18:13	100
Tetrachloroethene	ND		50		ug/L			06/15/15 18:13	100
Toluene	**1400**		50		ug/L			06/15/15 18:13	100
1,2,3-Trichlorobenzene	ND		100		ug/L			06/15/15 18:13	100
1,2,4-Trichlorobenzene	ND		100		ug/L			06/15/15 18:13	100
1,1,1-Trichloroethane	ND		50		ug/L			06/15/15 18:13	100
1,1,2-Trichloroethane	ND		50		ug/L			06/15/15 18:13	100
Trichloroethene	ND		50		ug/L			06/15/15 18:13	100
Trichlorofluoromethane	ND		100		ug/L			06/15/15 18:13	100
1,2,3-Trichloropropane	ND		50		ug/L			06/15/15 18:13	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50		ug/L			06/15/15 18:13	100
1,2,4-Trimethylbenzene	**2900**		50		ug/L			06/15/15 18:13	100
1,3,5-Trimethylbenzene	**770**		50		ug/L			06/15/15 18:13	100
Vinyl acetate	ND		1000		ug/L			06/15/15 18:13	100
Vinyl chloride	ND		50		ug/L			06/15/15 18:13	100
Xylenes, Total	**9900**		100		ug/L			06/15/15 18:13	100
2,2-Dichloropropane	ND		50		ug/L			06/15/15 18:13	100
Gasoline Range Organics (GRO) -C5-C12	**29000**		5000		ug/L			06/15/15 18:13	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*67 - 130*		*06/15/15 18:13*	*100*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 130*		*06/15/15 18:13*	*100*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/15/15 18:13*	*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			06/12/15 18:24	1
Sulfate	**1.2**		1.0		mg/L			06/12/15 18:24	1
Fluoride	ND		1.0		mg/L			06/12/15 18:24	1
Nitrate as NO3	ND		1.0		mg/L			06/12/15 18:24	1
Chloride	**8.6**		1.0		mg/L			06/12/15 18:24	1
Bromide	ND		1.0		mg/L			06/12/15 18:24	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.81**		0.020		mg/L		06/16/15 14:32	06/17/15 17:09	1
Potassium	ND		1.0		mg/L		06/16/15 14:32	06/17/15 17:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND	HF	0.10		mg/L			06/17/15 16:37	1
Ferrous Iron	**1.4**	**HF**	0.10		mg/L			06/12/15 18:09	1
Ammonia	ND		0.20		mg/L		06/16/15 16:25	06/16/15 19:07	1
Orthophosphate as P	**0.15**		0.020		mg/L			06/12/15 22:37	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

Client Sample ID: MW-14
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-3
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		25		ug/L			06/15/15 18:44	50
Acetone	ND		2500		ug/L			06/15/15 18:44	50
Benzene	**1500**		25		ug/L			06/15/15 18:44	50
Dichlorobromomethane	ND		25		ug/L			06/15/15 18:44	50
Bromobenzene	ND		50		ug/L			06/15/15 18:44	50
Chlorobromomethane	ND		50		ug/L			06/15/15 18:44	50
Bromoform	ND		50		ug/L			06/15/15 18:44	50
Bromomethane	ND		50		ug/L			06/15/15 18:44	50
2-Butanone (MEK)	ND		2500		ug/L			06/15/15 18:44	50
n-Butylbenzene	ND		50		ug/L			06/15/15 18:44	50
sec-Butylbenzene	ND		50		ug/L			06/15/15 18:44	50
tert-Butylbenzene	ND		50		ug/L			06/15/15 18:44	50
Carbon disulfide	ND		250		ug/L			06/15/15 18:44	50
Carbon tetrachloride	ND		25		ug/L			06/15/15 18:44	50
Chlorobenzene	ND		25		ug/L			06/15/15 18:44	50
Chloroethane	ND		50		ug/L			06/15/15 18:44	50
Chloroform	ND		50		ug/L			06/15/15 18:44	50
Chloromethane	ND		50		ug/L			06/15/15 18:44	50
2-Chlorotoluene	ND		25		ug/L			06/15/15 18:44	50
4-Chlorotoluene	ND		25		ug/L			06/15/15 18:44	50
Chlorodibromomethane	ND		25		ug/L			06/15/15 18:44	50
1,2-Dichlorobenzene	ND		25		ug/L			06/15/15 18:44	50
1,3-Dichlorobenzene	ND		25		ug/L			06/15/15 18:44	50
1,4-Dichlorobenzene	ND		25		ug/L			06/15/15 18:44	50
1,3-Dichloropropane	ND		50		ug/L			06/15/15 18:44	50
1,1-Dichloropropene	ND		25		ug/L			06/15/15 18:44	50
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			06/15/15 18:44	50
Ethylene Dibromide	ND		25		ug/L			06/15/15 18:44	50
Dibromomethane	ND		25		ug/L			06/15/15 18:44	50
Dichlorodifluoromethane	ND		25		ug/L			06/15/15 18:44	50
1,1-Dichloroethane	ND		25		ug/L			06/15/15 18:44	50
1,2-Dichloroethane	ND		25		ug/L			06/15/15 18:44	50
1,1-Dichloroethene	ND		25		ug/L			06/15/15 18:44	50
cis-1,2-Dichloroethene	ND		25		ug/L			06/15/15 18:44	50
trans-1,2-Dichloroethene	ND		25		ug/L			06/15/15 18:44	50
1,2-Dichloropropane	ND		25		ug/L			06/15/15 18:44	50
cis-1,3-Dichloropropene	ND		25		ug/L			06/15/15 18:44	50
trans-1,3-Dichloropropene	ND		25		ug/L			06/15/15 18:44	50
Ethylbenzene	**140**		25		ug/L			06/15/15 18:44	50
Hexachlorobutadiene	ND		50		ug/L			06/15/15 18:44	50
2-Hexanone	ND		2500		ug/L			06/15/15 18:44	50
Isopropylbenzene	**55**		25		ug/L			06/15/15 18:44	50
4-Isopropyltoluene	ND		50		ug/L			06/15/15 18:44	50
Methylene Chloride	ND		250		ug/L			06/15/15 18:44	50
4-Methyl-2-pentanone (MIBK)	ND		2500		ug/L			06/15/15 18:44	50
Naphthalene	**160**		50		ug/L			06/15/15 18:44	50
N-Propylbenzene	ND		50		ug/L			06/15/15 18:44	50
Styrene	ND		25		ug/L			06/15/15 18:44	50
1,1,1,2-Tetrachloroethane	ND		25		ug/L			06/15/15 18:44	50

Client Sample ID: MW-14
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-3
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		25		ug/L			06/15/15 18:44	50
Tetrachloroethene	ND		25		ug/L			06/15/15 18:44	50
Toluene	**31**		25		ug/L			06/15/15 18:44	50
1,2,3-Trichlorobenzene	ND		50		ug/L			06/15/15 18:44	50
1,2,4-Trichlorobenzene	ND		50		ug/L			06/15/15 18:44	50
1,1,1-Trichloroethane	ND		25		ug/L			06/15/15 18:44	50
1,1,2-Trichloroethane	ND		25		ug/L			06/15/15 18:44	50
Trichloroethene	ND		25		ug/L			06/15/15 18:44	50
Trichlorofluoromethane	ND		50		ug/L			06/15/15 18:44	50
1,2,3-Trichloropropane	ND		25		ug/L			06/15/15 18:44	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25		ug/L			06/15/15 18:44	50
1,2,4-Trimethylbenzene	**68**		25		ug/L			06/15/15 18:44	50
1,3,5-Trimethylbenzene	**38**		25		ug/L			06/15/15 18:44	50
Vinyl acetate	ND		500		ug/L			06/15/15 18:44	50
Vinyl chloride	ND		25		ug/L			06/15/15 18:44	50
Xylenes, Total	**140**		50		ug/L			06/15/15 18:44	50
2,2-Dichloropropane	ND		25		ug/L			06/15/15 18:44	50
Gasoline Range Organics (GRO) -C5-C12	**3800**		2500		ug/L			06/15/15 18:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*06/15/15 18:44*	*50*
1,2-Dichloroethane-d4 (Surr)	*89*		*72 - 130*		*06/15/15 18:44*	*50*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/15/15 18:44*	*50*

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			06/12/15 18:58	1
Sulfate	**11**		1.0		mg/L			06/12/15 18:58	1
Fluoride	ND		1.0		mg/L			06/12/15 18:58	1
Nitrate as NO3	ND		1.0		mg/L			06/12/15 18:58	1
Chloride	**18**		1.0		mg/L			06/12/15 18:58	1
Bromide	ND		1.0		mg/L			06/12/15 18:58	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		06/16/15 14:32	06/17/15 17:14	1
Potassium	**2.7**		1.0		mg/L		06/16/15 14:32	06/17/15 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**28**	**HF**	0.10		mg/L			06/17/15 16:37	1
Ferrous Iron	**6.1**	**HF**	0.50		mg/L			06/12/15 18:09	5
Ammonia	ND		0.20		mg/L		06/16/15 16:25	06/16/15 19:10	1
Orthophosphate as P	ND		0.020		mg/L			06/12/15 22:37	1

Client Sample ID: MW-13
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-4
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	**5.5**		0.50		ug/L			06/15/15 19:15	1
Acetone	ND		50		ug/L			06/15/15 19:15	1
Benzene	ND		0.50		ug/L			06/15/15 19:15	1
Dichlorobromomethane	ND		0.50		ug/L			06/15/15 19:15	1
Bromobenzene	ND		1.0		ug/L			06/15/15 19:15	1
Chlorobromomethane	ND		1.0		ug/L			06/15/15 19:15	1
Bromoform	ND		1.0		ug/L			06/15/15 19:15	1
Bromomethane	ND		1.0		ug/L			06/15/15 19:15	1
2-Butanone (MEK)	ND		50		ug/L			06/15/15 19:15	1
n-Butylbenzene	ND		1.0		ug/L			06/15/15 19:15	1
sec-Butylbenzene	ND		1.0		ug/L			06/15/15 19:15	1
tert-Butylbenzene	ND		1.0		ug/L			06/15/15 19:15	1
Carbon disulfide	ND		5.0		ug/L			06/15/15 19:15	1
Carbon tetrachloride	ND		0.50		ug/L			06/15/15 19:15	1
Chlorobenzene	ND		0.50		ug/L			06/15/15 19:15	1
Chloroethane	ND		1.0		ug/L			06/15/15 19:15	1
Chloroform	ND		1.0		ug/L			06/15/15 19:15	1
Chloromethane	ND		1.0		ug/L			06/15/15 19:15	1
2-Chlorotoluene	ND		0.50		ug/L			06/15/15 19:15	1
4-Chlorotoluene	ND		0.50		ug/L			06/15/15 19:15	1
Chlorodibromomethane	ND		0.50		ug/L			06/15/15 19:15	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/15/15 19:15	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/15/15 19:15	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/15/15 19:15	1
1,3-Dichloropropane	ND		1.0		ug/L			06/15/15 19:15	1
1,1-Dichloropropene	ND		0.50		ug/L			06/15/15 19:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/15/15 19:15	1
Ethylene Dibromide	ND		0.50		ug/L			06/15/15 19:15	1
Dibromomethane	ND		0.50		ug/L			06/15/15 19:15	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/15/15 19:15	1
1,1-Dichloroethane	ND		0.50		ug/L			06/15/15 19:15	1
1,2-Dichloroethane	**2.0**		0.50		ug/L			06/15/15 19:15	1
1,1-Dichloroethene	ND		0.50		ug/L			06/15/15 19:15	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 19:15	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 19:15	1
1,2-Dichloropropane	ND		0.50		ug/L			06/15/15 19:15	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 19:15	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 19:15	1
Ethylbenzene	ND		0.50		ug/L			06/15/15 19:15	1
Hexachlorobutadiene	ND		1.0		ug/L			06/15/15 19:15	1
2-Hexanone	ND		50		ug/L			06/15/15 19:15	1
Isopropylbenzene	ND		0.50		ug/L			06/15/15 19:15	1
4-Isopropyltoluene	ND		1.0		ug/L			06/15/15 19:15	1
Methylene Chloride	ND		5.0		ug/L			06/15/15 19:15	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/15/15 19:15	1
Naphthalene	ND		1.0		ug/L			06/15/15 19:15	1
N-Propylbenzene	ND		1.0		ug/L			06/15/15 19:15	1
Styrene	ND		0.50		ug/L			06/15/15 19:15	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/15/15 19:15	1

Client Sample ID: MW-13
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/15/15 19:15	1
Tetrachloroethene	ND		0.50		ug/L			06/15/15 19:15	1
Toluene	ND		0.50		ug/L			06/15/15 19:15	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/15/15 19:15	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/15/15 19:15	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/15/15 19:15	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/15/15 19:15	1
Trichloroethene	ND		0.50		ug/L			06/15/15 19:15	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/15 19:15	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/15/15 19:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/15/15 19:15	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/15/15 19:15	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/15/15 19:15	1
Vinyl acetate	ND		10		ug/L			06/15/15 19:15	1
Vinyl chloride	ND		0.50		ug/L			06/15/15 19:15	1
Xylenes, Total	ND		1.0		ug/L			06/15/15 19:15	1
2,2-Dichloropropane	ND		0.50		ug/L			06/15/15 19:15	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/15/15 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*06/15/15 19:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 130*		*06/15/15 19:15*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/15/15 19:15*	*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			06/12/15 19:32	1
Sulfate	**12**		1.0		mg/L			06/12/15 19:32	1
Fluoride	ND		1.0		mg/L			06/12/15 19:32	1
Nitrate as NO3	**5.6**		1.0		mg/L			06/12/15 19:32	1
Chloride	**16**		1.0		mg/L			06/12/15 19:32	1
Bromide	ND		1.0		mg/L			06/12/15 19:32	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		06/16/15 14:32	06/17/15 17:29	1
Potassium	**7.4**		1.0		mg/L		06/16/15 14:32	06/17/15 17:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**53**	**HF**	0.10		mg/L			06/17/15 16:37	1
Ferrous Iron	**0.14**	**HF**	0.10		mg/L			06/12/15 18:09	1
Ammonia	ND		0.20		mg/L		06/16/15 16:25	06/16/15 19:13	1
Orthophosphate as P	ND		0.020		mg/L			06/12/15 22:37	1

Client Sample ID: MW-15
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-5
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	**4.7**		0.50		ug/L			06/15/15 19:45	1
Acetone	ND		50		ug/L			06/15/15 19:45	1
Benzene	ND		0.50		ug/L			06/15/15 19:45	1
Dichlorobromomethane	ND		0.50		ug/L			06/15/15 19:45	1
Bromobenzene	ND		1.0		ug/L			06/15/15 19:45	1
Chlorobromomethane	ND		1.0		ug/L			06/15/15 19:45	1
Bromoform	ND		1.0		ug/L			06/15/15 19:45	1
Bromomethane	ND		1.0		ug/L			06/15/15 19:45	1
2-Butanone (MEK)	ND		50		ug/L			06/15/15 19:45	1
n-Butylbenzene	ND		1.0		ug/L			06/15/15 19:45	1
sec-Butylbenzene	ND		1.0		ug/L			06/15/15 19:45	1
tert-Butylbenzene	ND		1.0		ug/L			06/15/15 19:45	1
Carbon disulfide	ND		5.0		ug/L			06/15/15 19:45	1
Carbon tetrachloride	ND		0.50		ug/L			06/15/15 19:45	1
Chlorobenzene	ND		0.50		ug/L			06/15/15 19:45	1
Chloroethane	ND		1.0		ug/L			06/15/15 19:45	1
Chloroform	ND		1.0		ug/L			06/15/15 19:45	1
Chloromethane	ND		1.0		ug/L			06/15/15 19:45	1
2-Chlorotoluene	ND		0.50		ug/L			06/15/15 19:45	1
4-Chlorotoluene	ND		0.50		ug/L			06/15/15 19:45	1
Chlorodibromomethane	ND		0.50		ug/L			06/15/15 19:45	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/15/15 19:45	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/15/15 19:45	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/15/15 19:45	1
1,3-Dichloropropane	ND		1.0		ug/L			06/15/15 19:45	1
1,1-Dichloropropene	ND		0.50		ug/L			06/15/15 19:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/15/15 19:45	1
Ethylene Dibromide	ND		0.50		ug/L			06/15/15 19:45	1
Dibromomethane	ND		0.50		ug/L			06/15/15 19:45	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/15/15 19:45	1
1,1-Dichloroethane	ND		0.50		ug/L			06/15/15 19:45	1
1,2-Dichloroethane	**0.97**		0.50		ug/L			06/15/15 19:45	1
1,1-Dichloroethene	ND		0.50		ug/L			06/15/15 19:45	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 19:45	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 19:45	1
1,2-Dichloropropane	ND		0.50		ug/L			06/15/15 19:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 19:45	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 19:45	1
Ethylbenzene	ND		0.50		ug/L			06/15/15 19:45	1
Hexachlorobutadiene	ND		1.0		ug/L			06/15/15 19:45	1
2-Hexanone	ND		50		ug/L			06/15/15 19:45	1
Isopropylbenzene	ND		0.50		ug/L			06/15/15 19:45	1
4-Isopropyltoluene	ND		1.0		ug/L			06/15/15 19:45	1
Methylene Chloride	ND		5.0		ug/L			06/15/15 19:45	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/15/15 19:45	1
Naphthalene	ND		1.0		ug/L			06/15/15 19:45	1
N-Propylbenzene	ND		1.0		ug/L			06/15/15 19:45	1
Styrene	ND		0.50		ug/L			06/15/15 19:45	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/15/15 19:45	1

Client Sample ID: MW-15
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-5
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			06/15/15 19:45	1
Tetrachloroethene	ND		0.50		ug/L			06/15/15 19:45	1
Toluene	ND		0.50		ug/L			06/15/15 19:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/15/15 19:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/15/15 19:45	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/15/15 19:45	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/15/15 19:45	1
Trichloroethene	ND		0.50		ug/L			06/15/15 19:45	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/15 19:45	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/15/15 19:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/15/15 19:45	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/15/15 19:45	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/15/15 19:45	1
Vinyl acetate	ND		10		ug/L			06/15/15 19:45	1
Vinyl chloride	ND		0.50		ug/L			06/15/15 19:45	1
Xylenes, Total	ND		1.0		ug/L			06/15/15 19:45	1
2,2-Dichloropropane	ND		0.50		ug/L			06/15/15 19:45	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/15/15 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*		*06/15/15 19:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*72 - 130*		*06/15/15 19:45*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/15/15 19:45*	*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			06/12/15 20:06	1
Sulfate	**42**		10		mg/L			06/12/15 20:23	10
Fluoride	ND		1.0		mg/L			06/12/15 20:06	1
Nitrate as NO3	**4.3**		1.0		mg/L			06/12/15 20:06	1
Chloride	**47**		10		mg/L			06/12/15 20:23	10
Bromide	ND		1.0		mg/L			06/12/15 20:06	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.80**		0.020		mg/L		06/16/15 14:32	06/17/15 17:34	1
Potassium	**5.0**		1.0		mg/L		06/16/15 14:32	06/17/15 17:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**54**	**HF**	0.10		mg/L			06/17/15 16:37	1
Ferrous Iron	**1.4**	**HF**	0.10		mg/L			06/12/15 18:09	1
Ammonia	ND		0.20		mg/L		06/16/15 16:25	06/16/15 19:16	1
Orthophosphate as P	ND		0.020		mg/L			06/12/15 22:37	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

Client Sample ID: MW-16
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-6
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			06/16/15 01:07	1
Acetone	ND		50		ug/L			06/16/15 01:07	1
Benzene	ND		0.50		ug/L			06/16/15 01:07	1
Dichlorobromomethane	ND		0.50		ug/L			06/16/15 01:07	1
Bromobenzene	ND		1.0		ug/L			06/16/15 01:07	1
Chlorobromomethane	ND		1.0		ug/L			06/16/15 01:07	1
Bromoform	ND		1.0		ug/L			06/16/15 01:07	1
Bromomethane	ND		1.0		ug/L			06/16/15 01:07	1
2-Butanone (MEK)	ND		50		ug/L			06/16/15 01:07	1
n-Butylbenzene	ND		1.0		ug/L			06/16/15 01:07	1
sec-Butylbenzene	ND		1.0		ug/L			06/16/15 01:07	1
tert-Butylbenzene	ND		1.0		ug/L			06/16/15 01:07	1
Carbon disulfide	ND		5.0		ug/L			06/16/15 01:07	1
Carbon tetrachloride	ND		0.50		ug/L			06/16/15 01:07	1
Chlorobenzene	ND		0.50		ug/L			06/16/15 01:07	1
Chloroethane	ND		1.0		ug/L			06/16/15 01:07	1
Chloroform	ND		1.0		ug/L			06/16/15 01:07	1
Chloromethane	ND		1.0		ug/L			06/16/15 01:07	1
2-Chlorotoluene	ND		0.50		ug/L			06/16/15 01:07	1
4-Chlorotoluene	ND		0.50		ug/L			06/16/15 01:07	1
Chlorodibromomethane	ND		0.50		ug/L			06/16/15 01:07	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/16/15 01:07	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/16/15 01:07	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/16/15 01:07	1
1,3-Dichloropropane	ND		1.0		ug/L			06/16/15 01:07	1
1,1-Dichloropropene	ND		0.50		ug/L			06/16/15 01:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/16/15 01:07	1
Ethylene Dibromide	ND		0.50		ug/L			06/16/15 01:07	1
Dibromomethane	ND		0.50		ug/L			06/16/15 01:07	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/16/15 01:07	1
1,1-Dichloroethane	ND		0.50		ug/L			06/16/15 01:07	1
1,2-Dichloroethane	ND		0.50		ug/L			06/16/15 01:07	1
1,1-Dichloroethene	ND		0.50		ug/L			06/16/15 01:07	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/16/15 01:07	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/16/15 01:07	1
1,2-Dichloropropane	ND		0.50		ug/L			06/16/15 01:07	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/16/15 01:07	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/16/15 01:07	1
Ethylbenzene	ND		0.50		ug/L			06/16/15 01:07	1
Hexachlorobutadiene	ND		1.0		ug/L			06/16/15 01:07	1
2-Hexanone	ND		50		ug/L			06/16/15 01:07	1
Isopropylbenzene	ND		0.50		ug/L			06/16/15 01:07	1
4-Isopropyltoluene	ND		1.0		ug/L			06/16/15 01:07	1
Methylene Chloride	ND		5.0		ug/L			06/16/15 01:07	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/16/15 01:07	1
Naphthalene	ND		1.0		ug/L			06/16/15 01:07	1
N-Propylbenzene	ND		1.0		ug/L			06/16/15 01:07	1
Styrene	ND		0.50		ug/L			06/16/15 01:07	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/16/15 01:07	1

Client Sample ID: MW-16
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-6
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			06/16/15 01:07	1
Tetrachloroethene	ND		0.50		ug/L			06/16/15 01:07	1
Toluene	ND		0.50		ug/L			06/16/15 01:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/16/15 01:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/16/15 01:07	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/16/15 01:07	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/16/15 01:07	1
Trichloroethene	ND		0.50		ug/L			06/16/15 01:07	1
Trichlorofluoromethane	ND		1.0		ug/L			06/16/15 01:07	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/16/15 01:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/16/15 01:07	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/16/15 01:07	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/16/15 01:07	1
Vinyl acetate	ND		10		ug/L			06/16/15 01:07	1
Vinyl chloride	ND		0.50		ug/L			06/16/15 01:07	1
Xylenes, Total	ND		1.0		ug/L			06/16/15 01:07	1
2,2-Dichloropropane	ND		0.50		ug/L			06/16/15 01:07	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/16/15 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*67 - 130*		*06/16/15 01:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*		*06/16/15 01:07*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*06/16/15 01:07*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			06/12/15 21:15	1
Sulfate	**10**		1.0		mg/L			06/12/15 21:15	1
Fluoride	ND		1.0		mg/L			06/12/15 21:15	1
Nitrate as NO3	ND		1.0		mg/L			06/12/15 21:15	1
Chloride	**26**		10		mg/L			06/12/15 21:32	10
Bromide	ND		1.0		mg/L			06/12/15 21:15	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.29**		0.020		mg/L		06/16/15 15:01	06/17/15 17:49	1
Potassium	ND		1.0		mg/L		06/16/15 15:01	06/17/15 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	**3.3**	**HF**	0.10		mg/L			06/17/15 16:37	1
Ferrous Iron	**0.14**	**HF**	0.10		mg/L			06/12/15 18:09	1
Ammonia	ND		0.20		mg/L		06/16/15 16:25	06/16/15 19:19	1
Orthophosphate as P	**0.040**		0.020		mg/L			06/12/15 22:37	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

