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February 12, 2016

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

Re: Perjury Statement
4th Quarter 2015 Quarterly Groundwater Monitoring and
System Evaluation Report
Bill Chun Service Station
2301 Santa Clara Avenue
Alameda, California 94501
SLIC # RO0000382
Geotracker Global ID # T0600100980

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

Carolyn C. Fong

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

**4TH 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:

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February 10, 2016
Project No. 401896004

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

Subject: 4th 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 4th 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 operations and maintenance. We appreciate the opportunity to be of service to you on this project.

Sincerely,
NINYO & MOORE



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Staff Environmental Scientist



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Distribution: (1) Addressee (via e-mail)
(1) Dilan Roe, 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.

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 COC groundwater plumes and bioattenuation parameter trends.

1.2. Site Description

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

1.3. Site Background

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

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

Several groundwater monitoring wells were installed on the site in separate occasions during 1993 and 2005. All wells installed in 1993 were either properly abandoned or redeveloped in 2012 for monitoring purposes, and new wells were installed in 2005. Injection wells were installed in 2002, 2004, and 2014. Injection wells installed in 2002 and 2004 were redeveloped in 2014, and all but one well installed in 2002 were abandoned. Extraction wells were installed in 2014. 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 in the online GeoTracker database. Appendix A provides historical concentrations of COCs presented in separate tables for each well.

3. REMEDIATION SYSTEM OPERATIONS AND MAINTENANCE

O&M on the site's remediation system includes both biweekly and monthly events, which for the 4th Quarter 2015 were performed by Ninyo & Moore from October 8, 2015, through December 31, 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 in Table 2. The analytical laboratory results for the O&M samples collected from the remediation system are presented in Table 4.

3.1. Biweekly O&M

From October 8, 2015, through December 31, 2015, Ninyo & Moore conducted site visits once every two weeks to perform O&M activities. During each biweekly O&M event, the

remediation system was checked for proper operation, pressure gauge and flow meter readings were recorded on field forms, and 50 pounds of Custom Blend Nutrient (CBN) nutrient mix were added to the mixing tank. In addition, on October 29, November 19, December 3, and December 17, 2015, 5 gallons of EZT-EA biosurfactant were added to the mixing tank. On November 5 and December 31, 2015, 10 gallons of EZT-EA biosurfactant were added to the mixing tank. Ninyo & Moore resumed adding biosurfactant to the remediation system in order to desorb and mobilize contaminants.

3.2. Monthly O&M

On October 22, November 19, and December 17, 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 whether breakthrough of COCs occurred in the lead GAC vessel. The EFF sample was collected from the sample port after the lag GAC vessel to evaluate breakthrough of COCs in the lag GAC vessel.

3.2.1. Remediation System Sample Collection

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

3.2.2. Remediation System Sample Analysis

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

3.2.3. Remediation System Sample Analytical Results

The analytical results for remediation system samples are presented in Table 4. Concentrations of TPHg and benzene decreased in samples collected at INF between each monitoring event this quarter. These results indicate the remediation of the site is progressing as intended as the decreased concentrations indicate the total mass of dissolved COCs are decreasing as the contaminated groundwater plume is treated and captured by the remediation system.

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

3.3. Bag Filter Change Out and Remediation System Maintenance

The remediation system's bag filters were changed out on October 8 and 29, November 8 and 24, and December 8 and 21, 2015, due to elevated pressure readings. During these change outs, a reddish-brown bacterial slime was observed in the bag filters, which is evidence of biofouling. The slimy consistency is attributed to bacterial growth and the reddish brown color signifies ferric iron precipitate. Biofouling in the bag filters is expected and indicates the remediation system is operating properly by encouraging bacterial growth.

Between October 8 and 27, 2015, no groundwater was extracted from well EW-20. On October 29, 2015 Ninyo & Moore, along with Northstate Earth and Water disassembled and cleaned the EW-20 flow meter which had been biofouled with reddish-brown bacterial growth. The extraction pump in EW-20 was removed from the well casing, disassembled, and cleaned of reddish-brown bacterial growth as well. With the EW-20 flow meter and extraction pump cleaned and reassembled, groundwater extraction resumed immediately. Initially groundwater extracted from EW-20 after cleaning was reddish-brown, but after a short period became clear indicating that the cleaning was successful in removing the biofouling.

3.4. Remediation System Injection Rate Changes

On October 29, in order to attempt to increase the flow rate to injection wells in the vicinity of MW-5R, injection wells EW-18 and EW-19 were placed on separate injection timers. However, during visits to the site on November 19, 23, and 24, 2015, surfacing of injection water was observed at wells EW-18 and EW-19. Attempts to reduce the flow rate to each well in order to stop surfacing were not successful and on November 24, 2015, injection wells EW-18 and EW-19 were placed back on a single injection timer which subsequently reduced the flow rate to both wells sufficiently to stop the surfacing.