Client Sample ID: MW-5R
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	2.8	HF	0.10		mg/L			06/17/15 16:38	1
Ferrous Iron	0.99	HF	0.10		mg/L			06/12/15 18:09	1

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

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)
720-65451-1	MW-12	102	90	100
720-65451-2	MW-11R	105	88	101
720-65451-3	MW-14	102	89	101
720-65451-4	MW-13	101	90	101
720-65451-5	MW-15	100	89	100
720-65451-6	MW-16	91	97	91
LCS 720-183592/6	Lab Control Sample	97	82	100
LCS 720-183592/8	Lab Control Sample	103	87	98
LCS 720-183600/6	Lab Control Sample	93	86	94
LCS 720-183600/8	Lab Control Sample	92	91	95
LCSD 720-183592/7	Lab Control Sample Dup	101	82	99
LCSD 720-183592/9	Lab Control Sample Dup	98	85	99
LCSD 720-183600/7	Lab Control Sample Dup	93	89	94
LCSD 720-183600/9	Lab Control Sample Dup	94	92	95
MB 720-183592/5	Method Blank	101	88	97
MB 720-183600/5	Method Blank	90	90	91

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 720-183592/5
Matrix: Water
Analysis Batch: 183592

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			06/15/15 09:37	1
Acetone	ND		50		ug/L			06/15/15 09:37	1
Benzene	ND		0.50		ug/L			06/15/15 09:37	1
Dichlorobromomethane	ND		0.50		ug/L			06/15/15 09:37	1
Bromobenzene	ND		1.0		ug/L			06/15/15 09:37	1
Chlorobromomethane	ND		1.0		ug/L			06/15/15 09:37	1
Bromoform	ND		1.0		ug/L			06/15/15 09:37	1
Bromomethane	ND		1.0		ug/L			06/15/15 09:37	1
2-Butanone (MEK)	ND		50		ug/L			06/15/15 09:37	1
n-Butylbenzene	ND		1.0		ug/L			06/15/15 09:37	1
sec-Butylbenzene	ND		1.0		ug/L			06/15/15 09:37	1
tert-Butylbenzene	ND		1.0		ug/L			06/15/15 09:37	1
Carbon disulfide	ND		5.0		ug/L			06/15/15 09:37	1
Carbon tetrachloride	ND		0.50		ug/L			06/15/15 09:37	1
Chlorobenzene	ND		0.50		ug/L			06/15/15 09:37	1
Chloroethane	ND		1.0		ug/L			06/15/15 09:37	1
Chloroform	ND		1.0		ug/L			06/15/15 09:37	1
Chloromethane	ND		1.0		ug/L			06/15/15 09:37	1
2-Chlorotoluene	ND		0.50		ug/L			06/15/15 09:37	1
4-Chlorotoluene	ND		0.50		ug/L			06/15/15 09:37	1
Chlorodibromomethane	ND		0.50		ug/L			06/15/15 09:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/15/15 09:37	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/15/15 09:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/15/15 09:37	1
1,3-Dichloropropane	ND		1.0		ug/L			06/15/15 09:37	1
1,1-Dichloropropene	ND		0.50		ug/L			06/15/15 09:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/15/15 09:37	1
Ethylene Dibromide	ND		0.50		ug/L			06/15/15 09:37	1
Dibromomethane	ND		0.50		ug/L			06/15/15 09:37	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/15/15 09:37	1
1,1-Dichloroethane	ND		0.50		ug/L			06/15/15 09:37	1
1,2-Dichloroethane	ND		0.50		ug/L			06/15/15 09:37	1
1,1-Dichloroethene	ND		0.50		ug/L			06/15/15 09:37	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 09:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 09:37	1
1,2-Dichloropropane	ND		0.50		ug/L			06/15/15 09:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 09:37	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 09:37	1
Ethylbenzene	ND		0.50		ug/L			06/15/15 09:37	1
Hexachlorobutadiene	ND		1.0		ug/L			06/15/15 09:37	1
2-Hexanone	ND		50		ug/L			06/15/15 09:37	1
Isopropylbenzene	ND		0.50		ug/L			06/15/15 09:37	1
4-Isopropyltoluene	ND		1.0		ug/L			06/15/15 09:37	1
Methylene Chloride	ND		5.0		ug/L			06/15/15 09:37	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/15/15 09:37	1
Naphthalene	ND		1.0		ug/L			06/15/15 09:37	1
N-Propylbenzene	ND		1.0		ug/L			06/15/15 09:37	1
Styrene	ND		0.50		ug/L			06/15/15 09:37	1

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

Lab Sample ID: MB 720-183592/5
Matrix: Water
Analysis Batch: 183592

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			06/15/15 09:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/15/15 09:37	1
Tetrachloroethene	ND		0.50		ug/L			06/15/15 09:37	1
Toluene	ND		0.50		ug/L			06/15/15 09:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/15/15 09:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/15/15 09:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/15/15 09:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/15/15 09:37	1
Trichloroethene	ND		0.50		ug/L			06/15/15 09:37	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/15 09:37	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/15/15 09:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/15/15 09:37	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/15/15 09:37	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/15/15 09:37	1
Vinyl acetate	ND		10		ug/L			06/15/15 09:37	1
Vinyl chloride	ND		0.50		ug/L			06/15/15 09:37	1
Xylenes, Total	ND		1.0		ug/L			06/15/15 09:37	1
2,2-Dichloropropane	ND		0.50		ug/L			06/15/15 09:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/15/15 09:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*06/15/15 09:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 130*		*06/15/15 09:37*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*06/15/15 09:37*	*1*

Lab Sample ID: LCS 720-183592/6
Matrix: Water
Analysis Batch: 183592

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	21.4		ug/L		86	62 - 130
Acetone	125	113		ug/L		91	26 - 180
Benzene	25.0	24.6		ug/L		99	79 - 130
Dichlorobromomethane	25.0	22.0		ug/L		88	70 - 130
Bromobenzene	25.0	24.7		ug/L		99	70 - 130
Chlorobromomethane	25.0	23.2		ug/L		93	70 - 130
Bromoform	25.0	23.0		ug/L		92	68 - 136
Bromomethane	25.0	25.9		ug/L		104	43 - 151
2-Butanone (MEK)	125	122		ug/L		97	54 - 130
n-Butylbenzene	25.0	26.9		ug/L		108	70 - 142
sec-Butylbenzene	25.0	26.1		ug/L		104	70 - 134
tert-Butylbenzene	25.0	25.2		ug/L		101	70 - 135
Carbon disulfide	25.0	23.3		ug/L		93	58 - 130
Carbon tetrachloride	25.0	22.6		ug/L		90	70 - 146
Chlorobenzene	25.0	24.8		ug/L		99	70 - 130
Chloroethane	25.0	25.4		ug/L		101	62 - 138
Chloroform	25.0	22.7		ug/L		91	70 - 130

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

Lab Sample ID: LCS 720-183592/6
Matrix: Water
Analysis Batch: 183592

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	24.0		ug/L		96	52 - 175
2-Chlorotoluene	25.0	25.4		ug/L		102	70 - 130
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130
Chlorodibromomethane	25.0	22.4		ug/L		90	70 - 145
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	22.9		ug/L		92	70 - 130
1,1-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.5		ug/L		90	70 - 136
Ethylene Dibromide	25.0	22.9		ug/L		92	70 - 130
Dibromomethane	25.0	23.2		ug/L		93	70 - 130
Dichlorodifluoromethane	25.0	22.8		ug/L		91	34 - 132
1,1-Dichloroethane	25.0	23.1		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	20.1		ug/L		81	61 - 132
1,1-Dichloroethene	25.0	21.2		ug/L		85	64 - 128
cis-1,2-Dichloroethene	25.0	22.9		ug/L		91	70 - 130
trans-1,2-Dichloroethene	25.0	23.3		ug/L		93	68 - 130
1,2-Dichloropropane	25.0	23.6		ug/L		95	70 - 130
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130
trans-1,3-Dichloropropene	25.0	25.4		ug/L		101	70 - 140
Ethylbenzene	25.0	25.4		ug/L		102	80 - 120
Hexachlorobutadiene	25.0	23.9		ug/L		96	70 - 130
2-Hexanone	125	106		ug/L		85	60 - 164
Isopropylbenzene	25.0	25.1		ug/L		100	70 - 130
4-Isopropyltoluene	25.0	25.5		ug/L		102	70 - 130
Methylene Chloride	25.0	22.4		ug/L		90	70 - 147
4-Methyl-2-pentanone (MIBK)	125	105		ug/L		84	58 - 130
Naphthalene	25.0	22.3		ug/L		89	70 - 130
N-Propylbenzene	25.0	26.7		ug/L		107	70 - 130
Styrene	25.0	23.8		ug/L		95	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.7		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130
Tetrachloroethene	25.0	24.8		ug/L		99	70 - 130
Toluene	25.0	25.8		ug/L		103	78 - 120
1,2,3-Trichlorobenzene	25.0	22.9		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,1,1-Trichloroethane	25.0	22.3		ug/L		89	70 - 130
1,1,2-Trichloroethane	25.0	23.4		ug/L		94	70 - 130
Trichloroethene	25.0	24.5		ug/L		98	70 - 130
Trichlorofluoromethane	25.0	22.7		ug/L		91	66 - 132
1,2,3-Trichloropropane	25.0	23.5		ug/L		94	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.0		ug/L		88	42 - 162
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 132
1,3,5-Trimethylbenzene	25.0	25.5		ug/L		102	70 - 130
Vinyl acetate	25.0	23.6		ug/L		94	43 - 163
Vinyl chloride	25.0	25.1		ug/L		101	54 - 135

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

Lab Sample ID: LCS 720-183592/6
Matrix: Water
Analysis Batch: 183592

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	25.1		ug/L		100	70 - 142		
o-Xylene			25.0	24.5		ug/L		98	70 - 130		
2,2-Dichloropropane			25.0	25.7		ug/L		103	70 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*82*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCS 720-183592/8
Matrix: Water
Analysis Batch: 183592

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	488		ug/L		98	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 720-183592/7
Matrix: Water
Analysis Batch: 183592

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	21.2		ug/L		85	62 - 130	1	20
Acetone			125	115		ug/L		92	26 - 180	1	30
Benzene			25.0	24.0		ug/L		96	79 - 130	3	20
Dichlorobromomethane			25.0	21.8		ug/L		87	70 - 130	1	20
Bromobenzene			25.0	23.9		ug/L		96	70 - 130	3	20
Chlorobromomethane			25.0	23.0		ug/L		92	70 - 130	1	20
Bromoform			25.0	23.6		ug/L		94	68 - 136	2	20
Bromomethane			25.0	26.3		ug/L		105	43 - 151	2	20
2-Butanone (MEK)			125	124		ug/L		99	54 - 130	2	20
n-Butylbenzene			25.0	26.5		ug/L		106	70 - 142	1	20
sec-Butylbenzene			25.0	25.6		ug/L		102	70 - 134	2	20
tert-Butylbenzene			25.0	24.4		ug/L		98	70 - 135	3	20
Carbon disulfide			25.0	23.2		ug/L		93	58 - 130	0	20
Carbon tetrachloride			25.0	22.4		ug/L		90	70 - 146	1	20
Chlorobenzene			25.0	24.7		ug/L		99	70 - 130	1	20
Chloroethane			25.0	26.4		ug/L		106	62 - 138	4	20
Chloroform			25.0	22.2		ug/L		89	70 - 130	2	20
Chloromethane			25.0	24.7		ug/L		99	52 - 175	3	20
2-Chlorotoluene			25.0	24.5		ug/L		98	70 - 130	4	20
4-Chlorotoluene			25.0	24.5		ug/L		98	70 - 130	3	20
Chlorodibromomethane			25.0	22.4		ug/L		90	70 - 145	0	20

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

Lab Sample ID: LCSD 720-183592/7
Matrix: Water
Analysis Batch: 183592

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	24.2		ug/L		97	70 - 130	1	20
1,3-Dichlorobenzene			25.0	24.6		ug/L		98	70 - 130	2	20
1,4-Dichlorobenzene			25.0	24.5		ug/L		98	70 - 130	0	20
1,3-Dichloropropane			25.0	23.1		ug/L		92	70 - 130	1	20
1,1-Dichloropropene			25.0	25.2		ug/L		101	70 - 130	3	20
1,2-Dibromo-3-Chloropropane			25.0	23.5		ug/L		94	70 - 136	4	20
Ethylene Dibromide			25.0	23.0		ug/L		92	70 - 130	0	20
Dibromomethane			25.0	23.3		ug/L		93	70 - 130	1	20
Dichlorodifluoromethane			25.0	23.7		ug/L		95	34 - 132	4	20
1,1-Dichloroethane			25.0	22.7		ug/L		91	70 - 130	2	20
1,2-Dichloroethane			25.0	20.0		ug/L		80	61 - 132	1	20
1,1-Dichloroethene			25.0	21.4		ug/L		86	64 - 128	1	20
cis-1,2-Dichloroethene			25.0	22.4		ug/L		89	70 - 130	2	20
trans-1,2-Dichloroethene			25.0	23.1		ug/L		92	68 - 130	1	20
1,2-Dichloropropane			25.0	23.4		ug/L		93	70 - 130	1	20
cis-1,3-Dichloropropene			25.0	24.3		ug/L		97	70 - 130	1	20
trans-1,3-Dichloropropene			25.0	25.5		ug/L		102	70 - 140	1	20
Ethylbenzene			25.0	25.1		ug/L		100	80 - 120	1	20
Hexachlorobutadiene			25.0	24.1		ug/L		96	70 - 130	1	20
2-Hexanone			125	109		ug/L		87	60 - 164	3	20
Isopropylbenzene			25.0	25.0		ug/L		100	70 - 130	0	20
4-Isopropyltoluene			25.0	25.0		ug/L		100	70 - 130	2	20
Methylene Chloride			25.0	22.9		ug/L		92	70 - 147	2	20
4-Methyl-2-pentanone (MIBK)			125	108		ug/L		86	58 - 130	3	20
Naphthalene			25.0	23.2		ug/L		93	70 - 130	4	20
N-Propylbenzene			25.0	25.6		ug/L		103	70 - 130	4	20
Styrene			25.0	23.9		ug/L		95	70 - 130	0	20
1,1,1,2-Tetrachloroethane			25.0	23.6		ug/L		94	70 - 130	1	20
1,1,2,2-Tetrachloroethane			25.0	24.9		ug/L		100	70 - 130	0	20
Tetrachloroethene			25.0	24.2		ug/L		97	70 - 130	2	20
Toluene			25.0	25.2		ug/L		101	78 - 120	2	20
1,2,3-Trichlorobenzene			25.0	23.4		ug/L		93	70 - 130	2	20
1,2,4-Trichlorobenzene			25.0	24.4		ug/L		98	70 - 130	1	20
1,1,1-Trichloroethane			25.0	21.9		ug/L		88	70 - 130	2	20
1,1,2-Trichloroethane			25.0	23.2		ug/L		93	70 - 130	1	20
Trichloroethene			25.0	23.9		ug/L		96	70 - 130	2	20
Trichlorofluoromethane			25.0	23.1		ug/L		92	66 - 132	2	20
1,2,3-Trichloropropane			25.0	23.5		ug/L		94	70 - 130	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	22.1		ug/L		88	42 - 162	0	20
1,2,4-Trimethylbenzene			25.0	24.5		ug/L		98	70 - 132	2	20
1,3,5-Trimethylbenzene			25.0	24.6		ug/L		98	70 - 130	4	20
Vinyl acetate			25.0	23.7		ug/L		95	43 - 163	1	20
Vinyl chloride			25.0	25.7		ug/L		103	54 - 135	2	20
m-Xylene & p-Xylene			25.0	24.8		ug/L		99	70 - 142	1	20
o-Xylene			25.0	24.5		ug/L		98	70 - 130	0	20
2,2-Dichloropropane			25.0	26.1		ug/L		104	70 - 140	2	20

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

Lab Sample ID: LCSD 720-183592/7
Matrix: Water
Analysis Batch: 183592

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)	*82*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 720-183592/9
Matrix: Water
Analysis Batch: 183592

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	492		ug/L		98	62 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*85*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 720-183600/5
Matrix: Water
Analysis Batch: 183600

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			06/15/15 16:12	1
Acetone	ND		50		ug/L			06/15/15 16:12	1
Benzene	ND		0.50		ug/L			06/15/15 16:12	1
Dichlorobromomethane	ND		0.50		ug/L			06/15/15 16:12	1
Bromobenzene	ND		1.0		ug/L			06/15/15 16:12	1
Chlorobromomethane	ND		1.0		ug/L			06/15/15 16:12	1
Bromoform	ND		1.0		ug/L			06/15/15 16:12	1
Bromomethane	ND		1.0		ug/L			06/15/15 16:12	1
2-Butanone (MEK)	ND		50		ug/L			06/15/15 16:12	1
n-Butylbenzene	ND		1.0		ug/L			06/15/15 16:12	1
sec-Butylbenzene	ND		1.0		ug/L			06/15/15 16:12	1
tert-Butylbenzene	ND		1.0		ug/L			06/15/15 16:12	1
Carbon disulfide	ND		5.0		ug/L			06/15/15 16:12	1
Carbon tetrachloride	ND		0.50		ug/L			06/15/15 16:12	1
Chlorobenzene	ND		0.50		ug/L			06/15/15 16:12	1
Chloroethane	ND		1.0		ug/L			06/15/15 16:12	1
Chloroform	ND		1.0		ug/L			06/15/15 16:12	1
Chloromethane	ND		1.0		ug/L			06/15/15 16:12	1
2-Chlorotoluene	ND		0.50		ug/L			06/15/15 16:12	1
4-Chlorotoluene	ND		0.50		ug/L			06/15/15 16:12	1
Chlorodibromomethane	ND		0.50		ug/L			06/15/15 16:12	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/15/15 16:12	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/15/15 16:12	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/15/15 16:12	1
1,3-Dichloropropane	ND		1.0		ug/L			06/15/15 16:12	1
1,1-Dichloropropene	ND		0.50		ug/L			06/15/15 16:12	1

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

Lab Sample ID: MB 720-183600/5
Matrix: Water
Analysis Batch: 183600

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			06/15/15 16:12	1
Ethylene Dibromide	ND		0.50		ug/L			06/15/15 16:12	1
Dibromomethane	ND		0.50		ug/L			06/15/15 16:12	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/15/15 16:12	1
1,1-Dichloroethane	ND		0.50		ug/L			06/15/15 16:12	1
1,2-Dichloroethane	ND		0.50		ug/L			06/15/15 16:12	1
1,1-Dichloroethene	ND		0.50		ug/L			06/15/15 16:12	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 16:12	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/15/15 16:12	1
1,2-Dichloropropane	ND		0.50		ug/L			06/15/15 16:12	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 16:12	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/15/15 16:12	1
Ethylbenzene	ND		0.50		ug/L			06/15/15 16:12	1
Hexachlorobutadiene	ND		1.0		ug/L			06/15/15 16:12	1
2-Hexanone	ND		50		ug/L			06/15/15 16:12	1
Isopropylbenzene	ND		0.50		ug/L			06/15/15 16:12	1
4-Isopropyltoluene	ND		1.0		ug/L			06/15/15 16:12	1
Methylene Chloride	ND		5.0		ug/L			06/15/15 16:12	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/15/15 16:12	1
Naphthalene	ND		1.0		ug/L			06/15/15 16:12	1
N-Propylbenzene	ND		1.0		ug/L			06/15/15 16:12	1
Styrene	ND		0.50		ug/L			06/15/15 16:12	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/15/15 16:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/15/15 16:12	1
Tetrachloroethene	ND		0.50		ug/L			06/15/15 16:12	1
Toluene	ND		0.50		ug/L			06/15/15 16:12	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/15/15 16:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/15/15 16:12	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/15/15 16:12	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/15/15 16:12	1
Trichloroethene	ND		0.50		ug/L			06/15/15 16:12	1
Trichlorofluoromethane	ND		1.0		ug/L			06/15/15 16:12	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/15/15 16:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/15/15 16:12	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/15/15 16:12	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/15/15 16:12	1
Vinyl acetate	ND		10		ug/L			06/15/15 16:12	1
Vinyl chloride	ND		0.50		ug/L			06/15/15 16:12	1
Xylenes, Total	ND		1.0		ug/L			06/15/15 16:12	1
2,2-Dichloropropane	ND		0.50		ug/L			06/15/15 16:12	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/15/15 16:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*67 - 130*		*06/15/15 16:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 130*		*06/15/15 16:12*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*06/15/15 16:12*	*1*

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

Lab Sample ID: LCS 720-183600/6
Matrix: Water
Analysis Batch: 183600

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	21.8		ug/L		87	62 - 130
Acetone	125	118		ug/L		94	26 - 180
Benzene	25.0	23.4		ug/L		93	79 - 130
Dichlorobromomethane	25.0	24.4		ug/L		97	70 - 130
Bromobenzene	25.0	22.7		ug/L		91	70 - 130
Chlorobromomethane	25.0	23.2		ug/L		93	70 - 130
Bromoform	25.0	23.9		ug/L		96	68 - 136
Bromomethane	25.0	25.6		ug/L		102	43 - 151
2-Butanone (MEK)	125	116		ug/L		93	54 - 130
n-Butylbenzene	25.0	24.8		ug/L		99	70 - 142
sec-Butylbenzene	25.0	24.4		ug/L		98	70 - 134
tert-Butylbenzene	25.0	23.9		ug/L		96	70 - 135
Carbon disulfide	25.0	24.3		ug/L		97	58 - 130
Carbon tetrachloride	25.0	27.6		ug/L		110	70 - 146
Chlorobenzene	25.0	22.5		ug/L		90	70 - 130
Chloroethane	25.0	25.1		ug/L		101	62 - 138
Chloroform	25.0	23.9		ug/L		96	70 - 130
Chloromethane	25.0	21.0		ug/L		84	52 - 175
2-Chlorotoluene	25.0	23.2		ug/L		93	70 - 130
4-Chlorotoluene	25.0	23.6		ug/L		95	70 - 130
Chlorodibromomethane	25.0	25.2		ug/L		101	70 - 145
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,3-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,4-Dichlorobenzene	25.0	22.9		ug/L		92	70 - 130
1,3-Dichloropropane	25.0	22.6		ug/L		90	70 - 130
1,1-Dichloropropene	25.0	26.5		ug/L		106	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.4		ug/L		93	70 - 136
Ethylene Dibromide	25.0	23.0		ug/L		92	70 - 130
Dibromomethane	25.0	23.5		ug/L		94	70 - 130
Dichlorodifluoromethane	25.0	29.2		ug/L		117	34 - 132
1,1-Dichloroethane	25.0	23.4		ug/L		94	70 - 130
1,2-Dichloroethane	25.0	23.4		ug/L		94	61 - 132
1,1-Dichloroethene	25.0	22.3		ug/L		89	64 - 128
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	68 - 130
1,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
cis-1,3-Dichloropropene	25.0	25.4		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	27.4		ug/L		110	70 - 140
Ethylbenzene	25.0	23.4		ug/L		94	80 - 120
Hexachlorobutadiene	25.0	23.8		ug/L		95	70 - 130
2-Hexanone	125	109		ug/L		87	60 - 164
Isopropylbenzene	25.0	23.9		ug/L		96	70 - 130
4-Isopropyltoluene	25.0	24.0		ug/L		96	70 - 130
Methylene Chloride	25.0	24.8		ug/L		99	70 - 147
4-Methyl-2-pentanone (MIBK)	125	108		ug/L		86	58 - 130
Naphthalene	25.0	22.0		ug/L		88	70 - 130
N-Propylbenzene	25.0	24.5		ug/L		98	70 - 130
Styrene	25.0	22.7		ug/L		91	70 - 130