3.5. Dilute Hydrogen Peroxide Injection

On December 12, 2015, ETEC performed dilute hydrogen peroxide injection. Dilute hydrogen peroxide injection was performed in order to remediate elevated COCs adsorbed to soil and in groundwater at the site, specifically in the vicinity of monitoring well MW-5R where the groundwater plume has been slow to respond to remediation efforts as discussed in Section 5.2.1. A total of approximately 450 gallons of hydrogen peroxide at a concentration of 50 percent was delivered to the site in three 150-gallon tanks. Groundwater was pumped from MW-5R into the mixing tank and combined with the 50 percent hydrogen peroxide to create a 3 to 5 percent hydrogen peroxide solution in the mixing tank. The 3 to 5 percent hydrogen peroxide solution was then injected into the subsurface through the injection wells EW-14 through EW-19 and horizontal injection piping IN-1, IN-2, and IN-3 (Figure 3). Groundwater pumped from well MW-5R was monitored for dissolved oxygen (DO), oxidation-reduction potential (ORP), conductivity, and temperature to evaluate the transport of the 3 to 5 percent hydrogen peroxide solution from the injection wells and horizontal injection piping through the subsurface to MW-5R. Elevated dissolved oxygen levels (up to 25 milligrams per liter) in groundwater pumped from MW-5R indicated that the 3 to 5 percent hydrogen peroxide solution had successfully moved through the subsurface from the injection wells and horizontal injection piping to well MW-5R. The impact of this dilute hydrogen peroxide injection will be evaluated in the forthcoming 1st Quarter 2016 Groundwater Monitoring and System Evaluation Report.

4. GROUNDWATER MONITORING

Ninyo & Moore conducted the 4th Quarter 2015 groundwater monitoring event on November 10 and 11, 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.

4.1. Depth to Groundwater Measurement

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

4.2. Groundwater Sampling

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

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

4.3. Decontamination Procedures

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

4.4. Investigation Derived Waste

Investigation-derived waste (IDW) consisting of purged groundwater and decontamination rinsate water was stored in properly labeled 55-gallon steel drums, which were left in a secure location on the site. Following waste profiling, the 55-gallon drums of IDW 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

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

- TPHg by USEPA Method 8015B;
- VOCs by USEPA Method 8260B;
- iron, manganese, and potassium by USEPA Method 200.7;
- nitrate, nitrite, phosphate, and sulfate by USEPA Method 300.0;
- ferric iron by calculation;
- ferrous iron by Standard Method (SM) 3500-Fe D; and
- nitrogen as ammonia by SM 4500-NH3 D.

5. GROUNDWATER SAMPLING RESULTS

The following section summarizes the results of the 4th Quarter Groundwater Monitoring event, and presents a discussion of the groundwater monitoring trends. 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. Trends in TPHg concentrations in groundwater for select wells are presented on Graph 1. Trends in Benzene concentrations in groundwater for select wells are presented on Graph 2.

5.1. Depth to Groundwater and Groundwater Flow Direction

The groundwater level measurements and the calculated groundwater elevations are presented in Table 3. Shallow groundwater elevation contours are shown on Figure 6. Based on the contours shown on Figure 6, the groundwater gradient appears to be strongly influenced by the operation of the remediation system. Groundwater elevation has been historically highest at MW-7R, and highest during the 4th Quarter Groundwater Monitoring at well MW-5R due to increased flow rates at injection wells EW-18 and EW-19 discussed in Section 3.4. The high groundwater elevations on the site are caused by the injection of amended water into the subsurface via the horizontal injection piping (injection piping IN-1 through IN-3) and vertical injection wells (injection wells EW-14 through EW-19). The groundwater elevation gradient slopes downward most steeply to the southwest toward extraction well EW-20 and to the east-northeast toward extraction wells EW-21 and EW-22, indicating the remediation system is successfully influencing and controlling groundwater flow beneath the site.

5.2. Groundwater Sample Laboratory Results

A summary of the groundwater sample analytical results are presented in Tables 4 and 5, and a copy of the certified TestAmerica analytical laboratory report is provided in Appendix C. The laboratory results are compared against Table F-1A of the San Francisco Bay Regional Water Quality Control Board (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 criteria established in the SWRCB *Low-Threat Underground Storage Tank Case Closure Policy*, adopted May 1, 2012.

5.2.1. Total Petroleum Hydrocarbons as Gasoline in Groundwater

Concentrations of TPHg in shallow groundwater are presented on Figure 7. The ESL for TPHg is 100 micrograms per liter ($\mu\text{g/L}$). TPHg was not detected above the laboratory reporting limit of 50 $\mu\text{g/L}$ in wells MW-9, MW-10, MW-13, MW-15, and MW-16. TPHg was reported at concentrations ranging from not detected above the laboratory reporting limit to 55,000 $\mu\text{g/L}$, 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, MW-7R, MW-11R, and MW-14 are presented on Graph 1 and are discussed below:

- TPHg concentrations in groundwater samples collected from wells MW-4R and MW-5R have increased since the 3rd Quarter 2015 (previous) monitoring event. The concentration of TPHg detected in MW-4R increased significantly over the previous quarter and is indicative of the mobilization of the dissolved TPHg toward extraction well EW-20. The concentration of TPHg detected in MW-5R increased significantly over the previous quarter, but is relatively stable relative to concentrations reported in 2015 and remains below the maximum concentration of TPHg reported in MW-5R. This indicates that this portion of the groundwater plume has been slow to respond to remediation efforts likely due to TPHg continuing to desorb from soil.
- TPHg concentrations in groundwater samples collected from wells MW-6R, MW-7R, MW-11R, and MW-14 have decreased since the previous monitoring event. MW-6R and MW-14 represent wells on the edge of the contaminated groundwater plume. Decreases in TPHg concentrations in these wells are indicative that progress is being made in shrinking the overall size of the plume. Well MW-7R historically represents the most contaminated area of the site. Therefore the decrease in TPHg concentration in this well indicates remediation continues to successfully reduce overall concentrations. The decrease in TPHg concentration in MW-11R was significant, but is stable relative to concentrations reported in 2015.