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

Lab Sample ID: LCS 720-183600/6
Matrix: Water
Analysis Batch: 183600

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	25.6		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.2		ug/L		89	70 - 130
Tetrachloroethene	25.0	24.2		ug/L		97	70 - 130
Toluene	25.0	22.8		ug/L		91	78 - 120
1,2,3-Trichlorobenzene	25.0	21.7		ug/L		87	70 - 130
1,2,4-Trichlorobenzene	25.0	23.1		ug/L		92	70 - 130
1,1,1-Trichloroethane	25.0	25.3		ug/L		101	70 - 130
1,1,2-Trichloroethane	25.0	22.5		ug/L		90	70 - 130
Trichloroethene	25.0	24.5		ug/L		98	70 - 130
Trichlorofluoromethane	25.0	27.3		ug/L		109	66 - 132
1,2,3-Trichloropropane	25.0	22.2		ug/L		89	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.1		ug/L		88	42 - 162
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 132
1,3,5-Trimethylbenzene	25.0	24.1		ug/L		96	70 - 130
Vinyl acetate	25.0	20.1		ug/L		80	43 - 163
Vinyl chloride	25.0	21.8		ug/L		87	54 - 135
m-Xylene & p-Xylene	25.0	23.7		ug/L		95	70 - 142
o-Xylene	25.0	23.6		ug/L		94	70 - 130
2,2-Dichloropropane	25.0	29.0		ug/L		116	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*72 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCS 720-183600/8
Matrix: Water
Analysis Batch: 183600

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	526		ug/L		105	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*72 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 720-183600/7
Matrix: Water
Analysis Batch: 183600

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	22.2		ug/L		89	62 - 130	2	20
Acetone	125	116		ug/L		93	26 - 180	2	30
Benzene	25.0	23.6		ug/L		94	79 - 130	1	20
Dichlorobromomethane	25.0	24.6		ug/L		98	70 - 130	1	20

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

Lab Sample ID: LCSD 720-183600/7
Matrix: Water
Analysis Batch: 183600

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	23.1		ug/L		92	70 - 130	2	20
Chlorobromomethane	25.0	21.1		ug/L		84	70 - 130	9	20
Bromoform	25.0	24.2		ug/L		97	68 - 136	1	20
Bromomethane	25.0	25.7		ug/L		103	43 - 151	0	20
2-Butanone (MEK)	125	113		ug/L		90	54 - 130	2	20
n-Butylbenzene	25.0	24.6		ug/L		99	70 - 142	1	20
sec-Butylbenzene	25.0	24.5		ug/L		98	70 - 134	0	20
tert-Butylbenzene	25.0	24.1		ug/L		96	70 - 135	1	20
Carbon disulfide	25.0	24.5		ug/L		98	58 - 130	1	20
Carbon tetrachloride	25.0	27.6		ug/L		110	70 - 146	0	20
Chlorobenzene	25.0	22.8		ug/L		91	70 - 130	1	20
Chloroethane	25.0	25.3		ug/L		101	62 - 138	1	20
Chloroform	25.0	24.1		ug/L		96	70 - 130	1	20
Chloromethane	25.0	21.4		ug/L		86	52 - 175	2	20
2-Chlorotoluene	25.0	23.4		ug/L		94	70 - 130	1	20
4-Chlorotoluene	25.0	23.5		ug/L		94	70 - 130	0	20
Chlorodibromomethane	25.0	25.6		ug/L		102	70 - 145	1	20
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130	0	20
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	1	20
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	1	20
1,3-Dichloropropane	25.0	22.7		ug/L		91	70 - 130	0	20
1,1-Dichloropropene	25.0	26.8		ug/L		107	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	23.3		ug/L		93	70 - 136	0	20
Ethylene Dibromide	25.0	23.2		ug/L		93	70 - 130	1	20
Dibromomethane	25.0	23.5		ug/L		94	70 - 130	0	20
Dichlorodifluoromethane	25.0	29.1		ug/L		116	34 - 132	1	20
1,1-Dichloroethane	25.0	23.7		ug/L		95	70 - 130	1	20
1,2-Dichloroethane	25.0	23.5		ug/L		94	61 - 132	1	20
1,1-Dichloroethene	25.0	22.7		ug/L		91	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	23.9		ug/L		96	70 - 130	0	20
trans-1,2-Dichloroethene	25.0	24.1		ug/L		97	68 - 130	2	20
1,2-Dichloropropane	25.0	23.4		ug/L		94	70 - 130	0	20
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	27.6		ug/L		110	70 - 140	1	20
Ethylbenzene	25.0	23.7		ug/L		95	80 - 120	1	20
Hexachlorobutadiene	25.0	23.7		ug/L		95	70 - 130	0	20
2-Hexanone	125	108		ug/L		86	60 - 164	1	20
Isopropylbenzene	25.0	24.2		ug/L		97	70 - 130	1	20
4-Isopropyltoluene	25.0	24.2		ug/L		97	70 - 130	1	20
Methylene Chloride	25.0	25.3		ug/L		101	70 - 147	2	20
4-Methyl-2-pentanone (MIBK)	125	107		ug/L		86	58 - 130	1	20
Naphthalene	25.0	22.3		ug/L		89	70 - 130	2	20
N-Propylbenzene	25.0	24.5		ug/L		98	70 - 130	0	20
Styrene	25.0	23.1		ug/L		93	70 - 130	2	20
1,1,1,2-Tetrachloroethane	25.0	26.0		ug/L		104	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	22.5		ug/L		90	70 - 130	2	20
Tetrachloroethene	25.0	24.4		ug/L		98	70 - 130	1	20
Toluene	25.0	23.2		ug/L		93	78 - 120	2	20

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

Lab Sample ID: LCSD 720-183600/7
Matrix: Water
Analysis Batch: 183600

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	22.1		ug/L		89	70 - 130	2	20
1,2,4-Trichlorobenzene			25.0	23.1		ug/L		92	70 - 130	0	20
1,1,1-Trichloroethane			25.0	25.5		ug/L		102	70 - 130	1	20
1,1,2-Trichloroethane			25.0	22.7		ug/L		91	70 - 130	1	20
Trichloroethene			25.0	24.7		ug/L		99	70 - 130	1	20
Trichlorofluoromethane			25.0	27.1		ug/L		108	66 - 132	1	20
1,2,3-Trichloropropane			25.0	22.2		ug/L		89	70 - 130	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	22.5		ug/L		90	42 - 162	2	20
1,2,4-Trimethylbenzene			25.0	24.1		ug/L		96	70 - 132	0	20
1,3,5-Trimethylbenzene			25.0	24.6		ug/L		98	70 - 130	2	20
Vinyl acetate			25.0	20.6		ug/L		82	43 - 163	3	20
Vinyl chloride			25.0	22.5		ug/L		90	54 - 135	3	20
m-Xylene & p-Xylene			25.0	23.8		ug/L		95	70 - 142	0	20
o-Xylene			25.0	23.9		ug/L		95	70 - 130	1	20
2,2-Dichloropropane			25.0	29.6		ug/L		118	70 - 140	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*72 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 720-183600/9
Matrix: Water
Analysis Batch: 183600

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	538		ug/L		108	62 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-183510/4
Matrix: Water
Analysis Batch: 183510

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			06/12/15 09:31	1
Fluoride	ND		1.0		mg/L			06/12/15 09:31	1
Chloride	ND		1.0		mg/L			06/12/15 09:31	1
Bromide	ND		1.0		mg/L			06/12/15 09:31	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 720-183510/5
Matrix: Water
Analysis Batch: 183510

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	9.88		mg/L		99	90 - 110
Fluoride	10.0	9.68		mg/L		97	90 - 110
Chloride	10.0	9.45		mg/L		95	90 - 110
Bromide	10.0	9.73		mg/L		97	90 - 110

Lab Sample ID: MB 720-183511/4
Matrix: Water
Analysis Batch: 183511

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			06/12/15 09:31	1
Nitrate as NO3	ND		1.0		mg/L			06/12/15 09:31	1

Lab Sample ID: LCS 720-183511/5
Matrix: Water
Analysis Batch: 183511

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	9.57		mg/L		96	90 - 110
Nitrate as NO3	10.0	9.57		mg/L		96	90 - 110

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-183715/1-A
Matrix: Water
Analysis Batch: 183812

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.020		mg/L		06/16/15 14:32	06/17/15 15:49	1
Potassium	ND		1.0		mg/L		06/16/15 14:32	06/17/15 15:49	1

Lab Sample ID: LCS 720-183715/2-A
Matrix: Water
Analysis Batch: 183812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	1.00	1.02		mg/L		102	85 - 115
Potassium	10.0	8.88		mg/L		89	85 - 115

Lab Sample ID: LCSD 720-183715/3-A
Matrix: Water
Analysis Batch: 183812

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183715

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	1.00	1.06		mg/L		106	85 - 115	4	20
Potassium	10.0	9.67		mg/L		97	85 - 115	8	20

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 720-65451-4 MS
Matrix: Water
Analysis Batch: 183812

Client Sample ID: MW-13
Prep Type: Total/NA
Prep Batch: 183715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	1.8		1.00	2.67		mg/L		88	85 - 115
Potassium	7.4		10.0	16.4		mg/L		91	85 - 115

Lab Sample ID: 720-65451-4 MSD
Matrix: Water
Analysis Batch: 183812

Client Sample ID: MW-13
Prep Type: Total/NA
Prep Batch: 183715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	1.8		1.00	2.67		mg/L		88	85 - 115	0	20
Potassium	7.4		10.0	16.5		mg/L		91	85 - 115	0	20

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 720-183516/8
Matrix: Water
Analysis Batch: 183516

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			06/12/15 11:00	1

Lab Sample ID: LCS 720-183516/9
Matrix: Water
Analysis Batch: 183516

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	1.00	0.962		mg/L		96	80 - 120

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-292148/1-A
Matrix: Water
Analysis Batch: 292185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 292148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		06/16/15 16:25	06/16/15 18:53	1

Lab Sample ID: LCS 500-292148/2-A
Matrix: Water
Analysis Batch: 292185

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 292148

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

Lab Sample ID: 720-65451-6 MS
Matrix: Water
Analysis Batch: 292185

Client Sample ID: MW-16
Prep Type: Total/NA
Prep Batch: 292148

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND		2.50	2.48		mg/L		97	75 - 125

Method: SM 4500 NH3 G - Ammonia (Continued)

Lab Sample ID: 720-65451-6 MSD
Matrix: Water
Analysis Batch: 292185

Client Sample ID: MW-16
Prep Type: Total/NA
Prep Batch: 292148

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND		2.50	2.39		mg/L		93	75 - 125	4	20

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 720-183575/7
Matrix: Water
Analysis Batch: 183575

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			06/12/15 22:37	1

Lab Sample ID: LCS 720-183575/8
Matrix: Water
Analysis Batch: 183575

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	0.206		mg/L		103	90 - 110

GC/MS VOA

Analysis Batch: 183592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65451-1	MW-12	Total/NA	Water	8260B/CA_LUFT MS	
720-65451-2	MW-11R	Total/NA	Water	8260B/CA_LUFT MS	
720-65451-3	MW-14	Total/NA	Water	8260B/CA_LUFT MS	
720-65451-4	MW-13	Total/NA	Water	8260B/CA_LUFT MS	
720-65451-5	MW-15	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-183592/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-183592/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-183592/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-183592/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-183592/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 183600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65451-6	MW-16	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-183600/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-183600/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-183600/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-183600/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-183600/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

HPLC/IC

Analysis Batch: 183510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65451-1	MW-12	Total/NA	Water	300.0	
720-65451-2	MW-11R	Total/NA	Water	300.0	
720-65451-3	MW-14	Total/NA	Water	300.0	
720-65451-4	MW-13	Total/NA	Water	300.0	
720-65451-5	MW-15	Total/NA	Water	300.0	
720-65451-5	MW-15	Total/NA	Water	300.0	
720-65451-6	MW-16	Total/NA	Water	300.0	
720-65451-6	MW-16	Total/NA	Water	300.0	
LCS 720-183510/5	Lab Control Sample	Total/NA	Water	300.0	
MB 720-183510/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 183511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65451-1	MW-12	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 183511 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65451-2	MW-11R	Total/NA	Water	300.0	
720-65451-3	MW-14	Total/NA	Water	300.0	
720-65451-4	MW-13	Total/NA	Water	300.0	
720-65451-5	MW-15	Total/NA	Water	300.0	
720-65451-6	MW-16	Total/NA	Water	300.0	
LCS 720-183511/5	Lab Control Sample	Total/NA	Water	300.0	
MB 720-183511/4	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 183715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65451-1	MW-12	Total/NA	Water	200.7	
720-65451-2	MW-11R	Total/NA	Water	200.7	
720-65451-3	MW-14	Total/NA	Water	200.7	
720-65451-4	MW-13	Total/NA	Water	200.7	
720-65451-4 MS	MW-13	Total/NA	Water	200.7	
720-65451-4 MSD	MW-13	Total/NA	Water	200.7	
720-65451-5	MW-15	Total/NA	Water	200.7	
720-65451-6	MW-16	Total/NA	Water	200.7	
LCS 720-183715/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 720-183715/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
MB 720-183715/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 183812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65451-1	MW-12	Total/NA	Water	200.7 Rev 4.4	183715
720-65451-2	MW-11R	Total/NA	Water	200.7 Rev 4.4	183715
720-65451-3	MW-14	Total/NA	Water	200.7 Rev 4.4	183715
720-65451-4	MW-13	Total/NA	Water	200.7 Rev 4.4	183715
720-65451-4 MS	MW-13	Total/NA	Water	200.7 Rev 4.4	183715
720-65451-4 MSD	MW-13	Total/NA	Water	200.7 Rev 4.4	183715
720-65451-5	MW-15	Total/NA	Water	200.7 Rev 4.4	183715
720-65451-6	MW-16	Total/NA	Water	200.7 Rev 4.4	183715
LCS 720-183715/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	183715
LCSD 720-183715/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	183715
MB 720-183715/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	183715

General Chemistry

Analysis Batch: 183516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65451-1	MW-12	Total/NA	Water	SM 3500 FE D	
720-65451-2	MW-11R	Total/NA	Water	SM 3500 FE D	
720-65451-3	MW-14	Total/NA	Water	SM 3500 FE D	
720-65451-4	MW-13	Total/NA	Water	SM 3500 FE D	
720-65451-5	MW-15	Total/NA	Water	SM 3500 FE D	
720-65451-6	MW-16	Total/NA	Water	SM 3500 FE D	
720-65451-7	MW-5R	Total/NA	Water	SM 3500 FE D	
LCS 720-183516/9	Lab Control Sample	Total/NA	Water	SM 3500 FE D	

General Chemistry (Continued)

Analysis Batch: 183516 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-183516/8	Method Blank	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 183575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65451-1	MW-12	Total/NA	Water	SM 4500 P E	
720-65451-2	MW-11R	Total/NA	Water	SM 4500 P E	
720-65451-3	MW-14	Total/NA	Water	SM 4500 P E	
720-65451-4	MW-13	Total/NA	Water	SM 4500 P E	
720-65451-5	MW-15	Total/NA	Water	SM 4500 P E	
720-65451-6	MW-16	Total/NA	Water	SM 4500 P E	
LCS 720-183575/8	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 720-183575/7	Method Blank	Total/NA	Water	SM 4500 P E	

Analysis Batch: 183806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65451-1	MW-12	Total/NA	Water	SM 3500 FE D	
720-65451-2	MW-11R	Total/NA	Water	SM 3500 FE D	
720-65451-3	MW-14	Total/NA	Water	SM 3500 FE D	
720-65451-4	MW-13	Total/NA	Water	SM 3500 FE D	
720-65451-5	MW-15	Total/NA	Water	SM 3500 FE D	
720-65451-6	MW-16	Total/NA	Water	SM 3500 FE D	
720-65451-7	MW-5R	Total/NA	Water	SM 3500 FE D	

Prep Batch: 292148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65451-1	MW-12	Total/NA	Water	SM 4500 NH3 B	
720-65451-2	MW-11R	Total/NA	Water	SM 4500 NH3 B	
720-65451-3	MW-14	Total/NA	Water	SM 4500 NH3 B	
720-65451-4	MW-13	Total/NA	Water	SM 4500 NH3 B	
720-65451-5	MW-15	Total/NA	Water	SM 4500 NH3 B	
720-65451-6	MW-16	Total/NA	Water	SM 4500 NH3 B	
720-65451-6 MS	MW-16	Total/NA	Water	SM 4500 NH3 B	
720-65451-6 MSD	MW-16	Total/NA	Water	SM 4500 NH3 B	
LCS 500-292148/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
MB 500-292148/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 292185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65451-1	MW-12	Total/NA	Water	SM 4500 NH3 G	292148
720-65451-2	MW-11R	Total/NA	Water	SM 4500 NH3 G	292148
720-65451-3	MW-14	Total/NA	Water	SM 4500 NH3 G	292148
720-65451-4	MW-13	Total/NA	Water	SM 4500 NH3 G	292148
720-65451-5	MW-15	Total/NA	Water	SM 4500 NH3 G	292148
720-65451-6	MW-16	Total/NA	Water	SM 4500 NH3 G	292148
720-65451-6 MS	MW-16	Total/NA	Water	SM 4500 NH3 G	292148
720-65451-6 MSD	MW-16	Total/NA	Water	SM 4500 NH3 G	292148
LCS 500-292148/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	292148
MB 500-292148/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	292148

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

Client Sample ID: MW-12

Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	183592	06/15/15 17:43	ASC	TAL PLS
Total/NA	Analysis	300.0		1	183510	06/12/15 17:50	MJK	TAL PLS
Total/NA	Analysis	300.0		1	183511	06/12/15 17:50	MJK	TAL PLS
Total/NA	Prep	200.7			183715	06/16/15 14:32	ECT	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	183812	06/17/15 17:04	SLK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183516	06/12/15 18:09	MJK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183806	06/17/15 16:37	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			292148	06/16/15 16:25	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	292185	06/16/15 19:05	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	183575	06/12/15 22:37	EYT	TAL PLS

Client Sample ID: MW-11R

Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-2
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	183592	06/15/15 18:13	ASC	TAL PLS
Total/NA	Analysis	300.0		1	183510	06/12/15 18:24	MJK	TAL PLS
Total/NA	Analysis	300.0		1	183511	06/12/15 18:24	MJK	TAL PLS
Total/NA	Prep	200.7			183715	06/16/15 14:32	ECT	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	183812	06/17/15 17:09	SLK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183516	06/12/15 18:09	MJK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183806	06/17/15 16:37	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			292148	06/16/15 16:25	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	292185	06/16/15 19:07	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	183575	06/12/15 22:37	EYT	TAL PLS

Client Sample ID: MW-14

Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		50	183592	06/15/15 18:44	ASC	TAL PLS
Total/NA	Analysis	300.0		1	183510	06/12/15 18:58	MJK	TAL PLS
Total/NA	Analysis	300.0		1	183511	06/12/15 18:58	MJK	TAL PLS
Total/NA	Prep	200.7			183715	06/16/15 14:32	ECT	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	183812	06/17/15 17:14	SLK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		5	183516	06/12/15 18:09	MJK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183806	06/17/15 16:37	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			292148	06/16/15 16:25	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	292185	06/16/15 19:10	HMW	TAL CHI

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

Client Sample ID: MW-14
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 P E		1	183575	06/12/15 22:37	EYT	TAL PLS

Client Sample ID: MW-13
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	183592	06/15/15 19:15	ASC	TAL PLS
Total/NA	Analysis	300.0		1	183510	06/12/15 19:32	MJK	TAL PLS
Total/NA	Analysis	300.0		1	183511	06/12/15 19:32	MJK	TAL PLS
Total/NA	Prep	200.7			183715	06/16/15 14:32	ECT	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	183812	06/17/15 17:29	SLK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183516	06/12/15 18:09	MJK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183806	06/17/15 16:37	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			292148	06/16/15 16:25	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	292185	06/16/15 19:13	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	183575	06/12/15 22:37	EYT	TAL PLS

Client Sample ID: MW-15
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-5
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	183592	06/15/15 19:45	ASC	TAL PLS
Total/NA	Analysis	300.0		1	183510	06/12/15 20:06	MJK	TAL PLS
Total/NA	Analysis	300.0		1	183511	06/12/15 20:06	MJK	TAL PLS
Total/NA	Analysis	300.0		10	183510	06/12/15 20:23	MJK	TAL PLS
Total/NA	Prep	200.7			183715	06/16/15 14:32	ECT	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	183812	06/17/15 17:34	SLK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183516	06/12/15 18:09	MJK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183806	06/17/15 16:37	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			292148	06/16/15 16:25	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	292185	06/16/15 19:16	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	183575	06/12/15 22:37	EYT	TAL PLS

Client Sample ID: MW-16
Date Collected: 06/12/15 00:00
Date Received: 06/12/15 16:38

Lab Sample ID: 720-65451-6
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	183600	06/16/15 01:07	ASC	TAL PLS

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

Client Sample ID: MW-16

Lab Sample ID: 720-65451-6

Date Collected: 06/12/15 00:00

Matrix: Water

Date Received: 06/12/15 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	183510	06/12/15 21:15	MJK	TAL PLS
Total/NA	Analysis	300.0		1	183511	06/12/15 21:15	MJK	TAL PLS
Total/NA	Analysis	300.0		10	183510	06/12/15 21:32	MJK	TAL PLS
Total/NA	Prep	200.7			183715	06/16/15 15:01	ECT	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	183812	06/17/15 17:49	SLK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183516	06/12/15 18:09	MJK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183806	06/17/15 16:37	MJK	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			292148	06/16/15 16:25	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	292185	06/16/15 19:19	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	183575	06/12/15 22:37	EYT	TAL PLS

Client Sample ID: MW-5R

Lab Sample ID: 720-65451-7

Date Collected: 06/12/15 00:00

Matrix: Water

Date Received: 06/12/15 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 3500 FE D		1	183516	06/12/15 18:09	MJK	TAL PLS
Total/NA	Analysis	SM 3500 FE D		1	183806	06/17/15 16:38	MJK	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: 720-65451-1

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	01-31-16

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	06-30-15 *
Kentucky (UST)	State Program	4	66	04-30-16
Kentucky (WW)	State Program	4	KY90023	12-31-15
Massachusetts	State Program	1	M-IL035	06-30-15 *
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	12-31-15
North Dakota	State Program	8	R-194	04-30-16
Oklahoma	State Program	6	8908	08-31-15
South Carolina	State Program	4	77001	04-30-15 *
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-15
Wyoming	State Program	8	8TMS-Q	05-31-15 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65451-1

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 FE D	Iron, Ferrous and Ferric	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: 720-65451-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-65451-1	MW-12	Water	06/12/15 00:00	06/12/15 16:38
720-65451-2	MW-11R	Water	06/12/15 00:00	06/12/15 16:38
720-65451-3	MW-14	Water	06/12/15 00:00	06/12/15 16:38
720-65451-4	MW-13	Water	06/12/15 00:00	06/12/15 16:38
720-65451-5	MW-15	Water	06/12/15 00:00	06/12/15 16:38
720-65451-6	MW-16	Water	06/12/15 00:00	06/12/15 16:38
720-65451-7	MW-5R	Water	06/12/15 00:00	06/12/15 16:38

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-65451

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

Reference #: 161787

Date 6/12 Page 1 of 1

6/18/2015

Report To

Attn: Peter Sims
Company: Ninyo and Moore
Address:
Email: psims@ninyoandmoore.com
Bill To: Jane
Sampled By: Emily Dirksen
Attn:
Phone:

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): 200.8 molybdenum & 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	ammonia as NH3	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Iron II SM 3500 FE	Iron III by calc	Number of Containers
MW-12	6/12		H2O		✓										✓				✓			✓	✓	6
MW-11R					✓										✓				✓			✓	✓	6
MW-14					✓										✓				✓			✓	✓	6
MW-13					✓										✓				✓			✓	✓	6
MW-15					✓										✓				✓			✓	✓	6
MW-16					✓										✓				✓			✓	✓	6
MW-5R					✓																	✓	✓	6

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Project Info.