5.2.2. Benzene in Groundwater

Benzene concentrations in shallow groundwater are presented on Figure 8. The ESL for benzene is 1.0 µg/L. Benzene was not detected above the laboratory reporting limit in wells MW-9, MW-10, MW-13, MW-15, and MW-16. Benzene was reported at concentrations ranging from not detected above the laboratory reporting limit to 1,800 µg/L, with the highest concentration detected in well MW-5R.

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-4R, MW-5R, MW-6R, and MW-11R have increased since the previous monitoring event. The concentrations of benzene detected in MW-4R and MW-11R increased significantly over the previous quarter and are indicative of the mobilization of the dissolved benzene toward the extraction wells. The concentration of benzene detected in MW-5R increased significantly over the previous quarter, but is stable relative to concentrations reported in 2015. This indicates that this portion of the groundwater plume has been slow to respond to remediation efforts likely due to benzene continuing to desorb from soil.
- Benzene concentrations in groundwater samples collected from wells MW-7R and MW-14 have decreased since the previous monitoring event. Well MW-7R historically represented the area of the site with the highest benzene concentrations. Therefore the decrease in benzene concentrations in well MW-7R indicates remediation continues to successfully move forward in the center of the plume. The concentration of benzene detected in well MW-14 decreased significantly since the last quarter indicating that the remediation system is successfully treating this portion of the plume.

5.2.3. Other VOCs in Groundwater

Other VOCs detected in the groundwater samples at concentrations which exceeded their respective ESLs included toluene, ethylbenzene, total xylenes, naphthalene, and 1,2-dichloroethane.

- The concentrations of toluene reported ranged from not detected above the laboratory reporting limit to 11,000 µg/L in MW-7R.

- The concentrations of ethylbenzene reported ranged from not detected above the laboratory reporting limit to 3,800 µg/L in MW-5R.
- The concentrations of total xylenes reported ranged from not detected above the laboratory reporting limit to 24,000 µg/L in MW-5R.
- The concentrations of naphthalene reported ranged from not detected above the laboratory reporting limit to 710 µg/L in MW-7R.
- The concentrations of 1,2-dichloroethane reported ranged from not detected above the laboratory reporting limit to 2.9 µg/L in 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) were measured in the field using a hand-held Horriba U-53.

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

5.2.4.1. Oxidation Reduction Potential

ORP is a measure of electron activity and is an indicator of the relative tendency of a solute species to gain or lose electrons. ORP values in groundwater generally range from -400 millivolts (mV) to 800 mV (USEPA, 2004). Positive ORP values in groundwater are generally indicative of aerobic reducing conditions and negative ORP values are generally indicative of anaerobic reducing conditions. ORP values recorded during the 4th Quarter 2015 monitoring event ranged from -96 mV to 133 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 4th Quarter 2015 monitoring event ranged from 0.34 milligrams per liter (mg/L) to 9.93 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-8, MW-9, MW-10, MW-11, MW-13, MW-14, MW-15, and MW-16. Wells MW-6R, MW-7R, and MW-12 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. The number of wells with relatively higher levels of DO increased over the previous quarter indicating that the remediation system has increased the area where DO is available for use as the primary electron acceptor in the bioattenuation of petroleum hydrocarbons.

5.2.4.3. Nitrate

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

concentrations have increased relative to the previous monitoring event in monitoring wells MW-4R and MW-7R, while concentrations in the remaining wells have decreased or remained stable. This is 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 (USEPA, 2004). The concentration of ferrous iron reported in wells ranged from non-detect to concentrations of 18 mg/l in MW-8 and 27 mg/l in MW-4. Elevated ferrous iron concentrations indicate that ferric iron is being reduced to ferrous iron due to microbial utilization.

5.2.4.5. *Manganese*

Manganese (IV) oxide can be reduced to manganese (II) by anaerobic bioattenuation after DO, nitrate, and ferric iron are depleted. The presence of manganese (II) in groundwater samples is an indication that reduction of manganese (IV) oxide has occurred (USEPA, 2004). The concentrations of manganese (II) reported in wells ranged from 0.22 mg/L in MW-16 to 4.0 mg/L in MW-9. The detected manganese (II) concentrations indicate that manganese (IV) oxide is being reduced to manganese (II) due to microbial utilization.

5.2.4.6. *Sulfate*

Sulfate can be consumed by anaerobic bioattenuation after DO, nitrate, ferric iron, and manganese are depleted. Sulfate concentrations that vary inversely with petroleum hydrocarbon concentrations are indicative of anaerobic bioattenuation (USEPA, 2004). However, the addition of DO and nitrate to the subsurface via the amended injection water is expected to inhibit the use of sulfate as an electron

acceptor. At this time, an inverse relationship between sulfate and petroleum hydrocarbon concentrations has not been established indicating that aerobic reducing conditions dominate, followed by the more preferential anaerobic reducing mechanisms (nitrate, 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 (USEPA, 2004). Because sulfate reducing conditions have not been observed, it is unlikely that carbon dioxide is being reduced and therefore methane is not currently included in the monitored bioattenuation analytes.

5.2.4.8. Bioattenuation Summary

Overall, the monitored wells are trending toward ORP values that remain positive or are trending toward more positive values indicating a trend toward stronger aerobic bioattenuation. Exceptions to this overall trend are in wells MW-4R, MW-8, MW-11, MW-12, and MW-14. The wells exhibiting negative or trends to negative values generally are outside the area in which the remediation system is injecting amended water and 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. Anaerobic reduction of electron acceptors appears to be taking place across the site, though less strongly in the center of the site than before where aerobic bioattenuation appears to be becoming stronger. Continued microbial growth in the subsurface appears to be taking place, as evidenced by biofouling in the bag filters. During future O&M events, Ninyo & Moore will be evaluating the oxygen injection rates and injection pressures of the remediation

system with the goal of producing positive ORP values and higher concentrations of DO in all wells in future groundwater monitoring events.

6. QUALITY ASSURANCE/QUALITY CONTROL

Upon collection, groundwater samples were immediately placed on ice for storage during field activities, pending transportation to the laboratory. At the conclusion of the sampling event, the samples were transferred to TestAmerica, a California ELAP certified laboratory, in Pleasanton, 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 in the east-west direction as evidenced by wells MW-10, MW-15, and MW-16 that formerly had detectable concentrations of COCs, which have been non-detect since at least January 2015. The areal extent of the contaminated groundwater has appeared to decrease in the north-south direction based on separation of the plume between MW-4R and MW-8, which is influenced by the groundwater extraction occurring at well EW-20. Reductions in overall concentrations of COCs in the contaminated groundwater plume are expected to continue to lead to an overall decrease in the area of the plume in the future in order to meet this condition.
- **The contaminant plume that exceeds water quality objectives (RWQCB ESLs) must be less than 100 feet in length** – The contaminated groundwater plume is currently approximately 180 feet long. Operation of the remediation system appears to have cut off the southern end of the plume between MW-4R and MW-8, thereby reducing the total length of the plume. Continued reductions in overall concentrations of COCs in the contaminated groundwater plume are expected to lead to overall decreases in the length of the plume in the future in order to meet this condition.
- **Benzene concentrations in groundwater in the remaining contaminant plume will be less than 1,000 µg/L** – The maximum concentration of benzene detected in the contaminated groundwater plume has decreased from 18,000 µg/L in June 2014, to 1,800 µg/L in November 2015. This ten 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. CONCLUSIONS

Ninyo & Moore presents the following conclusions:

- Remediation system O&M activities were performed biweekly between October 8 and December 31, 2015. Biweekly and monthly O&M activities included monitoring the remediation system for proper operation and adding biological amendments (CBN nutrient mix and EZT-EA surfactant) to the remediation system. Because of elevated pressure readings observed on the bag filter assembly due to biofouling, the bag filters were changed out on October 8, October 29, November 8, November 24, December 8, and December 21, 2015. Because no extracted groundwater was being pumped from well EW-20, on October 29, 2015, the EW-20 flow meter and extraction pump were disassembled and cleaned of biofouling.
- Collection of remediation system samples was performed monthly on October 22, November 19, and December 17, 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.
- On December 12, 2015, dilute hydrogen peroxide was added to the remediation system to stimulate contaminant mass desorption and enhance the overall bioremediation of site COCs.
- 4th Quarter 2015 groundwater monitoring and sample collection was performed on November 10 and 11, 2015.
 - Based on depth to water measurements collected during the 4th Quarter 2015 groundwater monitoring event, groundwater appears to be flowing to the east-northeast and southwest due to the influence of extraction of groundwater at wells EW-20, EW-21, and EW-22. Groundwater elevations indicate that groundwater has mounded at the site due to injection of amended water through the vertical injection wells and horizontal injection piping.
 - Dissolved phase TPHg and/or VOC concentrations in groundwater exceed their respective ESLs in wells MW-4R through MW-7R, MW-8, MW-11R, MW-12, MW-13, MW-14, MW-15, and MW-16.

- Monitoring wells MW-6R, MW-7R, MW-8, MW-11R, MW-12, and MW-14 have decreased or stable TPHg concentrations; MW-4R and MW-5R have increased or stable TPHg concentrations; and MW-9, MW-10, MW-13, MW-15, and MW-16 remained non-detect for TPHg.
- Monitoring wells and MW-6R, MW-7R, MW-12, and MW-14 have decreased benzene concentrations; MW-4R, MW-5R, MW-8, 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 benzene concentrations detected in groundwater samples and the reduction in total area of the plume indicate the groundwater plume is being remediated. The area of the TPHg and benzene dissolved phase groundwater plume reduced in the north-south direction and in the east-west direction compared to the groundwater monitoring event performed before remediation system startup in June of 2014. Concentrations of TPHg and benzene in wells still remain relatively high indicating that a significant mass of contaminants may remain adsorbed to site soil.
- Aerobic bioattenuation is the main driver of the remediation process in the groundwater plume. Anaerobic bioattenuation is occurring secondarily. Since the remediation system is supplying DO and nitrate to the subsurface through amended water injection, and DO reduction is thermodynamically preferred followed by nitrate reduction, the remediation system is operating as expected.

9. RECOMMENDATIONS

Based on the conclusions discussed above, Ninyo & Moore recommends continued implementation of the preferred remedial alternative (groundwater recirculation and enhanced bioremediation) presented in the *CAP*, dated August 1, 2013, including ongoing O&M activities and groundwater monitoring as detailed in the *O&M Plan*, dated December 24, 2013. The 1st Quarter 2016 groundwater monitoring event will evaluate the impact that the dilute hydrogen peroxide injection performed on December 12, 2016, had on the groundwater plume. During future O&M events, Ninyo & Moore will be evaluating the oxygen injection rates and injection pressures of the remediation system with the goal of producing positive ORP values and higher concentrations of DO in all wells. Increased amounts of CBN (up to 800 pounds) and EZT-EA surfactant (up to 80 gallons) will be added to the remediation system over a one month period to increase nutrients available for bioattenuation and mobilize contaminants that may be remaining adsorbed to soil in order to accelerate the remediation process. The 2nd Quarter 2016

groundwater monitoring event will evaluate the impact that the increased CBN and EZT-EA addition to the remediation system will have on the groundwater plume.