Project Name/ #: Chun 4018960004
PO#:
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp: 2.9 °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:
Signature — Time: 1535
Printed Name: Emily Dirksen — Date: 6/12
Company: ninyo & moore

2) Relinquished by:
Signature: Victor Romo — Time: 16:38
Printed Name: Victor Romo — Date: 6/12/15
Company: TA

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

1) Received by:
Signature: Victor Romo — Time: 15:39
Printed Name: Victor Romo — Date: 6/12/15
Company: TA

2) Received by:
Signature — Time: 16:38
Printed Name: J Gonzales — Date: 6/12/15
Company: TA

720-65451 Chain of Custody

Signature — Time
Printed Name — Date
Company

Rev.10/2012

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-65451-1

Login Number: 65451
List Number: 1
Creator: Gonzales, Justinn

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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	SAMPLE TIMES NOT PROVIDED
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: 720-65451-1

Login Number: 65451
List Number: 2
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago
List Creation: 06/16/15 10:52 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	-0.3
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.	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

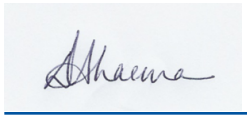
ANALYTICAL REPORT

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

TestAmerica Job ID: 720-64997-1
Client Project/Site: Chun

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

Attn: Mr. Peter D. Sims



Authorized for release by:
5/29/2015 9:33:51 AM

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

Table of Contents

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: 720-64997-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-64997-1

Comments
No additional comments.

Receipt
The samples were received on 5/22/2015 12:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.2º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed.

Project name is not on the COC.

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: 720-64997-1

Client Sample ID: EFF — Lab Sample ID: 720-64997-1

No Detections.

Client Sample ID: INF — Lab Sample ID: 720-64997-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.67		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	0.57		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Chloroform	1.7		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	1.6		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	17		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	25		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	370		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFF
Date Collected: 05/21/15 15:42
Date Received: 05/22/15 12:45

Lab Sample ID: 720-64997-1
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			05/26/15 23:14	1
Acetone	ND		50		ug/L			05/26/15 23:14	1
Benzene	ND		0.50		ug/L			05/26/15 23:14	1
Dichlorobromomethane	ND		0.50		ug/L			05/26/15 23:14	1
Bromobenzene	ND		1.0		ug/L			05/26/15 23:14	1
Chlorobromomethane	ND		1.0		ug/L			05/26/15 23:14	1
Bromoform	ND		1.0		ug/L			05/26/15 23:14	1
Bromomethane	ND		1.0		ug/L			05/26/15 23:14	1
2-Butanone (MEK)	ND		50		ug/L			05/26/15 23:14	1
n-Butylbenzene	ND		1.0		ug/L			05/26/15 23:14	1
sec-Butylbenzene	ND		1.0		ug/L			05/26/15 23:14	1
tert-Butylbenzene	ND		1.0		ug/L			05/26/15 23:14	1
Carbon disulfide	ND		5.0		ug/L			05/26/15 23:14	1
Carbon tetrachloride	ND		0.50		ug/L			05/26/15 23:14	1
Chlorobenzene	ND		0.50		ug/L			05/26/15 23:14	1
Chloroethane	ND		1.0		ug/L			05/26/15 23:14	1
Chloroform	ND		1.0		ug/L			05/26/15 23:14	1
Chloromethane	ND		1.0		ug/L			05/26/15 23:14	1
2-Chlorotoluene	ND		0.50		ug/L			05/26/15 23:14	1
4-Chlorotoluene	ND		0.50		ug/L			05/26/15 23:14	1
Chlorodibromomethane	ND		0.50		ug/L			05/26/15 23:14	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/26/15 23:14	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/26/15 23:14	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/26/15 23:14	1
1,3-Dichloropropane	ND		1.0		ug/L			05/26/15 23:14	1
1,1-Dichloropropene	ND		0.50		ug/L			05/26/15 23:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/26/15 23:14	1
Ethylene Dibromide	ND		0.50		ug/L			05/26/15 23:14	1
Dibromomethane	ND		0.50		ug/L			05/26/15 23:14	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/26/15 23:14	1
1,1-Dichloroethane	ND		0.50		ug/L			05/26/15 23:14	1
1,2-Dichloroethane	ND		0.50		ug/L			05/26/15 23:14	1
1,1-Dichloroethene	ND		0.50		ug/L			05/26/15 23:14	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/26/15 23:14	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/26/15 23:14	1
1,2-Dichloropropane	ND		0.50		ug/L			05/26/15 23:14	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/26/15 23:14	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/26/15 23:14	1
Ethylbenzene	ND		0.50		ug/L			05/26/15 23:14	1
Hexachlorobutadiene	ND		1.0		ug/L			05/26/15 23:14	1
2-Hexanone	ND		50		ug/L			05/26/15 23:14	1
Isopropylbenzene	ND		0.50		ug/L			05/26/15 23:14	1
4-Isopropyltoluene	ND		1.0		ug/L			05/26/15 23:14	1
Methylene Chloride	ND		5.0		ug/L			05/26/15 23:14	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/26/15 23:14	1
Naphthalene	ND		1.0		ug/L			05/26/15 23:14	1
N-Propylbenzene	ND		1.0		ug/L			05/26/15 23:14	1
Styrene	ND		0.50		ug/L			05/26/15 23:14	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/26/15 23:14	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-64997-1

Client Sample ID: EFF
Date Collected: 05/21/15 15:42
Date Received: 05/22/15 12:45

Lab Sample ID: 720-64997-1
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			05/26/15 23:14	1
Tetrachloroethene	ND		0.50		ug/L			05/26/15 23:14	1
Toluene	ND		0.50		ug/L			05/26/15 23:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/26/15 23:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/26/15 23:14	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/26/15 23:14	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/26/15 23:14	1
Trichloroethene	ND		0.50		ug/L			05/26/15 23:14	1
Trichlorofluoromethane	ND		1.0		ug/L			05/26/15 23:14	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/26/15 23:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/26/15 23:14	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/26/15 23:14	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/26/15 23:14	1
Vinyl acetate	ND		10		ug/L			05/26/15 23:14	1
Vinyl chloride	ND		0.50		ug/L			05/26/15 23:14	1
Xylenes, Total	ND		1.0		ug/L			05/26/15 23:14	1
2,2-Dichloropropane	ND		0.50		ug/L			05/26/15 23:14	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/26/15 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*05/26/15 23:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*72 - 130*		*05/26/15 23:14*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/26/15 23:14*	*1*

Client Sample ID: INF
Date Collected: 05/21/15 15:44
Date Received: 05/22/15 12:45

Lab Sample ID: 720-64997-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.67**		0.50		ug/L			05/27/15 00:38	1
Acetone	ND		50		ug/L			05/27/15 00:38	1
Benzene	**0.57**		0.50		ug/L			05/27/15 00:38	1
Dichlorobromomethane	ND		0.50		ug/L			05/27/15 00:38	1
Bromobenzene	ND		1.0		ug/L			05/27/15 00:38	1
Chlorobromomethane	ND		1.0		ug/L			05/27/15 00:38	1
Bromoform	ND		1.0		ug/L			05/27/15 00:38	1
Bromomethane	ND		1.0		ug/L			05/27/15 00:38	1
2-Butanone (MEK)	ND		50		ug/L			05/27/15 00:38	1
n-Butylbenzene	ND		1.0		ug/L			05/27/15 00:38	1
sec-Butylbenzene	ND		1.0		ug/L			05/27/15 00:38	1
tert-Butylbenzene	ND		1.0		ug/L			05/27/15 00:38	1
Carbon disulfide	ND		5.0		ug/L			05/27/15 00:38	1
Carbon tetrachloride	ND		0.50		ug/L			05/27/15 00:38	1
Chlorobenzene	ND		0.50		ug/L			05/27/15 00:38	1
Chloroethane	ND		1.0		ug/L			05/27/15 00:38	1
Chloroform	**1.7**		1.0		ug/L			05/27/15 00:38	1
Chloromethane	ND		1.0		ug/L			05/27/15 00:38	1
2-Chlorotoluene	ND		0.50		ug/L			05/27/15 00:38	1
4-Chlorotoluene	ND		0.50		ug/L			05/27/15 00:38	1
Chlorodibromomethane	ND		0.50		ug/L			05/27/15 00:38	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/27/15 00:38	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/27/15 00:38	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/27/15 00:38	1
1,3-Dichloropropane	ND		1.0		ug/L			05/27/15 00:38	1
1,1-Dichloropropene	ND		0.50		ug/L			05/27/15 00:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/27/15 00:38	1
Ethylene Dibromide	ND		0.50		ug/L			05/27/15 00:38	1
Dibromomethane	ND		0.50		ug/L			05/27/15 00:38	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/27/15 00:38	1
1,1-Dichloroethane	ND		0.50		ug/L			05/27/15 00:38	1
1,2-Dichloroethane	ND		0.50		ug/L			05/27/15 00:38	1
1,1-Dichloroethene	ND		0.50		ug/L			05/27/15 00:38	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/27/15 00:38	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/27/15 00:38	1
1,2-Dichloropropane	ND		0.50		ug/L			05/27/15 00:38	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/27/15 00:38	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/27/15 00:38	1
Ethylbenzene	ND		0.50		ug/L			05/27/15 00:38	1
Hexachlorobutadiene	ND		1.0		ug/L			05/27/15 00:38	1
2-Hexanone	ND		50		ug/L			05/27/15 00:38	1
Isopropylbenzene	ND		0.50		ug/L			05/27/15 00:38	1
4-Isopropyltoluene	ND		1.0		ug/L			05/27/15 00:38	1
Methylene Chloride	ND		5.0		ug/L			05/27/15 00:38	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/27/15 00:38	1
Naphthalene	**1.6**		1.0		ug/L			05/27/15 00:38	1
N-Propylbenzene	ND		1.0		ug/L			05/27/15 00:38	1
Styrene	ND		0.50		ug/L			05/27/15 00:38	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/27/15 00:38	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-64997-1

Client Sample ID: INF
Date Collected: 05/21/15 15:44
Date Received: 05/22/15 12:45

Lab Sample ID: 720-64997-2
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			05/27/15 00:38	1
Tetrachloroethene	ND		0.50		ug/L			05/27/15 00:38	1
Toluene	ND		0.50		ug/L			05/27/15 00:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/27/15 00:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/27/15 00:38	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/27/15 00:38	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/27/15 00:38	1
Trichloroethene	ND		0.50		ug/L			05/27/15 00:38	1
Trichlorofluoromethane	ND		1.0		ug/L			05/27/15 00:38	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/27/15 00:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/27/15 00:38	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/27/15 00:38	1
1,3,5-Trimethylbenzene	**17**		0.50		ug/L			05/27/15 00:38	1
Vinyl acetate	ND		10		ug/L			05/27/15 00:38	1
Vinyl chloride	ND		0.50		ug/L			05/27/15 00:38	1
Xylenes, Total	**25**		1.0		ug/L			05/27/15 00:38	1
2,2-Dichloropropane	ND		0.50		ug/L			05/27/15 00:38	1
Gasoline Range Organics (GRO) -C5-C12	**370**		50		ug/L			05/27/15 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*		*05/27/15 00:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*72 - 130*		*05/27/15 00:38*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/27/15 00:38*	*1*

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-64997-1

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)
720-64997-1	EFF	101	108	102
720-64997-1 MS	EFF	100	105	102
720-64997-1 MSD	EFF	100	103	101
720-64997-2	INF	104	108	103
LCS 720-182360/6	Lab Control Sample	100	104	102
LCS 720-182360/8	Lab Control Sample	104	106	103
LCSD 720-182360/7	Lab Control Sample Dup	103	103	102
LCSD 720-182360/9	Lab Control Sample Dup	104	107	103
MB 720-182360/5	Method Blank	103	111	102

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 720-182360/5
Matrix: Water
Analysis Batch: 182360

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			05/26/15 19:29	1
Acetone	ND		50		ug/L			05/26/15 19:29	1
Benzene	ND		0.50		ug/L			05/26/15 19:29	1
Dichlorobromomethane	ND		0.50		ug/L			05/26/15 19:29	1
Bromobenzene	ND		1.0		ug/L			05/26/15 19:29	1
Chlorobromomethane	ND		1.0		ug/L			05/26/15 19:29	1
Bromoform	ND		1.0		ug/L			05/26/15 19:29	1
Bromomethane	ND		1.0		ug/L			05/26/15 19:29	1
2-Butanone (MEK)	ND		50		ug/L			05/26/15 19:29	1
n-Butylbenzene	ND		1.0		ug/L			05/26/15 19:29	1
sec-Butylbenzene	ND		1.0		ug/L			05/26/15 19:29	1
tert-Butylbenzene	ND		1.0		ug/L			05/26/15 19:29	1
Carbon disulfide	ND		5.0		ug/L			05/26/15 19:29	1
Carbon tetrachloride	ND		0.50		ug/L			05/26/15 19:29	1
Chlorobenzene	ND		0.50		ug/L			05/26/15 19:29	1
Chloroethane	ND		1.0		ug/L			05/26/15 19:29	1
Chloroform	ND		1.0		ug/L			05/26/15 19:29	1
Chloromethane	ND		1.0		ug/L			05/26/15 19:29	1
2-Chlorotoluene	ND		0.50		ug/L			05/26/15 19:29	1
4-Chlorotoluene	ND		0.50		ug/L			05/26/15 19:29	1
Chlorodibromomethane	ND		0.50		ug/L			05/26/15 19:29	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/26/15 19:29	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/26/15 19:29	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/26/15 19:29	1
1,3-Dichloropropane	ND		1.0		ug/L			05/26/15 19:29	1
1,1-Dichloropropene	ND		0.50		ug/L			05/26/15 19:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/26/15 19:29	1
Ethylene Dibromide	ND		0.50		ug/L			05/26/15 19:29	1
Dibromomethane	ND		0.50		ug/L			05/26/15 19:29	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/26/15 19:29	1
1,1-Dichloroethane	ND		0.50		ug/L			05/26/15 19:29	1
1,2-Dichloroethane	ND		0.50		ug/L			05/26/15 19:29	1
1,1-Dichloroethene	ND		0.50		ug/L			05/26/15 19:29	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/26/15 19:29	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/26/15 19:29	1
1,2-Dichloropropane	ND		0.50		ug/L			05/26/15 19:29	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/26/15 19:29	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/26/15 19:29	1
Ethylbenzene	ND		0.50		ug/L			05/26/15 19:29	1
Hexachlorobutadiene	ND		1.0		ug/L			05/26/15 19:29	1
2-Hexanone	ND		50		ug/L			05/26/15 19:29	1
Isopropylbenzene	ND		0.50		ug/L			05/26/15 19:29	1
4-Isopropyltoluene	ND		1.0		ug/L			05/26/15 19:29	1
Methylene Chloride	ND		5.0		ug/L			05/26/15 19:29	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/26/15 19:29	1
Naphthalene	ND		1.0		ug/L			05/26/15 19:29	1
N-Propylbenzene	ND		1.0		ug/L			05/26/15 19:29	1
Styrene	ND		0.50		ug/L			05/26/15 19:29	1

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

Lab Sample ID: MB 720-182360/5
Matrix: Water
Analysis Batch: 182360

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			05/26/15 19:29	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/26/15 19:29	1
Tetrachloroethene	ND		0.50		ug/L			05/26/15 19:29	1
Toluene	ND		0.50		ug/L			05/26/15 19:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/26/15 19:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/26/15 19:29	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/26/15 19:29	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/26/15 19:29	1
Trichloroethene	ND		0.50		ug/L			05/26/15 19:29	1
Trichlorofluoromethane	ND		1.0		ug/L			05/26/15 19:29	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/26/15 19:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/26/15 19:29	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/26/15 19:29	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/26/15 19:29	1
Vinyl acetate	ND		10		ug/L			05/26/15 19:29	1
Vinyl chloride	ND		0.50		ug/L			05/26/15 19:29	1
Xylenes, Total	ND		1.0		ug/L			05/26/15 19:29	1
2,2-Dichloropropane	ND		0.50		ug/L			05/26/15 19:29	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/26/15 19:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*		*05/26/15 19:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 130*		*05/26/15 19:29*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/26/15 19:29*	*1*

Lab Sample ID: LCS 720-182360/6
Matrix: Water
Analysis Batch: 182360

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	125	123		ug/L		98	26 - 180
Benzene	25.0	26.0		ug/L		104	79 - 130
Dichlorobromomethane	25.0	27.0		ug/L		108	70 - 130
Bromobenzene	25.0	26.8		ug/L		107	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	25.0		ug/L		100	43 - 151
2-Butanone (MEK)	125	129		ug/L		103	54 - 130
n-Butylbenzene	25.0	27.2		ug/L		109	70 - 142
sec-Butylbenzene	25.0	28.0		ug/L		112	70 - 134
tert-Butylbenzene	25.0	27.8		ug/L		111	70 - 135
Carbon disulfide	25.0	24.4		ug/L		97	58 - 130
Carbon tetrachloride	25.0	29.8		ug/L		119	70 - 146
Chlorobenzene	25.0	25.9		ug/L		104	70 - 130
Chloroethane	25.0	25.8		ug/L		103	62 - 138
Chloroform	25.0	26.5		ug/L		106	70 - 130

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

Lab Sample ID: LCS 720-182360/6
Matrix: Water
Analysis Batch: 182360

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	24.4		ug/L		98	52 - 175
2-Chlorotoluene	25.0	27.3		ug/L		109	70 - 130
4-Chlorotoluene	25.0	27.0		ug/L		108	70 - 130
Chlorodibromomethane	25.0	27.8		ug/L		111	70 - 145
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,3-Dichloropropane	25.0	25.9		ug/L		104	70 - 130
1,1-Dichloropropene	25.0	28.8		ug/L		115	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.5		ug/L		102	70 - 136
Ethylene Dibromide	25.0	25.9		ug/L		104	70 - 130
Dibromomethane	25.0	26.4		ug/L		106	70 - 130
Dichlorodifluoromethane	25.0	20.6		ug/L		82	34 - 132
1,1-Dichloroethane	25.0	26.7		ug/L		107	70 - 130
1,2-Dichloroethane	25.0	26.7		ug/L		107	61 - 132
1,1-Dichloroethene	25.0	21.7		ug/L		87	64 - 128
cis-1,2-Dichloroethene	25.0	26.5		ug/L		106	70 - 130
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	68 - 130
1,2-Dichloropropane	25.0	26.4		ug/L		106	70 - 130
cis-1,3-Dichloropropene	25.0	26.8		ug/L		107	70 - 130
trans-1,3-Dichloropropene	25.0	28.8		ug/L		115	70 - 140
Ethylbenzene	25.0	26.5		ug/L		106	80 - 120
Hexachlorobutadiene	25.0	26.9		ug/L		108	70 - 130
2-Hexanone	125	128		ug/L		102	60 - 164
Isopropylbenzene	25.0	26.9		ug/L		107	70 - 130
4-Isopropyltoluene	25.0	27.2		ug/L		109	70 - 130
Methylene Chloride	25.0	24.0		ug/L		96	70 - 147
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	58 - 130
Naphthalene	25.0	25.7		ug/L		103	70 - 130
N-Propylbenzene	25.0	28.0		ug/L		112	70 - 130
Styrene	25.0	24.5		ug/L		98	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.6		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	25.0	27.1		ug/L		108	70 - 130
Tetrachloroethene	25.0	26.5		ug/L		106	70 - 130
Toluene	25.0	26.4		ug/L		106	78 - 120
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,1,1-Trichloroethane	25.0	27.7		ug/L		111	70 - 130
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	70 - 130
Trichloroethene	25.0	26.6		ug/L		107	70 - 130
Trichlorofluoromethane	25.0	25.6		ug/L		102	66 - 132
1,2,3-Trichloropropane	25.0	28.3		ug/L		113	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.7		ug/L		95	42 - 162
1,2,4-Trimethylbenzene	25.0	26.8		ug/L		107	70 - 132
1,3,5-Trimethylbenzene	25.0	27.7		ug/L		111	70 - 130
Vinyl acetate	25.0	29.2		ug/L		117	43 - 163
Vinyl chloride	25.0	24.4		ug/L		98	54 - 135

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

Lab Sample ID: LCS 720-182360/6
Matrix: Water
Analysis Batch: 182360

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	26.3		ug/L		105	70 - 142
o-Xylene	25.0	26.4		ug/L		106	70 - 130
2,2-Dichloropropane	25.0	31.3		ug/L		125	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCS 720-182360/8
Matrix: Water
Analysis Batch: 182360

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	531		ug/L		106	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 720-182360/7
Matrix: Water
Analysis Batch: 182360

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	25.7		ug/L		103	62 - 130	1	20
Acetone	125	129		ug/L		103	26 - 180	5	30
Benzene	25.0	25.8		ug/L		103	79 - 130	1	20
Dichlorobromomethane	25.0	26.9		ug/L		108	70 - 130	0	20
Bromobenzene	25.0	26.0		ug/L		104	70 - 130	3	20
Chlorobromomethane	25.0	25.6		ug/L		102	70 - 130	1	20
Bromoform	25.0	28.5		ug/L		114	68 - 136	3	20
Bromomethane	25.0	25.4		ug/L		102	43 - 151	1	20
2-Butanone (MEK)	125	129		ug/L		103	54 - 130	0	20
n-Butylbenzene	25.0	26.6		ug/L		107	70 - 142	2	20
sec-Butylbenzene	25.0	27.2		ug/L		109	70 - 134	3	20
tert-Butylbenzene	25.0	27.1		ug/L		109	70 - 135	2	20
Carbon disulfide	25.0	24.5		ug/L		98	58 - 130	0	20
Carbon tetrachloride	25.0	29.8		ug/L		119	70 - 146	0	20
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130	1	20
Chloroethane	25.0	26.2		ug/L		105	62 - 138	1	20
Chloroform	25.0	26.0		ug/L		104	70 - 130	2	20
Chloromethane	25.0	24.2		ug/L		97	52 - 175	1	20
2-Chlorotoluene	25.0	26.4		ug/L		105	70 - 130	3	20
4-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130	4	20
Chlorodibromomethane	25.0	28.1		ug/L		112	70 - 145	1	20