10. LIMITATIONS

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

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

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

Ninyo & Moore's conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with

time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

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

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

11. REFERENCES

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

TABLE 1 – MONITORING WELL INVENTORY

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

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

Notes:

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

bgs = feet below ground surface

TOC = top of casing

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

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

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

Date/Time	Elapsed Time	Extraction Flow Rate	Extraction Total	Totalizer	Products Added		Comments
	(min)	(gpm)	(gal)	(gal)	CBN (pounds)	PS (gal)	
11/21/14 14:00	0	--	0	0	0	0	System startup and test for 3 hours/cycles to evaluate leaks, etc.. Shut down system at 5 pm. Will start up 24/7 tomorrow.
11/22/14 8:00	1,080	0.8	870	700	250	0	System startup. BT onsite. Product addition started.
11/23/14 8:50	1,490	1.7	2,480	2,900	250	0	Slight surfacing at IN-18, reduced flow and injection time to 1 min.
11/24/14 7:30	1,360	1.6	2,130	5,010	50	50	950 lbs CBN left onsite, lots of PS remaining.
12/2/14 12:30	11,820	--	--	--	100	10	Connected 18 and 19 together. 19 was surfacing a little. Flow meter taken out for 18.
12/4/14 9:00	14,490	1.2	17,570	23,110	50	5	
12/10/14 10:50	8,750	1.0	8,370	31,410	50	5	
12/18/14 16:12	11,842	1.0	11,900	42,870	50	5	
1/2/15 11:12	21,300	1.2	24,970	65,390	50	5	
1/6/15 13:07	5,875	1.3	7,410	71,890	100	5	
1/16/15 9:50	14,203	1.2	17,460	87,090	50	5	
1/30/15 17:15	20,605	1.0	21,000	104,720	50	5	Mixing tank pH = 6.90.
2/6/15 15:00	9,945	1.1	10,630	113,350	50	5	Mixing tank pH = 7.30.
2/12/15 7:00	8,160	1.1	8,830	120,440	50	5	Mixing tank pH = 7.51 and holding tank pH = 7.67.
2/19/15 11:16	10,336	1.1	11,440	129,550	50	5	
2/27/15 9:55	11,439	1.1	12,590	139,800	50	5	Mixing tank pH = 7.07 and holding tank pH = 6.99.
3/5/15 15:35	8,980	1.1	9,990	147,850	50	5	Mixing tank pH = 7.10 and holding tank pH = 7.04.
3/13/15 12:00	11,305	1.1	12,580	157,900	50	5	Mixing tank pH = 7.05 and holding tank pH = 7.01.
3/25/15 12:43	17,323	1.1	18,280	172,300	50	5	Mixing tank pH = 7.30 and holding tank pH = 7.17. Dilute hydrogen peroxide injection was performed on March 18 through 21, 2015.
4/9/15 14:20	21,697	1.2	26,140	190,650	0	0	5 gallons of EZT-A2 TPH bacterial consortium added to remediation system. Mixing Tank pH = 7.83.
4/23/15 15:30	20,230	1.5	29,910	208,070	0	0	
5/8/15 9:30	21,240	1.4	29,460	228,260	50	0	
5/21/15 15:40	19,090	1.9	35,680	248,880	50	0	
6/4/15 9:05	19,765	1.8	36,260	270,030	50	0	Bag filters changed out on May 28, 2015.
6/18/15 8:25	20,120	2.1	41,810	294,370	50	0	Bag filters changed out on June 11, 2015
7/1/15 16:15	19,190	2.7	52,130	320,500	50	0	Bag filters changed out on June 25, 2015.
7/16/15 11:32	21,317	2.9	61,830	320,500	50	0	Bag filters changed out on July 8, 2015.
7/29/15 8:24	18,532	2.9	54,610	375,000	50	0	Bag filters changed out on July 30, 2015.
8/11/15 14:00	19,056	2.9	55,210	399,720	50	0	
8/27/15 16:00	23,160	3.0	69,430	429,540	50	0	Bag filters changed out on August 27, 2015
9/10/15 16:00	20,160	3.1	62,370	455,560	50	0	Bag filters changed out on September 11, 2015
9/24/15 15:30	20,130	3.4	68,180	482,680	50	0	
10/8/15 15:45	20,175	2.4	48,260	503,000	50	0	Bag filters changed out on October 8, 2015
10/22/15 15:30	20,145	1.1	22,010	525,970	50	0	
10/27/15 11:53	6,983	1.1	7,870	534,290	0	0	
10/29/15 9:37	2,744	0.7	1,850	536,070	50	5	Bag filters changed out on October 29, 2015.
10/30/15 11:53	1,576	1.8	2,840	538,360	0	0	
11/5/15 15:45	8,872	1.8	15,850	550,480	50	10	Bag filters changed out on November 8, 2015.
11/19/15 8:52	19,747	1.7	34,380	576,920	50	5	Bag filters changed out on November 24, 2015.
12/3/15 16:30	20,618	1.8	36,640	604,550	50	5	Bag filters changed out on December 8, 2015. Dilute hydrogen peroxide injection was performed on December 12, 2015.
12/17/15 14:20	20,030	1.7	33,510	630,030	50	5	Bag filters changed out on December 21, 2015.
12/31/15 10:08	19,908	0.8	16,370	641,970	50	10	
Totals	554,850		991,220		2,250	155	

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

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

TABLE 2 - REMEDIATION SYSTEM OPERATIONS & MAINTENANCE SUMMARY

Date/Time	Elapsed Time	EXTRACTION WELLS								
		EW-20			EW-22			EW-21		
		Reading	Volume	Rate	Reading	Volume	Rate	Reading	Volume	Rate
	(min)	(gal)	(gal)	(gpm)	(gal)	(gal)	(gpm)	(gal)	(gal)	(gpm)
11/21/14 14:00	0	0	--	--	0	--	--	0	--	--
11/22/14 8:00	1,080	420	420	0.39	250	250	0.23	200	200	0.19
11/23/14 8:50	1,490	1,750	1,330	0.89	930	680	0.46	670	470	0.32
11/24/14 7:30	1,360	2,750	1,000	0.74	1,450	520	0.38	1,280	610	0.45
12/2/14 12:30	11,820	--	--	--	--	--	--	--	--	--
12/4/14 9:00	14,490	13,130	10,380	0.72	2,210	760	0.05	7,710	6,430	0.44
12/10/14 10:50	8,750	16,720	3,590	0.41	4,320	2,110	0.24	10,380	2,670	0.31
12/18/14 16:12	11,842	21,310	4,590	0.39	7,540	3,220	0.27	14,470	4,090	0.35
1/2/15 11:12	21,300	32,170	10,860	0.51	13,900	6,360	0.30	22,220	7,750	0.36
1/6/15 13:07	5,875	35,590	3,420	0.58	15,660	1,760	0.30	24,450	2,230	0.38
1/16/15 9:50	14,203	43,480	7,890	0.56	20,010	4,350	0.31	29,670	5,220	0.37
1/30/15 17:15	20,605	53,090	9,610	0.47	24,740	4,730	0.23	36,330	6,660	0.32
2/6/15 15:00	9,945	58,110	5,020	0.50	27,160	2,420	0.24	39,520	3,190	0.32
2/12/15 7:00	8,160	62,180	4,070	0.50	29,170	2,010	0.25	42,270	2,750	0.34
2/19/15 11:16	10,336	67,480	5,300	0.51	31,830	2,660	0.26	45,750	3,480	0.34
2/27/15 9:55	11,439	73,460	5,980	0.52	34,990	3,160	0.28	49,200	3,450	0.30
3/5/15 15:35	8,980	78,160	4,700	0.52	37,610	2,620	0.29	51,870	2,670	0.30
3/13/15 12:00	11,305	84,030	5,870	0.52	40,990	3,380	0.30	55,200	3,330	0.29
3/25/15 12:43	17,323	92,520	8,490	0.49	45,660	4,670	0.27	60,320	5,120	0.30
4/9/15 14:20	21,697	105,020	12,500	0.58	51,780	6,120	0.28	67,840	7,520	0.35
4/23/15 15:30	20,230	118,220	13,200	0.65	58,050	6,270	0.31	78,280	10,440	0.52
5/8/15 9:30	21,240	134,470	16,250	0.77	65,210	7,160	0.34	84,330	6,050	0.28
5/21/15 15:40	19,090	153,100	18,630	0.98	72,510	7,300	0.38	94,080	9,750	0.51
6/4/15 9:05	19,765	171,210	18,110	0.92	79,820	7,310	0.37	104,920	10,840	0.55
6/18/15 8:25	20,120	192,250	21,040	1.05	88,080	8,260	0.41	117,430	12,510	0.62
7/1/15 16:15	19,190	222,140	29,890	1.56	97,150	9,070	0.47	130,600	13,170	0.69
7/16/15 11:32	21,317	259,080	36,940	1.73	107,650	10,500	0.49	144,990	14,390	0.68
7/29/15 8:24	18,532	291,890	32,810	1.77	116,490	8,840	0.48	157,950	12,960	0.70
8/11/15 14:00	19,056	325,290	33,400	1.75	125,280	8,790	0.46	170,970	13,020	0.68
8/27/15 16:00	23,160	368,880	43,590	1.88	135,900	10,620	0.46	186,190	15,220	0.66
9/10/15 16:00	20,160	408,090	39,210	1.94	145,590	9,690	0.48	199,660	13,470	0.67
9/24/15 15:30	20,130	451,090	43,000	2.14	156,180	10,590	0.53	214,250	14,590	0.72
10/8/15 15:45	20,175	480,760	29,670	1.47	163,900	7,720	0.38	225,120	10,870	0.54
10/22/15 15:30	20,145	480,760	0	0.00	173,450	9,550	0.47	237,580	12,460	0.62
10/27/15 11:53	6,983	480,760	0	0.00	176,910	3,460	0.50	241,990	4,410	0.63
10/29/15 9:37	2,744	480,770	10	0.00	177,720	810	0.30	243,020	1,030	0.38
10/30/15 11:53	1,576	481,800	1,030	0.65	178,530	810	0.51	244,020	1,000	0.63
11/5/15 15:45	8,872	487,470	5,670	0.64	183,120	4,590	0.52	249,610	5,590	0.63
11/19/15 8:52	19,747	499,880	12,410	0.63	193,220	10,100	0.51	261,480	11,870	0.60
12/3/15 16:30	20,618	514,040	14,160	0.69	203,800	10,580	0.51	273,380	11,900	0.58
12/17/15 14:20	20,030	528,270	14,230	0.71	212,080	8,280	0.41	284,380	11,000	0.55
12/31/15 10:08	19,908	534,710	6,440	0.32	216,450	4,370	0.22	289,940	5,560	0.28

Notes:
Remediation system startup: NOV 21, 2014.
Product addition began: NOV 22, 2014
min = minutes
gpm = gallons per minute
gal = gallons
CBN = Nutrients Added
A2 = bacterial consortium added
PS = Surfactant Added