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

Lab Sample ID: LCSD 720-182360/7
Matrix: Water
Analysis Batch: 182360

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene			25.0	26.0		ug/L		104	70 - 130	1	20
1,3-Dichlorobenzene			25.0	25.5		ug/L		102	70 - 130	2	20
1,4-Dichlorobenzene			25.0	24.9		ug/L		99	70 - 130	2	20
1,3-Dichloropropane			25.0	25.6		ug/L		103	70 - 130	1	20
1,1-Dichloropropene			25.0	28.6		ug/L		114	70 - 130	1	20
1,2-Dibromo-3-Chloropropane			25.0	25.3		ug/L		101	70 - 136	1	20
Ethylene Dibromide			25.0	25.8		ug/L		103	70 - 130	0	20
Dibromomethane			25.0	26.6		ug/L		106	70 - 130	1	20
Dichlorodifluoromethane			25.0	20.7		ug/L		83	34 - 132	1	20
1,1-Dichloroethane			25.0	26.1		ug/L		105	70 - 130	2	20
1,2-Dichloroethane			25.0	26.4		ug/L		106	61 - 132	1	20
1,1-Dichloroethene			25.0	21.9		ug/L		88	64 - 128	1	20
cis-1,2-Dichloroethene			25.0	26.2		ug/L		105	70 - 130	1	20
trans-1,2-Dichloroethene			25.0	24.4		ug/L		98	68 - 130	0	20
1,2-Dichloropropane			25.0	26.1		ug/L		105	70 - 130	1	20
cis-1,3-Dichloropropene			25.0	26.7		ug/L		107	70 - 130	1	20
trans-1,3-Dichloropropene			25.0	28.7		ug/L		115	70 - 140	0	20
Ethylbenzene			25.0	26.5		ug/L		106	80 - 120	0	20
Hexachlorobutadiene			25.0	25.5		ug/L		102	70 - 130	5	20
2-Hexanone			125	132		ug/L		106	60 - 164	3	20
Isopropylbenzene			25.0	26.8		ug/L		107	70 - 130	0	20
4-Isopropyltoluene			25.0	26.7		ug/L		107	70 - 130	2	20
Methylene Chloride			25.0	24.1		ug/L		96	70 - 147	0	20
4-Methyl-2-pentanone (MIBK)			125	132		ug/L		106	58 - 130	2	20
Naphthalene			25.0	25.4		ug/L		101	70 - 130	1	20
N-Propylbenzene			25.0	26.9		ug/L		107	70 - 130	4	20
Styrene			25.0	24.5		ug/L		98	70 - 130	0	20
1,1,1,2-Tetrachloroethane			25.0	27.4		ug/L		110	70 - 130	1	20
1,1,2,2-Tetrachloroethane			25.0	26.2		ug/L		105	70 - 130	4	20
Tetrachloroethene			25.0	26.3		ug/L		105	70 - 130	1	20
Toluene			25.0	26.0		ug/L		104	78 - 120	2	20
1,2,3-Trichlorobenzene			25.0	24.4		ug/L		98	70 - 130	3	20
1,2,4-Trichlorobenzene			25.0	24.5		ug/L		98	70 - 130	1	20
1,1,1-Trichloroethane			25.0	27.4		ug/L		110	70 - 130	1	20
1,1,2-Trichloroethane			25.0	25.9		ug/L		104	70 - 130	1	20
Trichloroethene			25.0	26.7		ug/L		107	70 - 130	0	20
Trichlorofluoromethane			25.0	25.6		ug/L		102	66 - 132	0	20
1,2,3-Trichloropropane			25.0	28.2		ug/L		113	70 - 130	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	24.3		ug/L		97	42 - 162	3	20
1,2,4-Trimethylbenzene			25.0	26.2		ug/L		105	70 - 132	2	20
1,3,5-Trimethylbenzene			25.0	26.8		ug/L		107	70 - 130	3	20
Vinyl acetate			25.0	25.7		ug/L		103	43 - 163	13	20
Vinyl chloride			25.0	24.1		ug/L		96	54 - 135	1	20
m-Xylene & p-Xylene			25.0	26.1		ug/L		104	70 - 142	1	20
o-Xylene			25.0	26.4		ug/L		106	70 - 130	0	20
2,2-Dichloropropane			25.0	31.6		ug/L		126	70 - 140	1	20

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

Lab Sample ID: LCSD 720-182360/7
Matrix: Water
Analysis Batch: 182360

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

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

Lab Sample ID: LCSD 720-182360/9
Matrix: Water
Analysis Batch: 182360

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	533		ug/L		107	62 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: 720-64997-1 MS
Matrix: Water
Analysis Batch: 182360

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	26.2		ug/L		105	60 - 138
Acetone	ND		125	110		ug/L		88	60 - 140
Benzene	ND		25.0	25.8		ug/L		103	60 - 140
Dichlorobromomethane	ND		25.0	27.8		ug/L		111	60 - 140
Bromobenzene	ND		25.0	25.6		ug/L		103	60 - 140
Chlorobromomethane	ND		25.0	25.8		ug/L		103	60 - 140
Bromoform	ND		25.0	27.1		ug/L		108	56 - 140
Bromomethane	ND		25.0	24.7		ug/L		99	23 - 140
2-Butanone (MEK)	ND		125	124		ug/L		99	60 - 140
n-Butylbenzene	ND		25.0	25.7		ug/L		103	60 - 140
sec-Butylbenzene	ND		25.0	26.0		ug/L		104	60 - 140
tert-Butylbenzene	ND		25.0	25.8		ug/L		103	60 - 140
Carbon disulfide	ND		25.0	23.5		ug/L		94	38 - 140
Carbon tetrachloride	ND		25.0	29.2		ug/L		117	60 - 140
Chlorobenzene	ND		25.0	25.5		ug/L		102	60 - 140
Chloroethane	ND		25.0	24.9		ug/L		99	51 - 140
Chloroform	ND		25.0	26.3		ug/L		105	60 - 140
Chloromethane	ND		25.0	23.1		ug/L		92	52 - 140
2-Chlorotoluene	ND		25.0	25.8		ug/L		103	60 - 140
4-Chlorotoluene	ND		25.0	25.8		ug/L		103	60 - 140
Chlorodibromomethane	ND		25.0	28.2		ug/L		113	60 - 140
1,2-Dichlorobenzene	ND		25.0	25.7		ug/L		103	60 - 140
1,3-Dichlorobenzene	ND		25.0	25.4		ug/L		102	60 - 140
1,4-Dichlorobenzene	ND		25.0	24.7		ug/L		99	60 - 140
1,3-Dichloropropane	ND		25.0	26.4		ug/L		106	60 - 140
1,1-Dichloropropene	ND		25.0	27.8		ug/L		111	60 - 140

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

Lab Sample ID: 720-64997-1 MS
Matrix: Water
Analysis Batch: 182360

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	23.5		ug/L		94	60 - 140
Ethylene Dibromide	ND		25.0	25.8		ug/L		103	60 - 140
Dibromomethane	ND		25.0	26.5		ug/L		106	60 - 140
Dichlorodifluoromethane	ND		25.0	19.5		ug/L		78	38 - 140
1,1-Dichloroethane	ND		25.0	26.3		ug/L		105	60 - 140
1,2-Dichloroethane	ND		25.0	27.1		ug/L		108	60 - 140
1,1-Dichloroethene	ND		25.0	20.1		ug/L		81	60 - 140
cis-1,2-Dichloroethene	ND		25.0	26.5		ug/L		106	60 - 140
trans-1,2-Dichloroethene	ND		25.0	23.7		ug/L		95	60 - 140
1,2-Dichloropropane	ND		25.0	26.7		ug/L		107	60 - 140
cis-1,3-Dichloropropene	ND		25.0	27.6		ug/L		110	60 - 140
trans-1,3-Dichloropropene	ND		25.0	29.7		ug/L		119	60 - 140
Ethylbenzene	ND		25.0	25.7		ug/L		103	60 - 140
Hexachlorobutadiene	ND		25.0	24.9		ug/L		99	60 - 140
2-Hexanone	ND		125	127		ug/L		101	60 - 140
Isopropylbenzene	ND		25.0	25.8		ug/L		103	60 - 140
4-Isopropyltoluene	ND		25.0	25.5		ug/L		102	60 - 140
Methylene Chloride	ND		25.0	23.8		ug/L		95	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	130		ug/L		104	58 - 130
Naphthalene	ND		25.0	24.3		ug/L		97	56 - 140
N-Propylbenzene	ND		25.0	25.9		ug/L		104	60 - 140
Styrene	ND		25.0	23.5		ug/L		94	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	27.2		ug/L		109	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	25.5		ug/L		102	60 - 140
Tetrachloroethene	ND		25.0	25.8		ug/L		103	60 - 140
Toluene	ND		25.0	25.5		ug/L		102	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	24.2		ug/L		97	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	24.7		ug/L		99	60 - 140
1,1,1-Trichloroethane	ND		25.0	26.8		ug/L		107	60 - 140
1,1,2-Trichloroethane	ND		25.0	25.9		ug/L		103	60 - 140
Trichloroethene	ND		25.0	25.9		ug/L		104	60 - 140
Trichlorofluoromethane	ND		25.0	24.7		ug/L		99	60 - 140
1,2,3-Trichloropropane	ND		25.0	26.3		ug/L		105	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	23.0		ug/L		92	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	25.8		ug/L		103	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	26.0		ug/L		104	60 - 140
Vinyl acetate	ND		25.0	29.8		ug/L		119	40 - 140
Vinyl chloride	ND		25.0	22.5		ug/L		90	58 - 140
m-Xylene & p-Xylene	ND		25.0	25.6		ug/L		103	60 - 140
o-Xylene	ND		25.0	26.0		ug/L		104	60 - 140
2,2-Dichloropropane	ND		25.0	31.5		ug/L		126	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

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

Lab Sample ID: 720-64997-1 MSD
Matrix: Water
Analysis Batch: 182360

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	26.6		ug/L		106	60 - 138	2	20
Acetone	ND		125	109		ug/L		87	60 - 140	1	20
Benzene	ND		25.0	25.9		ug/L		104	60 - 140	1	20
Dichlorobromomethane	ND		25.0	27.7		ug/L		111	60 - 140	0	20
Bromobenzene	ND		25.0	25.8		ug/L		103	60 - 140	1	20
Chlorobromomethane	ND		25.0	26.2		ug/L		105	60 - 140	2	20
Bromoform	ND		25.0	28.4		ug/L		113	56 - 140	5	20
Bromomethane	ND		25.0	24.0		ug/L		96	23 - 140	3	20
2-Butanone (MEK)	ND		125	125		ug/L		100	60 - 140	1	20
n-Butylbenzene	ND		25.0	25.3		ug/L		101	60 - 140	2	20
sec-Butylbenzene	ND		25.0	25.7		ug/L		103	60 - 140	1	20
tert-Butylbenzene	ND		25.0	25.4		ug/L		102	60 - 140	2	20
Carbon disulfide	ND		25.0	23.3		ug/L		93	38 - 140	1	20
Carbon tetrachloride	ND		25.0	29.1		ug/L		116	60 - 140	0	20
Chlorobenzene	ND		25.0	25.7		ug/L		103	60 - 140	1	20
Chloroethane	ND		25.0	24.1		ug/L		96	51 - 140	3	20
Chloroform	ND		25.0	26.4		ug/L		106	60 - 140	0	20
Chloromethane	ND		25.0	22.2		ug/L		89	52 - 140	4	20
2-Chlorotoluene	ND		25.0	25.6		ug/L		102	60 - 140	1	20
4-Chlorotoluene	ND		25.0	25.5		ug/L		102	60 - 140	1	20
Chlorodibromomethane	ND		25.0	28.9		ug/L		116	60 - 140	2	20
1,2-Dichlorobenzene	ND		25.0	25.5		ug/L		102	60 - 140	1	20
1,3-Dichlorobenzene	ND		25.0	25.1		ug/L		100	60 - 140	1	20
1,4-Dichlorobenzene	ND		25.0	24.6		ug/L		98	60 - 140	0	20
1,3-Dichloropropane	ND		25.0	26.5		ug/L		106	60 - 140	0	20
1,1-Dichloropropene	ND		25.0	27.5		ug/L		110	60 - 140	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	24.3		ug/L		97	60 - 140	3	20
Ethylene Dibromide	ND		25.0	26.6		ug/L		106	60 - 140	3	20
Dibromomethane	ND		25.0	27.0		ug/L		108	60 - 140	2	20
Dichlorodifluoromethane	ND		25.0	18.7		ug/L		75	38 - 140	4	20
1,1-Dichloroethane	ND		25.0	26.4		ug/L		105	60 - 140	0	20
1,2-Dichloroethane	ND		25.0	27.3		ug/L		109	60 - 140	1	20
1,1-Dichloroethene	ND		25.0	19.8		ug/L		79	60 - 140	2	20
cis-1,2-Dichloroethene	ND		25.0	26.5		ug/L		106	60 - 140	0	20
trans-1,2-Dichloroethene	ND		25.0	23.7		ug/L		95	60 - 140	0	20
1,2-Dichloropropane	ND		25.0	26.9		ug/L		108	60 - 140	1	20
cis-1,3-Dichloropropene	ND		25.0	27.8		ug/L		111	60 - 140	1	20
trans-1,3-Dichloropropene	ND		25.0	30.2		ug/L		121	60 - 140	2	20
Ethylbenzene	ND		25.0	25.8		ug/L		103	60 - 140	0	20
Hexachlorobutadiene	ND		25.0	24.4		ug/L		98	60 - 140	2	20
2-Hexanone	ND		125	130		ug/L		104	60 - 140	2	20
Isopropylbenzene	ND		25.0	25.6		ug/L		102	60 - 140	1	20
4-Isopropyltoluene	ND		25.0	25.3		ug/L		101	60 - 140	1	20
Methylene Chloride	ND		25.0	23.9		ug/L		95	40 - 140	0	20
4-Methyl-2-pentanone (MIBK)	ND		125	133		ug/L		106	58 - 130	2	20
Naphthalene	ND		25.0	25.0		ug/L		100	56 - 140	3	20
N-Propylbenzene	ND		25.0	25.7		ug/L		103	60 - 140	1	20
Styrene	ND		25.0	23.4		ug/L		94	60 - 140	0	20

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

Lab Sample ID: 720-64997-1 MSD
Matrix: Water
Analysis Batch: 182360

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	27.6		ug/L		110	60 - 140	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.0		ug/L		104	60 - 140	2	20
Tetrachloroethene	ND		25.0	25.7		ug/L		103	60 - 140	0	20
Toluene	ND		25.0	25.6		ug/L		102	60 - 140	0	20
1,2,3-Trichlorobenzene	ND		25.0	24.6		ug/L		99	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		25.0	25.0		ug/L		100	60 - 140	1	20
1,1,1-Trichloroethane	ND		25.0	26.7		ug/L		107	60 - 140	0	20
1,1,2-Trichloroethane	ND		25.0	26.7		ug/L		107	60 - 140	3	20
Trichloroethene	ND		25.0	26.0		ug/L		104	60 - 140	0	20
Trichlorofluoromethane	ND		25.0	24.3		ug/L		97	60 - 140	2	20
1,2,3-Trichloropropane	ND		25.0	27.1		ug/L		109	60 - 140	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.8		ug/L		91	60 - 140	1	20
1,2,4-Trimethylbenzene	ND		25.0	25.3		ug/L		101	60 - 140	2	20
1,3,5-Trimethylbenzene	ND		25.0	25.4		ug/L		102	60 - 140	2	20
Vinyl acetate	ND		25.0	30.1		ug/L		121	40 - 140	1	20
Vinyl chloride	ND		25.0	21.8		ug/L		87	58 - 140	3	20
m-Xylene & p-Xylene	ND		25.0	25.5		ug/L		102	60 - 140	0	20
o-Xylene	ND		25.0	26.0		ug/L		104	60 - 140	0	20
2,2-Dichloropropane	ND		25.0	29.2		ug/L		117	60 - 140	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-64997-1

GC/MS VOA

Analysis Batch: 182360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64997-1	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-64997-1 MS	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-64997-1 MSD	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-64997-2	INF	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-182360/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-182360/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-182360/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-182360/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-182360/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-64997-1

Client Sample ID: EFF
Lab Sample ID: 720-64997-1
Date Collected: 05/21/15 15:42
Matrix: Water
Date Received: 05/22/15 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	182360	05/26/15 23:14	PRD	TAL PLS

Client Sample ID: INF
Lab Sample ID: 720-64997-2
Date Collected: 05/21/15 15:44
Matrix: Water
Date Received: 05/22/15 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	182360	05/27/15 00:38	PRD	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: 720-64997-1

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	01-31-16

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-64997-1

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: 720-64997-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-64997-1	EFF	Water	05/21/15 15:42	05/22/15 12:45
720-64997-2	INF	Water	05/21/15 15:44	05/22/15 12:45

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
phone 925.484.1919 fax

Chain of Custody Record

720-64997

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ref# 161341

TestAmerica Laboratories, Inc.

5/29/2015

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Peter Sims	Site Contact: Peter Sims	Date: 5-22-15	COC No: 1
Ninyo & Moore	Tel/Fax: 510-327-9335	Lab Contact: Dimple Sharma	Carrier:	1 of COCs
1956 Webster Street, Ste. 400	Analysis Turnaround Time			Sampler: Peter Sims
Oakland, CA 946501	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
510-343-3000 Phone	TAT if different from Below _____			Walk-in Client:
510-343-3001 FAX	☐ 2 weeks			Lab Sampling:
Project Name:	☒ 1 week			
Site:	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Title 22 Metals by EPA 6010/7471	TPHd and TPHmo by EPA 8015B	VOCs and TPHg by EPA 8260B	OCPs by EPA 8081	Sample Specific Notes:
EFF	5/21	1542	G	water	3	N	Y			X		
INF	5/21	1544	G	water	3	N	Y			X		

720-64997 Chain of Custody

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

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

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by: Peter Sims	Ninyo & Moore	5/22 11:35	Received by:	TA	5-22-15 11:35
Relinquished by:	TA	5-22-15 12:45	Received by:		
Relinquished by:			Received in Laboratory by:		5-22-15 1245

5.2 °C

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-64997-1

Login Number: 64997
List Number: 1
Creator: Gonzales, Justinn

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.	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

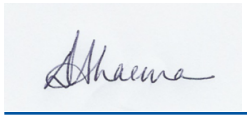
ANALYTICAL REPORT

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

TestAmerica Job ID: 720-65549-1
Client Project/Site: Chun

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

Attn: Mr. Peter D. Sims



Authorized for release by:
6/22/2015 2:07:13 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: 720-65549-1

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: 720-65549-1

Job ID: 720-65549-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-65549-1

Comments
No additional comments.

Receipt
The samples were received on 6/18/2015 5:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7º 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: 720-65549-1

Client Sample ID: INF — Lab Sample ID: 720-65549-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.88		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	4.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	1.6		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Chloroform	2.1		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	5.1		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	2.7		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	2.4		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	30		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	100		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	630		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: EFF — Lab Sample ID: 720-65549-2

No Detections.

Client Sample ID: GAC — Lab Sample ID: 720-65549-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65549-1

Client Sample ID: INF
Date Collected: 06/18/15 09:10
Date Received: 06/18/15 17:00

Lab Sample ID: 720-65549-1
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	**0.88**		0.50		ug/L			06/19/15 16:47	1
Acetone	ND		50		ug/L			06/19/15 16:47	1
Benzene	**4.0**		0.50		ug/L			06/19/15 16:47	1
Dichlorobromomethane	ND		0.50		ug/L			06/19/15 16:47	1
Bromobenzene	ND		1.0		ug/L			06/19/15 16:47	1
Chlorobromomethane	ND		1.0		ug/L			06/19/15 16:47	1
Bromoform	ND		1.0		ug/L			06/19/15 16:47	1
Bromomethane	ND		1.0		ug/L			06/19/15 16:47	1
2-Butanone (MEK)	ND		50		ug/L			06/19/15 16:47	1
n-Butylbenzene	**1.6**		1.0		ug/L			06/19/15 16:47	1
sec-Butylbenzene	ND		1.0		ug/L			06/19/15 16:47	1
tert-Butylbenzene	ND		1.0		ug/L			06/19/15 16:47	1
Carbon disulfide	ND		5.0		ug/L			06/19/15 16:47	1
Carbon tetrachloride	ND		0.50		ug/L			06/19/15 16:47	1
Chlorobenzene	ND		0.50		ug/L			06/19/15 16:47	1
Chloroethane	ND		1.0		ug/L			06/19/15 16:47	1
Chloroform	**2.1**		1.0		ug/L			06/19/15 16:47	1
Chloromethane	ND		1.0		ug/L			06/19/15 16:47	1
2-Chlorotoluene	ND		0.50		ug/L			06/19/15 16:47	1
4-Chlorotoluene	ND		0.50		ug/L			06/19/15 16:47	1
Chlorodibromomethane	ND		0.50		ug/L			06/19/15 16:47	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/19/15 16:47	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/19/15 16:47	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/19/15 16:47	1
1,3-Dichloropropane	ND		1.0		ug/L			06/19/15 16:47	1
1,1-Dichloropropene	ND		0.50		ug/L			06/19/15 16:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/19/15 16:47	1
Ethylene Dibromide	ND		0.50		ug/L			06/19/15 16:47	1
Dibromomethane	ND		0.50		ug/L			06/19/15 16:47	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/19/15 16:47	1
1,1-Dichloroethane	ND		0.50		ug/L			06/19/15 16:47	1
1,2-Dichloroethane	ND		0.50		ug/L			06/19/15 16:47	1
1,1-Dichloroethene	ND		0.50		ug/L			06/19/15 16:47	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/19/15 16:47	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/19/15 16:47	1
1,2-Dichloropropane	ND		0.50		ug/L			06/19/15 16:47	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/19/15 16:47	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/19/15 16:47	1
Ethylbenzene	ND		0.50		ug/L			06/19/15 16:47	1
Hexachlorobutadiene	ND		1.0		ug/L			06/19/15 16:47	1
2-Hexanone	ND		50		ug/L			06/19/15 16:47	1
Isopropylbenzene	ND		0.50		ug/L			06/19/15 16:47	1
4-Isopropyltoluene	ND		1.0		ug/L			06/19/15 16:47	1
Methylene Chloride	ND		5.0		ug/L			06/19/15 16:47	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/19/15 16:47	1
Naphthalene	**5.1**		1.0		ug/L			06/19/15 16:47	1
N-Propylbenzene	ND		1.0		ug/L			06/19/15 16:47	1
Styrene	ND		0.50		ug/L			06/19/15 16:47	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/19/15 16:47	1

Client Sample ID: INF
Date Collected: 06/18/15 09:10
Date Received: 06/18/15 17:00

Lab Sample ID: 720-65549-1
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			06/19/15 16:47	1
Tetrachloroethene	ND		0.50		ug/L			06/19/15 16:47	1
Toluene	**2.7**		0.50		ug/L			06/19/15 16:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/19/15 16:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/19/15 16:47	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/19/15 16:47	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/19/15 16:47	1
Trichloroethene	ND		0.50		ug/L			06/19/15 16:47	1
Trichlorofluoromethane	ND		1.0		ug/L			06/19/15 16:47	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/19/15 16:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/19/15 16:47	1
1,2,4-Trimethylbenzene	**2.4**		0.50		ug/L			06/19/15 16:47	1
1,3,5-Trimethylbenzene	**30**		0.50		ug/L			06/19/15 16:47	1
Vinyl acetate	ND		10		ug/L			06/19/15 16:47	1
Vinyl chloride	ND		0.50		ug/L			06/19/15 16:47	1
Xylenes, Total	**100**		1.0		ug/L			06/19/15 16:47	1
2,2-Dichloropropane	ND		0.50		ug/L			06/19/15 16:47	1
Gasoline Range Organics (GRO) -C5-C12	**630**		50		ug/L			06/19/15 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*67 - 130*		*06/19/15 16:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*		*06/19/15 16:47*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*06/19/15 16:47*	*1*

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65549-1

Client Sample ID: EFF
Date Collected: 06/18/15 09:15
Date Received: 06/18/15 17:00

Lab Sample ID: 720-65549-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			06/19/15 17:17	1
Acetone	ND		50		ug/L			06/19/15 17:17	1
Benzene	ND		0.50		ug/L			06/19/15 17:17	1
Dichlorobromomethane	ND		0.50		ug/L			06/19/15 17:17	1
Bromobenzene	ND		1.0		ug/L			06/19/15 17:17	1
Chlorobromomethane	ND		1.0		ug/L			06/19/15 17:17	1
Bromoform	ND		1.0		ug/L			06/19/15 17:17	1
Bromomethane	ND		1.0		ug/L			06/19/15 17:17	1
2-Butanone (MEK)	ND		50		ug/L			06/19/15 17:17	1
n-Butylbenzene	ND		1.0		ug/L			06/19/15 17:17	1
sec-Butylbenzene	ND		1.0		ug/L			06/19/15 17:17	1
tert-Butylbenzene	ND		1.0		ug/L			06/19/15 17:17	1
Carbon disulfide	ND		5.0		ug/L			06/19/15 17:17	1
Carbon tetrachloride	ND		0.50		ug/L			06/19/15 17:17	1
Chlorobenzene	ND		0.50		ug/L			06/19/15 17:17	1
Chloroethane	ND		1.0		ug/L			06/19/15 17:17	1
Chloroform	ND		1.0		ug/L			06/19/15 17:17	1
Chloromethane	ND		1.0		ug/L			06/19/15 17:17	1
2-Chlorotoluene	ND		0.50		ug/L			06/19/15 17:17	1
4-Chlorotoluene	ND		0.50		ug/L			06/19/15 17:17	1
Chlorodibromomethane	ND		0.50		ug/L			06/19/15 17:17	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/19/15 17:17	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/19/15 17:17	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/19/15 17:17	1
1,3-Dichloropropane	ND		1.0		ug/L			06/19/15 17:17	1
1,1-Dichloropropene	ND		0.50		ug/L			06/19/15 17:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/19/15 17:17	1
Ethylene Dibromide	ND		0.50		ug/L			06/19/15 17:17	1
Dibromomethane	ND		0.50		ug/L			06/19/15 17:17	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/19/15 17:17	1
1,1-Dichloroethane	ND		0.50		ug/L			06/19/15 17:17	1
1,2-Dichloroethane	ND		0.50		ug/L			06/19/15 17:17	1
1,1-Dichloroethene	ND		0.50		ug/L			06/19/15 17:17	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/19/15 17:17	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/19/15 17:17	1
1,2-Dichloropropane	ND		0.50		ug/L			06/19/15 17:17	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/19/15 17:17	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/19/15 17:17	1
Ethylbenzene	ND		0.50		ug/L			06/19/15 17:17	1
Hexachlorobutadiene	ND		1.0		ug/L			06/19/15 17:17	1
2-Hexanone	ND		50		ug/L			06/19/15 17:17	1
Isopropylbenzene	ND		0.50		ug/L			06/19/15 17:17	1
4-Isopropyltoluene	ND		1.0		ug/L			06/19/15 17:17	1
Methylene Chloride	ND		5.0		ug/L			06/19/15 17:17	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/19/15 17:17	1
Naphthalene	ND		1.0		ug/L			06/19/15 17:17	1
N-Propylbenzene	ND		1.0		ug/L			06/19/15 17:17	1
Styrene	ND		0.50		ug/L			06/19/15 17:17	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/19/15 17:17	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65549-1

Client Sample ID: EFF
Date Collected: 06/18/15 09:15
Date Received: 06/18/15 17:00

Lab Sample ID: 720-65549-2
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			06/19/15 17:17	1
Tetrachloroethene	ND		0.50		ug/L			06/19/15 17:17	1
Toluene	ND		0.50		ug/L			06/19/15 17:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/19/15 17:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/19/15 17:17	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/19/15 17:17	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/19/15 17:17	1
Trichloroethene	ND		0.50		ug/L			06/19/15 17:17	1
Trichlorofluoromethane	ND		1.0		ug/L			06/19/15 17:17	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/19/15 17:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/19/15 17:17	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/19/15 17:17	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/19/15 17:17	1
Vinyl acetate	ND		10		ug/L			06/19/15 17:17	1
Vinyl chloride	ND		0.50		ug/L			06/19/15 17:17	1
Xylenes, Total	ND		1.0		ug/L			06/19/15 17:17	1
2,2-Dichloropropane	ND		0.50		ug/L			06/19/15 17:17	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/19/15 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*06/19/15 17:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 130*		*06/19/15 17:17*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*06/19/15 17:17*	*1*

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65549-1

Client Sample ID: GAC
Date Collected: 06/18/15 09:12
Date Received: 06/18/15 17:00

Lab Sample ID: 720-65549-3
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			06/19/15 17:47	1
Acetone	ND		50		ug/L			06/19/15 17:47	1
Benzene	ND		0.50		ug/L			06/19/15 17:47	1
Dichlorobromomethane	ND		0.50		ug/L			06/19/15 17:47	1
Bromobenzene	ND		1.0		ug/L			06/19/15 17:47	1
Chlorobromomethane	ND		1.0		ug/L			06/19/15 17:47	1
Bromoform	ND		1.0		ug/L			06/19/15 17:47	1
Bromomethane	ND		1.0		ug/L			06/19/15 17:47	1
2-Butanone (MEK)	ND		50		ug/L			06/19/15 17:47	1
n-Butylbenzene	ND		1.0		ug/L			06/19/15 17:47	1
sec-Butylbenzene	ND		1.0		ug/L			06/19/15 17:47	1
tert-Butylbenzene	ND		1.0		ug/L			06/19/15 17:47	1
Carbon disulfide	ND		5.0		ug/L			06/19/15 17:47	1
Carbon tetrachloride	ND		0.50		ug/L			06/19/15 17:47	1
Chlorobenzene	ND		0.50		ug/L			06/19/15 17:47	1
Chloroethane	ND		1.0		ug/L			06/19/15 17:47	1
Chloroform	ND		1.0		ug/L			06/19/15 17:47	1
Chloromethane	ND		1.0		ug/L			06/19/15 17:47	1
2-Chlorotoluene	ND		0.50		ug/L			06/19/15 17:47	1
4-Chlorotoluene	ND		0.50		ug/L			06/19/15 17:47	1
Chlorodibromomethane	ND		0.50		ug/L			06/19/15 17:47	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/19/15 17:47	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/19/15 17:47	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/19/15 17:47	1
1,3-Dichloropropane	ND		1.0		ug/L			06/19/15 17:47	1
1,1-Dichloropropene	ND		0.50		ug/L			06/19/15 17:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/19/15 17:47	1
Ethylene Dibromide	ND		0.50		ug/L			06/19/15 17:47	1
Dibromomethane	ND		0.50		ug/L			06/19/15 17:47	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/19/15 17:47	1
1,1-Dichloroethane	ND		0.50		ug/L			06/19/15 17:47	1
1,2-Dichloroethane	ND		0.50		ug/L			06/19/15 17:47	1
1,1-Dichloroethene	ND		0.50		ug/L			06/19/15 17:47	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/19/15 17:47	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/19/15 17:47	1
1,2-Dichloropropane	ND		0.50		ug/L			06/19/15 17:47	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/19/15 17:47	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/19/15 17:47	1
Ethylbenzene	ND		0.50		ug/L			06/19/15 17:47	1
Hexachlorobutadiene	ND		1.0		ug/L			06/19/15 17:47	1
2-Hexanone	ND		50		ug/L			06/19/15 17:47	1
Isopropylbenzene	ND		0.50		ug/L			06/19/15 17:47	1
4-Isopropyltoluene	ND		1.0		ug/L			06/19/15 17:47	1
Methylene Chloride	ND		5.0		ug/L			06/19/15 17:47	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/19/15 17:47	1
Naphthalene	ND		1.0		ug/L			06/19/15 17:47	1
N-Propylbenzene	ND		1.0		ug/L			06/19/15 17:47	1
Styrene	ND		0.50		ug/L			06/19/15 17:47	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/19/15 17:47	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65549-1

Client Sample ID: GAC
Date Collected: 06/18/15 09:12
Date Received: 06/18/15 17:00

Lab Sample ID: 720-65549-3
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			06/19/15 17:47	1
Tetrachloroethene	ND		0.50		ug/L			06/19/15 17:47	1
Toluene	ND		0.50		ug/L			06/19/15 17:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/19/15 17:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/19/15 17:47	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/19/15 17:47	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/19/15 17:47	1
Trichloroethene	ND		0.50		ug/L			06/19/15 17:47	1
Trichlorofluoromethane	ND		1.0		ug/L			06/19/15 17:47	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/19/15 17:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/19/15 17:47	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/19/15 17:47	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/19/15 17:47	1
Vinyl acetate	ND		10		ug/L			06/19/15 17:47	1
Vinyl chloride	ND		0.50		ug/L			06/19/15 17:47	1
Xylenes, Total	ND		1.0		ug/L			06/19/15 17:47	1
2,2-Dichloropropane	ND		0.50		ug/L			06/19/15 17:47	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/19/15 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*06/19/15 17:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 130*		*06/19/15 17:47*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*06/19/15 17:47*	*1*

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65549-1

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)
720-65549-1	INF	105	92	103
720-65549-2	EFF	101	88	103
720-65549-3	GAC	99	90	102
LCS 720-183918/5	Lab Control Sample	97	84	99
LCS 720-183918/7	Lab Control Sample	100	86	99
LCSD 720-183918/6	Lab Control Sample Dup	96	82	99
LCSD 720-183918/8	Lab Control Sample Dup	100	87	99
MB 720-183918/4	Method Blank	98	90	99

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 720-183918/4
Matrix: Water
Analysis Batch: 183918

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			06/19/15 08:36	1
Acetone	ND		50		ug/L			06/19/15 08:36	1
Benzene	ND		0.50		ug/L			06/19/15 08:36	1
Dichlorobromomethane	ND		0.50		ug/L			06/19/15 08:36	1
Bromobenzene	ND		1.0		ug/L			06/19/15 08:36	1
Chlorobromomethane	ND		1.0		ug/L			06/19/15 08:36	1
Bromoform	ND		1.0		ug/L			06/19/15 08:36	1
Bromomethane	ND		1.0		ug/L			06/19/15 08:36	1
2-Butanone (MEK)	ND		50		ug/L			06/19/15 08:36	1
n-Butylbenzene	ND		1.0		ug/L			06/19/15 08:36	1
sec-Butylbenzene	ND		1.0		ug/L			06/19/15 08:36	1
tert-Butylbenzene	ND		1.0		ug/L			06/19/15 08:36	1
Carbon disulfide	ND		5.0		ug/L			06/19/15 08:36	1
Carbon tetrachloride	ND		0.50		ug/L			06/19/15 08:36	1
Chlorobenzene	ND		0.50		ug/L			06/19/15 08:36	1
Chloroethane	ND		1.0		ug/L			06/19/15 08:36	1
Chloroform	ND		1.0		ug/L			06/19/15 08:36	1
Chloromethane	ND		1.0		ug/L			06/19/15 08:36	1
2-Chlorotoluene	ND		0.50		ug/L			06/19/15 08:36	1
4-Chlorotoluene	ND		0.50		ug/L			06/19/15 08:36	1
Chlorodibromomethane	ND		0.50		ug/L			06/19/15 08:36	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/19/15 08:36	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/19/15 08:36	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/19/15 08:36	1
1,3-Dichloropropane	ND		1.0		ug/L			06/19/15 08:36	1
1,1-Dichloropropene	ND		0.50		ug/L			06/19/15 08:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/19/15 08:36	1
Ethylene Dibromide	ND		0.50		ug/L			06/19/15 08:36	1
Dibromomethane	ND		0.50		ug/L			06/19/15 08:36	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/19/15 08:36	1
1,1-Dichloroethane	ND		0.50		ug/L			06/19/15 08:36	1
1,2-Dichloroethane	ND		0.50		ug/L			06/19/15 08:36	1
1,1-Dichloroethene	ND		0.50		ug/L			06/19/15 08:36	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/19/15 08:36	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/19/15 08:36	1
1,2-Dichloropropane	ND		0.50		ug/L			06/19/15 08:36	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/19/15 08:36	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/19/15 08:36	1
Ethylbenzene	ND		0.50		ug/L			06/19/15 08:36	1
Hexachlorobutadiene	ND		1.0		ug/L			06/19/15 08:36	1
2-Hexanone	ND		50		ug/L			06/19/15 08:36	1
Isopropylbenzene	ND		0.50		ug/L			06/19/15 08:36	1
4-Isopropyltoluene	ND		1.0		ug/L			06/19/15 08:36	1
Methylene Chloride	ND		5.0		ug/L			06/19/15 08:36	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/19/15 08:36	1
Naphthalene	ND		1.0		ug/L			06/19/15 08:36	1
N-Propylbenzene	ND		1.0		ug/L			06/19/15 08:36	1
Styrene	ND		0.50		ug/L			06/19/15 08:36	1

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

Lab Sample ID: MB 720-183918/4
Matrix: Water
Analysis Batch: 183918

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			06/19/15 08:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/19/15 08:36	1
Tetrachloroethene	ND		0.50		ug/L			06/19/15 08:36	1
Toluene	ND		0.50		ug/L			06/19/15 08:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/19/15 08:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/19/15 08:36	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/19/15 08:36	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/19/15 08:36	1
Trichloroethene	ND		0.50		ug/L			06/19/15 08:36	1
Trichlorofluoromethane	ND		1.0		ug/L			06/19/15 08:36	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/19/15 08:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			06/19/15 08:36	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/19/15 08:36	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/19/15 08:36	1
Vinyl acetate	ND		10		ug/L			06/19/15 08:36	1
Vinyl chloride	ND		0.50		ug/L			06/19/15 08:36	1
Xylenes, Total	ND		1.0		ug/L			06/19/15 08:36	1
2,2-Dichloropropane	ND		0.50		ug/L			06/19/15 08:36	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			06/19/15 08:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*06/19/15 08:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 130*		*06/19/15 08:36*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*06/19/15 08:36*	*1*

Lab Sample ID: LCS 720-183918/5
Matrix: Water
Analysis Batch: 183918

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	21.6		ug/L		86	62 - 130
Acetone	125	120		ug/L		96	26 - 180
Benzene	25.0	24.2		ug/L		97	79 - 130
Dichlorobromomethane	25.0	21.9		ug/L		88	70 - 130
Bromobenzene	25.0	24.5		ug/L		98	70 - 130
Chlorobromomethane	25.0	23.2		ug/L		93	70 - 130
Bromoform	25.0	24.1		ug/L		96	68 - 136
Bromomethane	25.0	25.2		ug/L		101	43 - 151
2-Butanone (MEK)	125	128		ug/L		102	54 - 130
n-Butylbenzene	25.0	26.4		ug/L		106	70 - 142
sec-Butylbenzene	25.0	25.3		ug/L		101	70 - 134
tert-Butylbenzene	25.0	24.3		ug/L		97	70 - 135
Carbon disulfide	25.0	22.5		ug/L		90	58 - 130
Carbon tetrachloride	25.0	22.3		ug/L		89	70 - 146
Chlorobenzene	25.0	24.4		ug/L		98	70 - 130
Chloroethane	25.0	24.2		ug/L		97	62 - 138
Chloroform	25.0	22.3		ug/L		89	70 - 130

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

Lab Sample ID: LCS 720-183918/5
Matrix: Water
Analysis Batch: 183918

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	22.8		ug/L		91	52 - 175
2-Chlorotoluene	25.0	24.6		ug/L		99	70 - 130
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
Chlorodibromomethane	25.0	22.5		ug/L		90	70 - 145
1,2-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,4-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,3-Dichloropropane	25.0	23.0		ug/L		92	70 - 130
1,1-Dichloropropene	25.0	25.2		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.3		ug/L		101	70 - 136
Ethylene Dibromide	25.0	23.7		ug/L		95	70 - 130
Dibromomethane	25.0	23.5		ug/L		94	70 - 130
Dichlorodifluoromethane	25.0	22.0		ug/L		88	34 - 132
1,1-Dichloroethane	25.0	22.6		ug/L		90	70 - 130
1,2-Dichloroethane	25.0	20.0		ug/L		80	61 - 132
1,1-Dichloroethene	25.0	20.9		ug/L		84	64 - 128
cis-1,2-Dichloroethene	25.0	22.2		ug/L		89	70 - 130
trans-1,2-Dichloroethene	25.0	22.7		ug/L		91	68 - 130
1,2-Dichloropropane	25.0	22.6		ug/L		90	70 - 130
cis-1,3-Dichloropropene	25.0	24.3		ug/L		97	70 - 130
trans-1,3-Dichloropropene	25.0	25.4		ug/L		101	70 - 140
Ethylbenzene	25.0	24.9		ug/L		100	80 - 120
Hexachlorobutadiene	25.0	24.3		ug/L		97	70 - 130
2-Hexanone	125	112		ug/L		89	60 - 164
Isopropylbenzene	25.0	24.5		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	24.9		ug/L		99	70 - 130
Methylene Chloride	25.0	21.9		ug/L		88	70 - 147
4-Methyl-2-pentanone (MIBK)	125	110		ug/L		88	58 - 130
Naphthalene	25.0	24.2		ug/L		97	70 - 130
N-Propylbenzene	25.0	25.7		ug/L		103	70 - 130
Styrene	25.0	23.6		ug/L		94	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.3		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.6		ug/L		102	70 - 130
Tetrachloroethene	25.0	24.6		ug/L		99	70 - 130
Toluene	25.0	25.4		ug/L		101	78 - 120
1,2,3-Trichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,1,1-Trichloroethane	25.0	21.8		ug/L		87	70 - 130
1,1,2-Trichloroethane	25.0	23.8		ug/L		95	70 - 130
Trichloroethene	25.0	24.2		ug/L		97	70 - 130
Trichlorofluoromethane	25.0	22.2		ug/L		89	66 - 132
1,2,3-Trichloropropane	25.0	24.6		ug/L		98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.9		ug/L		88	42 - 162
1,2,4-Trimethylbenzene	25.0	24.4		ug/L		98	70 - 132
1,3,5-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130
Vinyl acetate	25.0	22.1		ug/L		88	43 - 163
Vinyl chloride	25.0	24.2		ug/L		97	54 - 135

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

Lab Sample ID: LCS 720-183918/5
Matrix: Water
Analysis Batch: 183918

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	24.6		ug/L		98	70 - 142
o-Xylene	25.0	24.0		ug/L		96	70 - 130
2,2-Dichloropropane	25.0	25.5		ug/L		102	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*84*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCS 720-183918/7
Matrix: Water
Analysis Batch: 183918

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	480		ug/L		96	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 720-183918/6
Matrix: Water
Analysis Batch: 183918

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	21.2		ug/L		85	62 - 130	2	20
Acetone	125	113		ug/L		90	26 - 180	7	30
Benzene	25.0	24.1		ug/L		96	79 - 130	0	20
Dichlorobromomethane	25.0	21.8		ug/L		87	70 - 130	1	20
Bromobenzene	25.0	24.8		ug/L		99	70 - 130	1	20
Chlorobromomethane	25.0	22.9		ug/L		92	70 - 130	1	20
Bromoform	25.0	23.7		ug/L		95	68 - 136	2	20
Bromomethane	25.0	26.0		ug/L		104	43 - 151	3	20
2-Butanone (MEK)	125	123		ug/L		99	54 - 130	4	20
n-Butylbenzene	25.0	26.4		ug/L		106	70 - 142	0	20
sec-Butylbenzene	25.0	26.1		ug/L		104	70 - 134	3	20
tert-Butylbenzene	25.0	24.9		ug/L		99	70 - 135	2	20
Carbon disulfide	25.0	22.3		ug/L		89	58 - 130	1	20
Carbon tetrachloride	25.0	22.5		ug/L		90	70 - 146	1	20
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130	0	20
Chloroethane	25.0	25.6		ug/L		102	62 - 138	6	20
Chloroform	25.0	22.3		ug/L		89	70 - 130	0	20
Chloromethane	25.0	23.2		ug/L		93	52 - 175	2	20
2-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130	2	20
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130	0	20
Chlorodibromomethane	25.0	22.6		ug/L		90	70 - 145	0	20

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

Lab Sample ID: LCSD 720-183918/6
Matrix: Water
Analysis Batch: 183918

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	24.2		ug/L		97	70 - 130	1	20
1,3-Dichlorobenzene			25.0	24.9		ug/L		100	70 - 130	1	20
1,4-Dichlorobenzene			25.0	24.7		ug/L		99	70 - 130	2	20
1,3-Dichloropropane			25.0	22.7		ug/L		91	70 - 130	1	20
1,1-Dichloropropene			25.0	25.4		ug/L		102	70 - 130	1	20
1,2-Dibromo-3-Chloropropane			25.0	23.9		ug/L		96	70 - 136	6	20
Ethylene Dibromide			25.0	23.2		ug/L		93	70 - 130	2	20
Dibromomethane			25.0	22.9		ug/L		91	70 - 130	3	20
Dichlorodifluoromethane			25.0	23.5		ug/L		94	34 - 132	7	20
1,1-Dichloroethane			25.0	22.5		ug/L		90	70 - 130	1	20
1,2-Dichloroethane			25.0	19.7		ug/L		79	61 - 132	1	20
1,1-Dichloroethene			25.0	21.0		ug/L		84	64 - 128	0	20
cis-1,2-Dichloroethene			25.0	22.4		ug/L		90	70 - 130	1	20
trans-1,2-Dichloroethene			25.0	23.0		ug/L		92	68 - 130	1	20
1,2-Dichloropropane			25.0	23.2		ug/L		93	70 - 130	3	20
cis-1,3-Dichloropropene			25.0	24.1		ug/L		96	70 - 130	1	20
trans-1,3-Dichloropropene			25.0	24.8		ug/L		99	70 - 140	2	20
Ethylbenzene			25.0	25.1		ug/L		100	80 - 120	1	20
Hexachlorobutadiene			25.0	24.1		ug/L		97	70 - 130	1	20
2-Hexanone			125	106		ug/L		84	60 - 164	6	20
Isopropylbenzene			25.0	24.8		ug/L		99	70 - 130	1	20
4-Isopropyltoluene			25.0	25.4		ug/L		102	70 - 130	2	20
Methylene Chloride			25.0	21.9		ug/L		88	70 - 147	0	20
4-Methyl-2-pentanone (MIBK)			125	106		ug/L		85	58 - 130	3	20
Naphthalene			25.0	23.4		ug/L		94	70 - 130	3	20
N-Propylbenzene			25.0	26.5		ug/L		106	70 - 130	3	20
Styrene			25.0	23.7		ug/L		95	70 - 130	0	20
1,1,1,2-Tetrachloroethane			25.0	23.5		ug/L		94	70 - 130	1	20
1,1,2,2-Tetrachloroethane			25.0	25.4		ug/L		101	70 - 130	1	20
Tetrachloroethene			25.0	24.5		ug/L		98	70 - 130	0	20
Toluene			25.0	25.5		ug/L		102	78 - 120	1	20
1,2,3-Trichlorobenzene			25.0	23.6		ug/L		94	70 - 130	3	20
1,2,4-Trichlorobenzene			25.0	24.7		ug/L		99	70 - 130	1	20
1,1,1-Trichloroethane			25.0	22.0		ug/L		88	70 - 130	1	20
1,1,2-Trichloroethane			25.0	23.4		ug/L		94	70 - 130	2	20
Trichloroethene			25.0	24.1		ug/L		96	70 - 130	0	20
Trichlorofluoromethane			25.0	23.5		ug/L		94	66 - 132	5	20
1,2,3-Trichloropropane			25.0	24.1		ug/L		97	70 - 130	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	22.0		ug/L		88	42 - 162	1	20
1,2,4-Trimethylbenzene			25.0	25.0		ug/L		100	70 - 132	2	20
1,3,5-Trimethylbenzene			25.0	25.1		ug/L		100	70 - 130	2	20
Vinyl acetate			25.0	22.3		ug/L		89	43 - 163	1	20
Vinyl chloride			25.0	25.5		ug/L		102	54 - 135	5	20
m-Xylene & p-Xylene			25.0	24.8		ug/L		99	70 - 142	1	20
o-Xylene			25.0	24.1		ug/L		96	70 - 130	0	20
2,2-Dichloropropane			25.0	26.1		ug/L		104	70 - 140	2	20

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

Lab Sample ID: LCSD 720-183918/6
Matrix: Water
Analysis Batch: 183918

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*82*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 720-183918/8
Matrix: Water
Analysis Batch: 183918

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	492		ug/L		98	62 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65549-1

GC/MS VOA

Analysis Batch: 183918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-65549-1	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-65549-2	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-65549-3	GAC	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-183918/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-183918/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-183918/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-183918/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-183918/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65549-1

Client Sample ID: INF
Date Collected: 06/18/15 09:10
Date Received: 06/18/15 17:00

Lab Sample ID: 720-65549-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	183918	06/19/15 16:47	PRD	TAL PLS

Client Sample ID: EFF
Date Collected: 06/18/15 09:15
Date Received: 06/18/15 17:00

Lab Sample ID: 720-65549-2
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	183918	06/19/15 17:17	PRD	TAL PLS

Client Sample ID: GAC
Date Collected: 06/18/15 09:12
Date Received: 06/18/15 17:00

Lab Sample ID: 720-65549-3
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	183918	06/19/15 17:47	PRD	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: 720-65549-1

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	01-31-16

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-65549-1

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: 720-65549-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-65549-1	INF	Water	06/18/15 09:10	06/18/15 17:00
720-65549-2	EFF	Water	06/18/15 09:15	06/18/15 17:00
720-65549-3	GAC	Water	06/18/15 09:12	06/18/15 17:00

TestAmerica
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720-65549

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

Reference #: 1618916

Date 6/18/15 Page 1 of 1

6/22/2015

Report To

Attn: Peter Sims
Company: Ninyo + Moore
Address: 1965 Webster Ste 400 Oak.
Email: psims@ninyoandmoore.com
Bill To: Peter Sims
Sampled By: Emily Dukker
Attn:
Phone:

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 ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Number of Containers
INF	6/18	0910	H2O	HCl	X		X																3
EFF	6/18	0915	H2O	HCl	X		X																3
GAC	6/18	0912	H2O	HCl	X		X																3

720-65549 Chain of Custody

Page 24 of 25

Project Info.