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-2R	05/10/12	28.56	25.18	7.81	7.81	0.00	20.75	NA	NA	2" Diameter well
MW-2R	11/14/12	28.56	NM	NM	NM	ND	NA	NA	NA	Not Sampled and only gauged for LPH
MW-2R	04/17/13	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	06/25/14	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	12/04/14	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	12/31/14	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	01/22/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	02/19/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	6/11/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	08/11/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-2R	11/10/15	28.56	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
MW-4R	05/10/12	28.45	25.13	7.86	7.86	0.00	20.59	NA	NA	2" Diameter well
MW-4R	11/14/12	28.45	25.12	8.58	8.58	0.00	19.87	Decrease	-0.72	
MW-4R	04/17/13	28.45	25.10	8.13	8.13	0.00	20.32	Rise	0.45	
MW-4R	06/25/14	28.45	24.87	8.84	8.84	0.00	19.61	Decrease	-0.71	
MW-4R	12/04/14	28.45	24.90	9.00	9.00	0.00	19.45	Decrease	-0.16	slight hydrocarbon odor
MW-4R	12/31/14	28.45	24.90	7.45	7.45	0.00	21.00	Rise	1.55	
MW-4R	01/22/15	28.45	24.90	8.25	8.25	0.00	20.20	Decrease	-0.80	
MW-4R	02/19/15	28.45	24.90	8.15	8.15	0.00	20.30	Rise	0.10	
MW-4R	06/11/15	28.45	29.18	9.08	9.08	0.00	19.37	Decrease	-0.93	
MW-4R	08/11/15	28.45	25.19	9.98	9.98	0.00	18.47	Decrease	-0.90	
MW-4R	11/10/15	28.45	25.17	10.24	10.24	0.00	18.21	Decrease	-0.26	

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-5R	05/10/12	28.25	23.79	7.46	7.46	0.00	20.79	NA	NA	2" Diameter well
MW-5R	11/14/12	28.25	23.78	8.41	8.41	0.00	19.84	Decrease	-0.95	
MW-5R	04/17/13	28.25	23.70	7.65	7.65	0.00	20.60	Rise	0.76	
MW-5R	06/25/14	28.25	23.50	8.57	8.57	0.00	19.68	Decrease	-0.92	
MW-5R	12/04/14	28.25	23.50	7.40	7.40	0.00	20.85	Rise	1.17	
MW-5R	12/31/14	28.25	23.50	6.20	6.20	0.00	22.05	Rise	1.20	
MW-5R	01/22/15	28.25	23.50	7.05	7.05	0.00	21.20	Decrease	-0.85	
MW-5R	02/19/15	28.25	23.50	7.10	7.10	0.00	21.15	Decrease	-0.05	
MW-5R	06/11/15	28.25	23.79	7.84	7.84	0.00	20.42	Decrease	-0.73	Brown water, has distinct hydrocarbon odor
MW-5R	08/11/15	28.25	24.79	8.11	8.11	0.00	20.14	Decrease	-0.27	
MW-5R	11/10/15	28.25	23.78	8.58	8.58	0.00	19.67	Decrease	-0.47	
MW-6R	05/10/12	28.07	25.22	7.21	7.21	0.00	20.86	NA	NA	2" Diameter well
MW-6R	11/14/12	28.07	25.20	8.31	8.31	0.00	19.76	Decrease	-1.10	
MW-6R	04/17/13	28.07	24.90	7.60	7.60	0.00	20.47	Rise	0.71	
MW-6R	06/25/14	28.07	24.87	8.49	8.49	0.00	19.58	Decrease	-0.89	
MW-6R	12/04/14	28.07	24.90	7.40	7.40	0.00	20.67	Rise	1.09	
MW-6R	12/31/14	28.07	24.90	6.00	6.00	0.00	22.07	Rise	1.40	
MW-6R	01/22/15	28.07	24.90	7.00	7.00	0.00	21.07	Decrease	-1.00	
MW-6R	02/19/15	28.07	24.90	7.05	7.05	0.00	21.02	Decrease	-0.05	
MW-6R	06/11/15	28.07	25.18	7.78	7.78	0.00	20.29	Decrease	-0.73	
MW-6R	08/11/15	28.07	25.18	8.20	8.20	0.00	19.87	Decrease	-0.42	
MW-6R	11/10/15	28.07	25.13	8.74	8.74	0.00	19.33	Decrease	-0.54	
MW-7R	05/10/12	28.41	25.33	7.63	7.63	0.00	20.78	NA	NA	2" Diameter well
MW-7R	11/14/12	28.41	25.30	8.68	8.68	0.00	19.73	Decrease	-2.48	
MW-7R	04/17/13	28.41	24.95	7.85	7.85	0.00	20.56	Rise	0.83	
MW-7R	06/25/14	28.41	24.97	8.79	8.79	0.00	19.62	Decrease	-0.94	
MW-7R	12/04/14	28.41	24.95	7.65	7.65	0.00	20.76	Rise	1.14	