Project Name/ #: Chun 401896004
PO#:
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp: 1.7°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: [signature] Time: 1415	Signature: [signature] Time: 1700	Signature: Time:
Printed Name: Emily Dukker Date: 6/18/15	Printed Name: Gary Ecker Date: 6-18-15	Printed Name: Date:
Company: Ninyo and Moore	Company: TA	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1415	Signature: [signature] Time: 1700	Signature: Time:
Printed Name: Gary Ecker Date: 6-18-15	Printed Name: J Gonzales Date: 6/18/15	Printed Name: Date:
Company: TA	Company: TAP	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-65549-1

Login Number: 65549
List Number: 1
Creator: Gonzales, Justinn

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.	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

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ANALYTICAL REPORT

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

TestAmerica Job ID: 720-66081-1
Client Project/Site: Chun

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

Attn: Mr. Peter D. Sims

Authorized for release by:
7/21/2015 12:11:58 PM

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

Table of Contents

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: 720-66081-1

Job ID: 720-66081-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-66081-1

Comments
No additional comments.

Receipt
The samples were received on 7/16/2015 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º 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: 720-66081-1

Client Sample ID: INF — Lab Sample ID: 720-66081-1

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	6.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	2.0		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Chloroform	1.9		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	9.1		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	6.6		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	9.3		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	39		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	170		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	740		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: GAC — Lab Sample ID: 720-66081-2

No Detections.

Client Sample ID: EFF — Lab Sample ID: 720-66081-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-66081-1

Client Sample ID: INF
Date Collected: 07/16/15 14:11
Date Received: 07/16/15 19:00

Lab Sample ID: 720-66081-1
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	**0.84**		0.50		ug/L			07/18/15 19:21	1
Acetone	ND		50		ug/L			07/18/15 19:21	1
Benzene	**6.0**		0.50		ug/L			07/18/15 19:21	1
Dichlorobromomethane	ND		0.50		ug/L			07/18/15 19:21	1
Bromobenzene	ND		1.0		ug/L			07/18/15 19:21	1
Chlorobromomethane	ND		1.0		ug/L			07/18/15 19:21	1
Bromoform	ND		1.0		ug/L			07/18/15 19:21	1
Bromomethane	ND		1.0		ug/L			07/18/15 19:21	1
2-Butanone (MEK)	ND		50		ug/L			07/18/15 19:21	1
n-Butylbenzene	**2.0**		1.0		ug/L			07/18/15 19:21	1
sec-Butylbenzene	ND		1.0		ug/L			07/18/15 19:21	1
tert-Butylbenzene	ND		1.0		ug/L			07/18/15 19:21	1
Carbon disulfide	ND		5.0		ug/L			07/18/15 19:21	1
Carbon tetrachloride	ND		0.50		ug/L			07/18/15 19:21	1
Chlorobenzene	ND		0.50		ug/L			07/18/15 19:21	1
Chloroethane	ND		1.0		ug/L			07/18/15 19:21	1
Chloroform	**1.9**		1.0		ug/L			07/18/15 19:21	1
Chloromethane	ND		1.0		ug/L			07/18/15 19:21	1
2-Chlorotoluene	ND		0.50		ug/L			07/18/15 19:21	1
4-Chlorotoluene	ND		0.50		ug/L			07/18/15 19:21	1
Chlorodibromomethane	ND		0.50		ug/L			07/18/15 19:21	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/18/15 19:21	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/18/15 19:21	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/18/15 19:21	1
1,3-Dichloropropane	ND		1.0		ug/L			07/18/15 19:21	1
1,1-Dichloropropene	ND		0.50		ug/L			07/18/15 19:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			07/18/15 19:21	1
Ethylene Dibromide	ND		0.50		ug/L			07/18/15 19:21	1
Dibromomethane	ND		0.50		ug/L			07/18/15 19:21	1
Dichlorodifluoromethane	ND		0.50		ug/L			07/18/15 19:21	1
1,1-Dichloroethane	ND		0.50		ug/L			07/18/15 19:21	1
1,2-Dichloroethane	ND		0.50		ug/L			07/18/15 19:21	1
1,1-Dichloroethene	ND		0.50		ug/L			07/18/15 19:21	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			07/18/15 19:21	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			07/18/15 19:21	1
1,2-Dichloropropane	ND		0.50		ug/L			07/18/15 19:21	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/18/15 19:21	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/18/15 19:21	1
Ethylbenzene	ND		0.50		ug/L			07/18/15 19:21	1
Hexachlorobutadiene	ND		1.0		ug/L			07/18/15 19:21	1
2-Hexanone	ND		50		ug/L			07/18/15 19:21	1
Isopropylbenzene	ND		0.50		ug/L			07/18/15 19:21	1
4-Isopropyltoluene	ND		1.0		ug/L			07/18/15 19:21	1
Methylene Chloride	ND		5.0		ug/L			07/18/15 19:21	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/18/15 19:21	1
Naphthalene	**9.1**		1.0		ug/L			07/18/15 19:21	1
N-Propylbenzene	ND		1.0		ug/L			07/18/15 19:21	1
Styrene	ND		0.50		ug/L			07/18/15 19:21	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			07/18/15 19:21	1

Client Sample ID: INF
Date Collected: 07/16/15 14:11
Date Received: 07/16/15 19:00

Lab Sample ID: 720-66081-1
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			07/18/15 19:21	1
Tetrachloroethene	ND		0.50		ug/L			07/18/15 19:21	1
Toluene	**6.6**		0.50		ug/L			07/18/15 19:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/18/15 19:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/18/15 19:21	1
1,1,1-Trichloroethane	ND		0.50		ug/L			07/18/15 19:21	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/18/15 19:21	1
Trichloroethene	ND		0.50		ug/L			07/18/15 19:21	1
Trichlorofluoromethane	ND		1.0		ug/L			07/18/15 19:21	1
1,2,3-Trichloropropane	ND		0.50		ug/L			07/18/15 19:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			07/18/15 19:21	1
1,2,4-Trimethylbenzene	**9.3**		0.50		ug/L			07/18/15 19:21	1
1,3,5-Trimethylbenzene	**39**		0.50		ug/L			07/18/15 19:21	1
Vinyl acetate	ND		10		ug/L			07/18/15 19:21	1
Vinyl chloride	ND		0.50		ug/L			07/18/15 19:21	1
Xylenes, Total	**170**		1.0		ug/L			07/18/15 19:21	1
2,2-Dichloropropane	ND		0.50		ug/L			07/18/15 19:21	1
Gasoline Range Organics (GRO) -C5-C12	**740**		50		ug/L			07/18/15 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*07/18/15 19:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*		*07/18/15 19:21*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/18/15 19:21*	*1*

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-66081-1

Client Sample ID: GAC
Date Collected: 07/16/15 14:12
Date Received: 07/16/15 19:00

Lab Sample ID: 720-66081-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/18/15 18:52	1
Acetone	ND		50		ug/L			07/18/15 18:52	1
Benzene	ND		0.50		ug/L			07/18/15 18:52	1
Dichlorobromomethane	ND		0.50		ug/L			07/18/15 18:52	1
Bromobenzene	ND		1.0		ug/L			07/18/15 18:52	1
Chlorobromomethane	ND		1.0		ug/L			07/18/15 18:52	1
Bromoform	ND		1.0		ug/L			07/18/15 18:52	1
Bromomethane	ND		1.0		ug/L			07/18/15 18:52	1
2-Butanone (MEK)	ND		50		ug/L			07/18/15 18:52	1
n-Butylbenzene	ND		1.0		ug/L			07/18/15 18:52	1
sec-Butylbenzene	ND		1.0		ug/L			07/18/15 18:52	1
tert-Butylbenzene	ND		1.0		ug/L			07/18/15 18:52	1
Carbon disulfide	ND		5.0		ug/L			07/18/15 18:52	1
Carbon tetrachloride	ND		0.50		ug/L			07/18/15 18:52	1
Chlorobenzene	ND		0.50		ug/L			07/18/15 18:52	1
Chloroethane	ND		1.0		ug/L			07/18/15 18:52	1
Chloroform	ND		1.0		ug/L			07/18/15 18:52	1
Chloromethane	ND		1.0		ug/L			07/18/15 18:52	1
2-Chlorotoluene	ND		0.50		ug/L			07/18/15 18:52	1
4-Chlorotoluene	ND		0.50		ug/L			07/18/15 18:52	1
Chlorodibromomethane	ND		0.50		ug/L			07/18/15 18:52	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/18/15 18:52	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/18/15 18:52	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/18/15 18:52	1
1,3-Dichloropropane	ND		1.0		ug/L			07/18/15 18:52	1
1,1-Dichloropropene	ND		0.50		ug/L			07/18/15 18:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			07/18/15 18:52	1
Ethylene Dibromide	ND		0.50		ug/L			07/18/15 18:52	1
Dibromomethane	ND		0.50		ug/L			07/18/15 18:52	1
Dichlorodifluoromethane	ND		0.50		ug/L			07/18/15 18:52	1
1,1-Dichloroethane	ND		0.50		ug/L			07/18/15 18:52	1
1,2-Dichloroethane	ND		0.50		ug/L			07/18/15 18:52	1
1,1-Dichloroethene	ND		0.50		ug/L			07/18/15 18:52	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			07/18/15 18:52	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			07/18/15 18:52	1
1,2-Dichloropropane	ND		0.50		ug/L			07/18/15 18:52	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/18/15 18:52	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/18/15 18:52	1
Ethylbenzene	ND		0.50		ug/L			07/18/15 18:52	1
Hexachlorobutadiene	ND		1.0		ug/L			07/18/15 18:52	1
2-Hexanone	ND		50		ug/L			07/18/15 18:52	1
Isopropylbenzene	ND		0.50		ug/L			07/18/15 18:52	1
4-Isopropyltoluene	ND		1.0		ug/L			07/18/15 18:52	1
Methylene Chloride	ND		5.0		ug/L			07/18/15 18:52	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/18/15 18:52	1
Naphthalene	ND		1.0		ug/L			07/18/15 18:52	1
N-Propylbenzene	ND		1.0		ug/L			07/18/15 18:52	1
Styrene	ND		0.50		ug/L			07/18/15 18:52	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			07/18/15 18:52	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-66081-1

Client Sample ID: GAC
Date Collected: 07/16/15 14:12
Date Received: 07/16/15 19:00

Lab Sample ID: 720-66081-2
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			07/18/15 18:52	1
Tetrachloroethene	ND		0.50		ug/L			07/18/15 18:52	1
Toluene	ND		0.50		ug/L			07/18/15 18:52	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/18/15 18:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/18/15 18:52	1
1,1,1-Trichloroethane	ND		0.50		ug/L			07/18/15 18:52	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/18/15 18:52	1
Trichloroethene	ND		0.50		ug/L			07/18/15 18:52	1
Trichlorofluoromethane	ND		1.0		ug/L			07/18/15 18:52	1
1,2,3-Trichloropropane	ND		0.50		ug/L			07/18/15 18:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			07/18/15 18:52	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			07/18/15 18:52	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			07/18/15 18:52	1
Vinyl acetate	ND		10		ug/L			07/18/15 18:52	1
Vinyl chloride	ND		0.50		ug/L			07/18/15 18:52	1
Xylenes, Total	ND		1.0		ug/L			07/18/15 18:52	1
2,2-Dichloropropane	ND		0.50		ug/L			07/18/15 18:52	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/18/15 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*07/18/15 18:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*		*07/18/15 18:52*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/18/15 18:52*	*1*

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-66081-1

Client Sample ID: EFF
Date Collected: 07/16/15 14:13
Date Received: 07/16/15 19:00

Lab Sample ID: 720-66081-3
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			07/18/15 15:56	1
Acetone	ND		50		ug/L			07/18/15 15:56	1
Benzene	ND		0.50		ug/L			07/18/15 15:56	1
Dichlorobromomethane	ND		0.50		ug/L			07/18/15 15:56	1
Bromobenzene	ND		1.0		ug/L			07/18/15 15:56	1
Chlorobromomethane	ND		1.0		ug/L			07/18/15 15:56	1
Bromoform	ND		1.0		ug/L			07/18/15 15:56	1
Bromomethane	ND		1.0		ug/L			07/18/15 15:56	1
2-Butanone (MEK)	ND		50		ug/L			07/18/15 15:56	1
n-Butylbenzene	ND		1.0		ug/L			07/18/15 15:56	1
sec-Butylbenzene	ND		1.0		ug/L			07/18/15 15:56	1
tert-Butylbenzene	ND		1.0		ug/L			07/18/15 15:56	1
Carbon disulfide	ND		5.0		ug/L			07/18/15 15:56	1
Carbon tetrachloride	ND		0.50		ug/L			07/18/15 15:56	1
Chlorobenzene	ND		0.50		ug/L			07/18/15 15:56	1
Chloroethane	ND		1.0		ug/L			07/18/15 15:56	1
Chloroform	ND		1.0		ug/L			07/18/15 15:56	1
Chloromethane	ND		1.0		ug/L			07/18/15 15:56	1
2-Chlorotoluene	ND		0.50		ug/L			07/18/15 15:56	1
4-Chlorotoluene	ND		0.50		ug/L			07/18/15 15:56	1
Chlorodibromomethane	ND		0.50		ug/L			07/18/15 15:56	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/18/15 15:56	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/18/15 15:56	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/18/15 15:56	1
1,3-Dichloropropane	ND		1.0		ug/L			07/18/15 15:56	1
1,1-Dichloropropene	ND		0.50		ug/L			07/18/15 15:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			07/18/15 15:56	1
Ethylene Dibromide	ND		0.50		ug/L			07/18/15 15:56	1
Dibromomethane	ND		0.50		ug/L			07/18/15 15:56	1
Dichlorodifluoromethane	ND		0.50		ug/L			07/18/15 15:56	1
1,1-Dichloroethane	ND		0.50		ug/L			07/18/15 15:56	1
1,2-Dichloroethane	ND		0.50		ug/L			07/18/15 15:56	1
1,1-Dichloroethene	ND		0.50		ug/L			07/18/15 15:56	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			07/18/15 15:56	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			07/18/15 15:56	1
1,2-Dichloropropane	ND		0.50		ug/L			07/18/15 15:56	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/18/15 15:56	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/18/15 15:56	1
Ethylbenzene	ND		0.50		ug/L			07/18/15 15:56	1
Hexachlorobutadiene	ND		1.0		ug/L			07/18/15 15:56	1
2-Hexanone	ND		50		ug/L			07/18/15 15:56	1
Isopropylbenzene	ND		0.50		ug/L			07/18/15 15:56	1
4-Isopropyltoluene	ND		1.0		ug/L			07/18/15 15:56	1
Methylene Chloride	ND		5.0		ug/L			07/18/15 15:56	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/18/15 15:56	1
Naphthalene	ND		1.0		ug/L			07/18/15 15:56	1
N-Propylbenzene	ND		1.0		ug/L			07/18/15 15:56	1
Styrene	ND		0.50		ug/L			07/18/15 15:56	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			07/18/15 15:56	1

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-66081-1

Client Sample ID: EFF
Date Collected: 07/16/15 14:13
Date Received: 07/16/15 19:00

Lab Sample ID: 720-66081-3
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			07/18/15 15:56	1
Tetrachloroethene	ND		0.50		ug/L			07/18/15 15:56	1
Toluene	ND		0.50		ug/L			07/18/15 15:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/18/15 15:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/18/15 15:56	1
1,1,1-Trichloroethane	ND		0.50		ug/L			07/18/15 15:56	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/18/15 15:56	1
Trichloroethene	ND		0.50		ug/L			07/18/15 15:56	1
Trichlorofluoromethane	ND		1.0		ug/L			07/18/15 15:56	1
1,2,3-Trichloropropane	ND		0.50		ug/L			07/18/15 15:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			07/18/15 15:56	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			07/18/15 15:56	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			07/18/15 15:56	1
Vinyl acetate	ND		10		ug/L			07/18/15 15:56	1
Vinyl chloride	ND		0.50		ug/L			07/18/15 15:56	1
Xylenes, Total	ND		1.0		ug/L			07/18/15 15:56	1
2,2-Dichloropropane	ND		0.50		ug/L			07/18/15 15:56	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/18/15 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*		*07/18/15 15:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*		*07/18/15 15:56*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/18/15 15:56*	*1*

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-66081-1

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)
720-66081-1	INF	101	98	101
720-66081-2	GAC	95	101	98
720-66081-3	EFF	100	97	101
LCS 720-185405/6	Lab Control Sample	95	93	102
LCS 720-185405/8	Lab Control Sample	97	94	100
LCSD 720-185405/7	Lab Control Sample Dup	96	92	100
LCSD 720-185405/9	Lab Control Sample Dup	100	99	101
MB 720-185405/5	Method Blank	97	98	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 720-185405/5
Matrix: Water
Analysis Batch: 185405

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			07/18/15 11:01	1
Acetone	ND		50		ug/L			07/18/15 11:01	1
Benzene	ND		0.50		ug/L			07/18/15 11:01	1
Dichlorobromomethane	ND		0.50		ug/L			07/18/15 11:01	1
Bromobenzene	ND		1.0		ug/L			07/18/15 11:01	1
Chlorobromomethane	ND		1.0		ug/L			07/18/15 11:01	1
Bromoform	ND		1.0		ug/L			07/18/15 11:01	1
Bromomethane	ND		1.0		ug/L			07/18/15 11:01	1
2-Butanone (MEK)	ND		50		ug/L			07/18/15 11:01	1
n-Butylbenzene	ND		1.0		ug/L			07/18/15 11:01	1
sec-Butylbenzene	ND		1.0		ug/L			07/18/15 11:01	1
tert-Butylbenzene	ND		1.0		ug/L			07/18/15 11:01	1
Carbon disulfide	ND		5.0		ug/L			07/18/15 11:01	1
Carbon tetrachloride	ND		0.50		ug/L			07/18/15 11:01	1
Chlorobenzene	ND		0.50		ug/L			07/18/15 11:01	1
Chloroethane	ND		1.0		ug/L			07/18/15 11:01	1
Chloroform	ND		1.0		ug/L			07/18/15 11:01	1
Chloromethane	ND		1.0		ug/L			07/18/15 11:01	1
2-Chlorotoluene	ND		0.50		ug/L			07/18/15 11:01	1
4-Chlorotoluene	ND		0.50		ug/L			07/18/15 11:01	1
Chlorodibromomethane	ND		0.50		ug/L			07/18/15 11:01	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/18/15 11:01	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/18/15 11:01	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/18/15 11:01	1
1,3-Dichloropropane	ND		1.0		ug/L			07/18/15 11:01	1
1,1-Dichloropropene	ND		0.50		ug/L			07/18/15 11:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			07/18/15 11:01	1
Ethylene Dibromide	ND		0.50		ug/L			07/18/15 11:01	1
Dibromomethane	ND		0.50		ug/L			07/18/15 11:01	1
Dichlorodifluoromethane	ND		0.50		ug/L			07/18/15 11:01	1
1,1-Dichloroethane	ND		0.50		ug/L			07/18/15 11:01	1
1,2-Dichloroethane	ND		0.50		ug/L			07/18/15 11:01	1
1,1-Dichloroethene	ND		0.50		ug/L			07/18/15 11:01	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			07/18/15 11:01	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			07/18/15 11:01	1
1,2-Dichloropropane	ND		0.50		ug/L			07/18/15 11:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/18/15 11:01	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/18/15 11:01	1
Ethylbenzene	ND		0.50		ug/L			07/18/15 11:01	1
Hexachlorobutadiene	ND		1.0		ug/L			07/18/15 11:01	1
2-Hexanone	ND		50		ug/L			07/18/15 11:01	1
Isopropylbenzene	ND		0.50		ug/L			07/18/15 11:01	1
4-Isopropyltoluene	ND		1.0		ug/L			07/18/15 11:01	1
Methylene Chloride	ND		5.0		ug/L			07/18/15 11:01	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/18/15 11:01	1
Naphthalene	ND		1.0		ug/L			07/18/15 11:01	1
N-Propylbenzene	ND		1.0		ug/L			07/18/15 11:01	1
Styrene	ND		0.50		ug/L			07/18/15 11:01	1

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

Lab Sample ID: MB 720-185405/5
Matrix: Water
Analysis Batch: 185405

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			07/18/15 11:01	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/18/15 11:01	1
Tetrachloroethene	ND		0.50		ug/L			07/18/15 11:01	1
Toluene	ND		0.50		ug/L			07/18/15 11:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/18/15 11:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/18/15 11:01	1
1,1,1-Trichloroethane	ND		0.50		ug/L			07/18/15 11:01	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/18/15 11:01	1
Trichloroethene	ND		0.50		ug/L			07/18/15 11:01	1
Trichlorofluoromethane	ND		1.0		ug/L			07/18/15 11:01	1
1,2,3-Trichloropropane	ND		0.50		ug/L			07/18/15 11:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			07/18/15 11:01	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			07/18/15 11:01	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			07/18/15 11:01	1
Vinyl acetate	ND		10		ug/L			07/18/15 11:01	1
Vinyl chloride	ND		0.50		ug/L			07/18/15 11:01	1
Xylenes, Total	ND		1.0		ug/L			07/18/15 11:01	1
2,2-Dichloropropane	ND		0.50		ug/L			07/18/15 11:01	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/18/15 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*07/18/15 11:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*		*07/18/15 11:01*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/18/15 11:01*	*1*

Lab Sample ID: LCS 720-185405/6
Matrix: Water
Analysis Batch: 185405

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	25.8		ug/L		103	62 - 130
Acetone	125	115		ug/L		92	26 - 180
Benzene	25.0	25.5		ug/L		102	79 - 130
Dichlorobromomethane	25.0	26.3		ug/L		105	70 - 130
Bromobenzene	25.0	27.3		ug/L		109	70 - 130
Chlorobromomethane	25.0	27.9		ug/L		112	70 - 130
Bromoform	25.0	29.1		ug/L		116	68 - 136
Bromomethane	25.0	26.2		ug/L		105	43 - 151
2-Butanone (MEK)	125	126		ug/L		101	54 - 130
n-Butylbenzene	25.0	27.1		ug/L		108	70 - 142
sec-Butylbenzene	25.0	26.6		ug/L		106	70 - 134
tert-Butylbenzene	25.0	26.8		ug/L		107	70 - 135
Carbon disulfide	25.0	26.2		ug/L		105	58 - 130
Carbon tetrachloride	25.0	28.4		ug/L		114	70 - 146
Chlorobenzene	25.0	25.5		ug/L		102	70 - 130
Chloroethane	25.0	22.5		ug/L		90	62 - 138
Chloroform	25.0	26.3		ug/L		105	70 - 130

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

Lab Sample ID: LCS 720-185405/6
Matrix: Water
Analysis Batch: 185405

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	17.5		ug/L		70	52 - 175
2-Chlorotoluene	25.0	26.2		ug/L		105	70 - 130
4-Chlorotoluene	25.0	26.1		ug/L		104	70 - 130
Chlorodibromomethane	25.0	28.9		ug/L		116	70 - 145
1,2-Dichlorobenzene	25.0	26.4		ug/L		106	70 - 130
1,3-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130
1,4-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130
1,3-Dichloropropane	25.0	25.7		ug/L		103	70 - 130
1,1-Dichloropropene	25.0	28.2		ug/L		113	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	28.7		ug/L		115	70 - 136
Ethylene Dibromide	25.0	28.4		ug/L		114	70 - 130
Dibromomethane	25.0	26.8		ug/L		107	70 - 130
Dichlorodifluoromethane	25.0	21.3		ug/L		85	34 - 132
1,1-Dichloroethane	25.0	24.9		ug/L		100	70 - 130
1,2-Dichloroethane	25.0	24.4		ug/L		98	61 - 132
1,1-Dichloroethene	25.0	23.9		ug/L		96	64 - 128
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	68 - 130
1,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 130
cis-1,3-Dichloropropene	25.0	27.1		ug/L		108	70 - 130
trans-1,3-Dichloropropene	25.0	30.2		ug/L		121	70 - 140
Ethylbenzene	25.0	25.7		ug/L		103	80 - 120
Hexachlorobutadiene	25.0	27.4		ug/L		110	70 - 130
2-Hexanone	125	106		ug/L		85	60 - 164
Isopropylbenzene	25.0	26.4		ug/L		106	70 - 130
4-Isopropyltoluene	25.0	26.9		ug/L		108	70 - 130
Methylene Chloride	25.0	27.5		ug/L		110	70 - 147
4-Methyl-2-pentanone (MIBK)	125	105		ug/L		84	58 - 130
Naphthalene	25.0	26.2		ug/L		105	70 - 130
N-Propylbenzene	25.0	26.6		ug/L		106	70 - 130
Styrene	25.0	24.9		ug/L		100	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.5		ug/L		102	70 - 130
Tetrachloroethene	25.0	29.3		ug/L		117	70 - 130
Toluene	25.0	25.5		ug/L		102	78 - 120
1,2,3-Trichlorobenzene	25.0	26.7		ug/L		107	70 - 130
1,2,4-Trichlorobenzene	25.0	27.2		ug/L		109	70 - 130
1,1,1-Trichloroethane	25.0	27.9		ug/L		112	70 - 130
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	70 - 130
Trichloroethene	25.0	27.8		ug/L		111	70 - 130
Trichlorofluoromethane	25.0	25.0		ug/L		100	66 - 132
1,2,3-Trichloropropane	25.0	27.9		ug/L		111	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.9		ug/L		112	42 - 162
1,2,4-Trimethylbenzene	25.0	26.4		ug/L		106	70 - 132
1,3,5-Trimethylbenzene	25.0	26.6		ug/L		106	70 - 130
Vinyl acetate	25.0	20.0		ug/L		80	43 - 163
Vinyl chloride	25.0	22.3		ug/L		89	54 - 135

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

Lab Sample ID: LCS 720-185405/6
Matrix: Water
Analysis Batch: 185405

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	26.1		ug/L		104	70 - 142
o-Xylene	25.0	25.7		ug/L		103	70 - 130
2,2-Dichloropropane	25.0	33.1		ug/L		133	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCS 720-185405/8
Matrix: Water
Analysis Batch: 185405

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	461		ug/L		92	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 720-185405/7
Matrix: Water
Analysis Batch: 185405

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	24.9		ug/L		100	62 - 130	4	20
Acetone	125	108		ug/L		86	26 - 180	6	30
Benzene	25.0	25.7		ug/L		103	79 - 130	1	20
Dichlorobromomethane	25.0	26.0		ug/L		104	70 - 130	1	20
Bromobenzene	25.0	27.2		ug/L		109	70 - 130	0	20
Chlorobromomethane	25.0	27.1		ug/L		108	70 - 130	3	20
Bromoform	25.0	28.6		ug/L		114	68 - 136	2	20
Bromomethane	25.0	26.4		ug/L		106	43 - 151	1	20
2-Butanone (MEK)	125	123		ug/L		98	54 - 130	3	20
n-Butylbenzene	25.0	27.8		ug/L		111	70 - 142	2	20
sec-Butylbenzene	25.0	27.4		ug/L		109	70 - 134	3	20
tert-Butylbenzene	25.0	27.2		ug/L		109	70 - 135	2	20
Carbon disulfide	25.0	26.6		ug/L		106	58 - 130	1	20
Carbon tetrachloride	25.0	28.9		ug/L		115	70 - 146	1	20
Chlorobenzene	25.0	26.0		ug/L		104	70 - 130	2	20
Chloroethane	25.0	23.3		ug/L		93	62 - 138	3	20
Chloroform	25.0	26.3		ug/L		105	70 - 130	0	20
Chloromethane	25.0	18.0		ug/L		72	52 - 175	3	20
2-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130	1	20
4-Chlorotoluene	25.0	26.6		ug/L		106	70 - 130	2	20
Chlorodibromomethane	25.0	28.1		ug/L		113	70 - 145	3	20

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

Lab Sample ID: LCSD 720-185405/7
Matrix: Water
Analysis Batch: 185405

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene			25.0	26.7		ug/L		107	70 - 130	1	20
1,3-Dichlorobenzene			25.0	27.2		ug/L		109	70 - 130	1	20
1,4-Dichlorobenzene			25.0	26.8		ug/L		107	70 - 130	1	20
1,3-Dichloropropane			25.0	24.7		ug/L		99	70 - 130	4	20
1,1-Dichloropropene			25.0	28.6		ug/L		114	70 - 130	2	20
1,2-Dibromo-3-Chloropropane			25.0	27.6		ug/L		110	70 - 136	4	20
Ethylene Dibromide			25.0	27.5		ug/L		110	70 - 130	3	20
Dibromomethane			25.0	26.1		ug/L		104	70 - 130	3	20
Dichlorodifluoromethane			25.0	22.1		ug/L		88	34 - 132	4	20
1,1-Dichloroethane			25.0	25.1		ug/L		100	70 - 130	1	20
1,2-Dichloroethane			25.0	23.7		ug/L		95	61 - 132	3	20
1,1-Dichloroethene			25.0	24.0		ug/L		96	64 - 128	1	20
cis-1,2-Dichloroethene			25.0	24.8		ug/L		99	70 - 130	1	20
trans-1,2-Dichloroethene			25.0	25.9		ug/L		104	68 - 130	1	20
1,2-Dichloropropane			25.0	24.4		ug/L		97	70 - 130	0	20
cis-1,3-Dichloropropene			25.0	26.8		ug/L		107	70 - 130	1	20
trans-1,3-Dichloropropene			25.0	29.0		ug/L		116	70 - 140	4	20
Ethylbenzene			25.0	26.7		ug/L		107	80 - 120	4	20
Hexachlorobutadiene			25.0	28.9		ug/L		116	70 - 130	5	20
2-Hexanone			125	98.9		ug/L		79	60 - 164	7	20
Isopropylbenzene			25.0	27.2		ug/L		109	70 - 130	3	20
4-Isopropyltoluene			25.0	27.7		ug/L		111	70 - 130	3	20
Methylene Chloride			25.0	27.4		ug/L		109	70 - 147	0	20
4-Methyl-2-pentanone (MIBK)			125	97.6		ug/L		78	58 - 130	7	20
Naphthalene			25.0	26.0		ug/L		104	70 - 130	1	20
N-Propylbenzene			25.0	27.1		ug/L		108	70 - 130	2	20
Styrene			25.0	25.3		ug/L		101	70 - 130	2	20
1,1,1,2-Tetrachloroethane			25.0	27.1		ug/L		108	70 - 130	0	20
1,1,2,2-Tetrachloroethane			25.0	24.7		ug/L		99	70 - 130	3	20
Tetrachloroethene			25.0	29.4		ug/L		118	70 - 130	0	20
Toluene			25.0	26.3		ug/L		105	78 - 120	3	20
1,2,3-Trichlorobenzene			25.0	26.9		ug/L		107	70 - 130	1	20
1,2,4-Trichlorobenzene			25.0	27.7		ug/L		111	70 - 130	2	20
1,1,1-Trichloroethane			25.0	27.9		ug/L		112	70 - 130	0	20
1,1,2-Trichloroethane			25.0	25.2		ug/L		101	70 - 130	1	20
Trichloroethene			25.0	28.1		ug/L		112	70 - 130	1	20
Trichlorofluoromethane			25.0	25.2		ug/L		101	66 - 132	1	20
1,2,3-Trichloropropane			25.0	27.1		ug/L		108	70 - 130	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	28.4		ug/L		114	42 - 162	2	20
1,2,4-Trimethylbenzene			25.0	26.9		ug/L		108	70 - 132	2	20
1,3,5-Trimethylbenzene			25.0	27.3		ug/L		109	70 - 130	3	20
Vinyl acetate			25.0	19.5		ug/L		78	43 - 163	3	20
Vinyl chloride			25.0	23.0		ug/L		92	54 - 135	3	20
m-Xylene & p-Xylene			25.0	26.7		ug/L		107	70 - 142	2	20
o-Xylene			25.0	26.2		ug/L		105	70 - 130	2	20
2,2-Dichloropropane			25.0	32.6		ug/L		130	70 - 140	2	20

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

Lab Sample ID: LCSD 720-185405/7
Matrix: Water
Analysis Batch: 185405

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 720-185405/9
Matrix: Water
Analysis Batch: 185405

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	465		ug/L		93	62 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-66081-1

GC/MS VOA

Analysis Batch: 185405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-66081-1	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-66081-2	GAC	Total/NA	Water	8260B/CA_LUFT MS	
720-66081-3	EFF	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-185405/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-185405/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-185405/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-185405/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-185405/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-66081-1

Client Sample ID: INF
Date Collected: 07/16/15 14:11
Date Received: 07/16/15 19:00

Lab Sample ID: 720-66081-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	185405	07/18/15 19:21	ASC	TAL PLS

Client Sample ID: GAC
Date Collected: 07/16/15 14:12
Date Received: 07/16/15 19:00

Lab Sample ID: 720-66081-2
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	185405	07/18/15 18:52	ASC	TAL PLS

Client Sample ID: EFF
Date Collected: 07/16/15 14:13
Date Received: 07/16/15 19:00

Lab Sample ID: 720-66081-3
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	185405	07/18/15 15:56	ASC	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: 720-66081-1

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	01-31-16

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-66081-1

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: 720-66081-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-66081-1	INF	Water	07/16/15 14:11	07/16/15 19:00
720-66081-2	GAC	Water	07/16/15 14:12	07/16/15 19:00
720-66081-3	EFF	Water	07/16/15 14:13	07/16/15 19:00

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-66081

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

Reference #: 162438

Date 7-16-15 Page 1 of 1

Report To

Attn: Peter Sims
Company: Ninyo & Moore
Address: 1956 Webster Street, Ste 400
Email: psims@ninyoandmoore.com
Bill To: Peter Sims
Sampled By: Peter Sims
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 ☐ SO4 ☐ NO3 ☐ F ☐ Br ☐ NO2 ☐ PO4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
INF	7/16/15	1411	Water	HCl	X		X																		3
GAC	7/16/15	1412	↓	↓	X		X																		3
EFF	7/16/15	1413	↓	↓	X		X																		3

720-66081 Chain of Custody

Project Info.

Project Name/ #: 401896004, Chun
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp: 2.7°C

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

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☒ EDD ☐ EDF ☐ Global ID

Special Instructions / Comments:

See Terms and Conditions on reverse

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Peter Sims / 1515	[signature] / 1600	
Printed Name / Date	Peter Sims / 7-16-15	Gary Evans / 7-16-15	
Company	Ninyo & Moore	TA	

	1) Received by:	2) Received by:	3) Received by:
Signature / Time	[signature] / 1512	[signature] / 1900	
Printed Name / Date	Gary Evans / 7-16-15	J Gonzales / 7/16/15	
Company	TA	TAP	

Rev.10/2012

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-66081-1

Login Number: 66081
List Number: 1
Creator: Gonzales, Justinn

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.	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: 6/11/2015

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: ERD	

Note: All measurements from top of casing. Well Location: MW-4R

WELL NO.	Depth to Liquid (DL):
Casing Material: PVC	Depth to Water (DW1): 9.08
Diameter: 2"	Product Thickness (PT=DW1-DL):
Well Head Condition:	Total Well Depth (TD): 29.18
Well Box Condition:	Total head (TH=TD-DW1):
Purge Method:	Casing Volume (TH*Factor): 10.1
Casing Vol. Conv. Factors: **2" = 0.16**; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	9.648

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
8:32	3 gal	19.97	653	~~9~~ ~~4.46~~	8.25	229	14.1	0.418 g/L TDS
8:51	6 gal	19.80	[redacted]	~~9~~ ~~4.06~~	7.94	171	6.45	630 µS/cm
9:04	9 gal	20.25	639	~~9~~ ~~4.48~~	3.62	196	0.28	
				6.90				

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

pH 6.90 taken Jun 22

MONITORING WELL SAMPLING FORM	Date: 6/11/2015

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:	

Note: All measurements from top of casing. Well Location: MW-5R

WELL NO.	Depth to Liquid (DL):
Casing Material: PVC	Depth to Water (DW1): 7.835
Diameter: 2"	Product Thickness (PT=DW1-DL):
Well Head Condition:	Total Well Depth (TD): 23.79
Well Box Condition:	Total head (TH=TD-DW1): 15.955
Purge Method:	Casing Volume (TH*Factor): 2.558
Casing Vol. Conv. Factors: **2" = 0.16**; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	7.45 purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
9:31	1.5	20.19	741	4.46	3.58	42	231	
9:37	3	20.27	775	4.73	3.40	-107	31.9	
9:44	4.5	20.33	557	4.76	4.44	-96	54.9	
9:59	6	20.40	400	4.46	48.0	-52	49.9	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

Water is brown and has distinct hydrocarbon odor
pH 7.03, taken 6/22

MONITORING WELL SAMPLING FORM	Date: 6/11/2015

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: ERD	

Note: All measurements from top of casing. Well Location: MW-6R

WELL NO.	Depth to Liquid (DL):
Casing Material: PVC	Depth to Water (DW1): 7.78
Diameter: 2"	Product Thickness (PT=DW1-DL):
Well Head Condition:	Total Well Depth (TD): 25.18
Well Box Condition:	Total head (TH=TD-DW1): 17.4
Purge Method:	Casing Volume (TH*Factor): 2.784
Casing Vol. Conv. Factors: **2" = 0.16**; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	purge 8.35

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
10:22	2	21.04	1280 ~~804.55~~		2.27	149	4.92	
10:31	4	21.18	1240 ~~804.50~~		2.73	144	4.07	
10:39	6	21.38	1140 ~~824.50~~		3.03	135	2.47	
10:47	8	21.56	975 ~~824.55~~		2.98	121	2.05	

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
1100											

Additional Comments

100# well cap
pH 6.85 6/22

MONITORING WELL SAMPLING FORM	Date: 6/11/2015

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:	

Note: All measurements from top of casing. Well Location: MW-7R

WELL NO.	Depth to Liquid (DL):
Casing Material: PVC	Depth to Water (DW1): 7.84
Diameter: 2"	Product Thickness (PT=DW1-DL):
Well Head Condition:	Total Well Depth (TD): 25.28
Well Box Condition:	Total head (TH=TD-DW1): 17.44
Purge Method:	Casing Volume (TH*Factor): 2.79

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 x = 8.3 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
13:11	2	24.85	895	4.69	1.97	-54	94.2	
1322	4	24.43	902	4.06	1.96	-42	7.07	
1332	6	23.61	921	4.61	1.88	-24	7.24	
1342	8	22.96	943	4.59	1.89	-24	11.9	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

loose cap
pH 6.14 6/22

MONITORING WELL SAMPLING FORM	Date: 6-11-15

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: Peter Sims / Emily Dilksen	

Note: All measurements from top of casing. Well Location: MW-8

WELL NO. MW-8	Depth to Liquid (DL): 8.34	
Casing Material: PVC	Depth to Water (DW1): 8.34	
Diameter: 2"	Product Thickness (PT=DW1-DL): 0.00	
Well Head Condition: good	Total Well Depth (TD): 14.26	
Well Box Condition: good	Total head (TH=TD-DW1): 5.92	
Purge Method:	Casing Volume (TH*Factor): 0.95	x3 = 2.84
Casing Vol. Conv. Factors: **2" = 0.16**; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1415	1	25.95	0	~~4.72~~	5.53	-4	31	
1417	2	25.98	1	~~4.84~~	5.52	5	249	
1420	3	25.27	240	~~4.44~~	2.35	-88	249	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

pH 4.65 6/22 ED

MONITORING WELL SAMPLING FORM

Date: 6-11-15

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: Peter Sims / Emily Pirkson	

Note: All measurements from top of casing.

Well Location: MW-9

WELL NO. MW-9	Depth to Liquid (DL): 7.59
Casing Material: PVC	Depth to Water (DW1): 7.59
Diameter: 2"	Product Thickness (PT=DW1-DL): 0.00
Well Head Condition: Good	Total Well Depth (TD): 15.06
Well Box Condition: Good	Total head (TH=TD-DW1): 7.47
Purge Method:	Casing Volume (TH*Factor): 1.19 x 3 = 3.59
Casing Vol. Conv. Factors: **2" = 0.16**; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1456	1	25.68	276	~~9~~ 4.44	2.78	-38	134	
1458	2	26.59	0	~~8~~ 4.07	3.18	96	19	
1500	3	25.27	102	~~9~~ 4.44	5.54	84	814	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

pH 4.92 4/22 ~~9~~ 4

MONITORING WELL SAMPLING FORM

Date: 6/11/15

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: Peter Sims/Emily Dirksen	

Note: All measurements from top of casing.

Well Location: mw-10

WELL NO. MW-10	Depth to Liquid (DL): 7.62
Casing Material: PVC	Depth to Water (DW1): 7.62
Diameter: 2"	Product Thickness (PT=DW1-DL): 0.00
Well Head Condition: good	Total Well Depth (TD): 13.19
Well Box Condition: good	Total head (TH=TD-DW1): 5.57
Purge Method:	Casing Volume (TH*Factor): 0.89 x 3 = 2.67
Casing Vol. Conv. Factors: **2" = 0.16**; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
11:10	1 g	21.52	553	~~7.48~~	0.379	107	8.35	
11:12	2 g	21.40	19	~~7.36~~	0.31	99	10.5	
11:14	3 g	21.99	0	~~7.32~~	6.23	115	34.1	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

Sample @ 1120
pH 6.60 4/22 SD

MONITORING WELL SAMPLING FORM

Date: 6/12/15

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: gD	

Note: All measurements from top of casing. Well Location: MW-11R

WELL NO. 11R	Depth to Liquid (DL):
Casing Material: PVC	Depth to Water (DW1): 10.06
Diameter: 2"	Product Thickness (PT=DW1-DL):
Well Head Condition:	Total Well Depth (TD): 23.89
Well Box Condition:	Total head (TH=TD-DW1): 13.83
Purge Method:	Casing Volume (TH*Factor): 2.21

Casing Vol. Conv. Factors: **2" = 0.16**; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft.
½" = 0.01; ¾" = 0.023 6.6 gal

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
0954	2	20.82	382	~~4.4~~	9.76	5	58.7	
1004	4	21.24	202	~~4.47~~	2.46	-20	7.95	
1013	6	20.51	186	~~4.43~~	1.83	-14	2.46	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

1020 se cap
pH 6.94 6/22 gD

MONITORING WELL SAMPLING FORM

Date: 6/12/15

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:	

Note: All measurements from top of casing. Well Location: MW-12

WELL NO. MW-12	Depth to Liquid (DL):
Casing Material: PVC	Depth to Water (DW1): 10.03
Diameter: 2"	Product Thickness (PT=DW1-DL):
Well Head Condition:	Total Well Depth (TD): 24.56
Well Box Condition:	Total head (TH=TD-DW1): 14.53
Purge Method:	Casing Volume (TH*Factor): 14.53 x 0.48 = 6.97
Casing Vol. Conv. Factors: **2" = 0.16**; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
0900	2	19.40	564	~~4.57~~	4.20	19	84.6	
0910	4	19.59	563	~~4.54~~	3.76	20	24.3	
0918	6	19.71	550	~~4.47~~	3.12	22	5.72	
0925	8	19.94	522	~~4.39~~	3.93	27	2.71	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

pH 6.76 6/22 QD

MONITORING WELL SAMPLING FORM	Date: 6/12/15

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:	

Note: All measurements from top of casing. Well Location: MW-13

WELL NO.	Depth to Liquid (DL):
Casing Material: PVC	Depth to Water (DW1): 9.39
Diameter: 2"	Product Thickness (PT=DW1-DL):
Well Head Condition:	Total Well Depth (TD): 20.28
Well Box Condition:	Total head (TH=TD-DW1): 10.89
Purge Method:	Casing Volume (TH*Factor): 1.75
Casing Vol. Conv. Factors: **2" = 0.16**; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	5.22

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1122	2	24.45	135	4.56	5.48	22	37.7	
1127	4	22.12	379	4.52	3.87	71	8.16	
1131	6	21.73	5	4.48	6.04	86	17.5	

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

Additional Comments

MONITORING WELL SAMPLING FORM

Date: 6/12/15

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: ERD	

Note: All measurements from top of casing. Well Location: MW-14

WELL NO. 14	Depth to Liquid (DL):
Casing Material: PVC	Depth to Water (DW1): 9.18
Diameter: 2"	Product Thickness (PT=DW1-DL):
Well Head Condition:	Total Well Depth (TD): 10.67
Well Box Condition:	Total head (TH=TD-DW1): 1.49
Purge Method:	Casing Volume (TH*Factor): 0.2384
Casing Vol. Conv. Factors: **2" = 0.16**; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	0.7

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
057	0.3g	22.27	133	4.49	3.31	12	10.9	
1059	0.6	25.92	1	4.41	6.29	24	10.3	
1101	0.9	25.76	"	4.57	6.18	8	9.53	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

Low producing well.

MONITORING WELL SAMPLING FORM

Date: 6/12/15

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: CURT	

Note: All measurements from top of casing. Well Location: MW-15

WELL NO.	Depth to Liquid (DL):
Casing Material: PVC	Depth to Water (DW1): 9.85
Diameter: 2"	Product Thickness (PT=DW1-DL):
Well Head Condition:	Total Well Depth (TD): 29.64
Well Box Condition:	Total head (TH=TD-DW1): 19.79
Purge Method: Bailer	Casing Volume (TH*Factor): 3.16
Casing Vol. Conv. Factors: **2" = 0.16**; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	9.5

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
13:52	2.5	21.33	20.5	4.41	8.27	103	670	
1400	5	20.89	510	4.50	3.51	123	463	
1414	7.5	20.96	532	4.63	2.80	119	315	
1419	10	20.58	299	4.52	3.12	117	575	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

MONITORING WELL SAMPLING FORM

Date: 6/12/2015

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:	

Note: All measurements from top of casing. Well Location: MW-16

WELL NO.	Depth to Liquid (DL):	
Casing Material: PVC	Depth to Water (DW1): 9.33	
Diameter: 2"	Product Thickness (PT=DW1-DL):	
Well Head Condition:	Total Well Depth (TD): 29.67	
Well Box Condition:	Total head (TH=TD-DW1): 20.34	
Purge Method:	Casing Volume (TH*Factor): 3.25	
Casing Vol. Conv. Factors: **2" = 0.16**; 3" = 0.36; 4"=0.65; 6" = 1.5 gal/ft. ½" = 0.01; ¾" = 0.023	9.76	

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1448	3 g	20.39	456	~~9.4~~ 4.50	3.41	122	31.4	
1453	6 g	19.79	338	~~9.4~~ 4.56	2.87	125	80.2	
1500	9 g	19.37	312	~~9.4~~ 4.54	2.95	130	90.6	

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (uS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER

Additional Comments

pH 11.84 4/22 RED