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-7R	12/31/14	28.41	24.95	6.15	6.15	0.00	22.26	Rise	1.50	
MW-7R	01/22/15	28.41	24.95	7.05	7.05	0.00	21.36	Decrease	-0.90	
MW-7R	02/19/15	28.41	24.95	7.10	7.10	0.00	21.31	Decrease	-0.05	
MW-7R	06/11/15	28.41	25.28	7.84	7.84	0.00	20.57	Decrease	-0.74	
MW-7R	08/11/15	28.41	25.29	8.25	8.25	0.00	20.16	Decrease	-0.41	
MW-7R	11/10/15	28.41	25.22	9.77	9.77	0.00	18.64	Decrease	-1.52	
MW-8	05/10/12	28.01	14.16	7.74	7.74	0.00	20.27	NA	NA	2" Diameter well
MW-8	11/14/12	28.01	14.15	8.09	8.09	0.00	19.92	Decrease	-0.35	
MW-8	04/17/13	28.01	14.00	7.68	7.68	0.00	20.33	Rise	0.41	
MW-8	06/25/14	28.01	13.84	8.25	8.25	0.00	19.76	Decrease	-0.57	
MW-8	12/05/14	28.01	13.85	7.45	7.45	0.00	20.56	Rise	0.80	
MW-8	12/31/14	28.01	14.00	7.55	7.55	0.00	20.46	Decrease	-0.10	
MW-8	01/22/15	28.01	14.00	7.90	7.90	0.00	20.11	Decrease	-0.35	
MW-8	02/19/15	28.01	14.00	7.85	7.85	0.00	20.16	Rise	0.05	
MW-8	06/11/15	28.01	14.26	8.34	8.34	0.00	19.67	Decrease	-0.49	
MW-8	08/11/15	28.01	14.24	8.69	8.69	0.00	19.32	Decrease	-0.35	
MW-8	11/10/15	28.01	14.19	9.02	9.02	0.00	18.99	Decrease	-0.33	
MW-9	05/10/12	27.23	15.09	6.25	6.25	0.00	20.98	NA	NA	2" Diameter well
MW-9	11/14/12	27.23	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-9	04/17/13	27.23	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-9	06/26/14	27.23	14.82	7.78	7.78	0.00	19.45	NA	NA	
MW-9	12/05/14	27.23	14.84	7.10	7.10	0.00	20.13	Rise	0.68	
MW-9	12/31/14	27.23	14.8	5.80	5.80	0.00	21.43	Rise	1.30	
MW-9	01/22/15	27.23	14.8	6.45	6.45	0.00	20.78	Decrease	-0.65	
MW-9	02/19/15	27.23	14.75	6.55	6.55	0.00	20.68	Decrease	-0.10	
MW-9	06/11/15	27.23	15.06	7.59	7.59	0.00	19.64	Decrease	-1.04	
MW-9	08/10/15	27.23	15.03	8.21	8.21	0.00	19.02	Decrease	-0.62	
MW-9	11/10/15	27.23	15.03	8.76	8.76	0.00	18.47	Decrease	-0.55	

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-10	05/10/12	27.45	13.12	6.49	6.49	0.00	20.96	NA	NA	2" Diameter well
MW-10	11/14/12	27.45	13.12	7.31	7.31	0.00	20.14	Decrease	-0.82	
MW-10	04/18/13	27.45	12.95	7.04	7.04	0.00	20.41	Rise	0.27	
MW-10	06/26/14	27.45	12.86	7.86	7.86	0.00	19.59	Decrease	-0.82	
MW-10	12/05/14	27.45	12.81	6.89	6.89	0.00	20.56	Rise	0.97	Slow-moving water, copious bubbles
MW-10	12/31/14	27.45	12.95	5.80	5.80	0.00	21.65	Rise	1.09	
MW-10	01/22/15	27.45	12.95	6.60	6.60	0.00	20.85	Decrease	-0.80	
MW-10	02/19/15	27.45	12.95	6.75	6.75	0.00	20.70	Decrease	-0.15	
MW-10	06/11/15	27.45	13.19	7.62	7.62	0.00	19.83	Decrease	-0.87	
MW-10	08/10/15	27.45	13.16	8.19	8.19	0.00	19.26	Decrease	-0.57	Turb flashed 1,000
MW-10	11/10/15	27.45	13.15	8.73	8.73	0.00	18.72	Decrease	-0.54	
MW-11R	05/10/12	28.92	23.87	8.02	8.02	0.00	20.90	NA	NA	2" Diameter well
MW-11R	11/14/12	28.92	23.95	9.18	9.18	0.00	19.74	Decrease	-1.16	
MW-11R	04/17/13	28.92	24.4	8.14	8.14	0.00	20.78	Rise	1.04	
MW-11R	06/26/14	28.92	23.64	9.30	9.30	0.00	19.62	Decrease	-1.16	
MW-11R	12/04/14	28.92	23.65	8.90	8.90	0.00	20.02	Rise	0.40	
MW-11R	12/31/14	28.92	23.65	8.15	8.15	0.00	20.77	Rise	0.75	
MW-11R	01/23/15	28.92	23.65	8.40	8.40	0.00	20.52	Decrease	-0.25	Turbidity reading repeatedly flashed "0.00"
MW-11R	02/20/15	28.92	23.65	8.60	8.60	0.00	20.32	Decrease	-0.20	
MW-11R	06/12/15	28.92	23.89	10.06	10.06	0.00	18.86	Decrease	-1.46	
MW-11R	08/10/15	28.92	23.91	10.92	10.92	0.00	18.00	Decrease	-0.86	
MW-11R	11/11/15	28.92	23.87	11.20	11.20	0.00	17.72	Decrease	-0.28	
MW-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	

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-12	12/31/14	28.73	24.35	8.20	8.20	0.00	20.53	Rise	1.75	
MW-12	01/23/15	28.73	24.35	8.80	8.80	0.00	19.93	Decrease	-0.60	
MW-12	02/16/15	28.73	24.35	9.50	9.50	0.00	19.23	Decrease	-0.70	
MW-12	06/12/15	28.73	24.56	10.03	10.03	0.00	18.70	Decrease	-0.53	
MW-12	08/10/15	28.73	24.59	10.82	10.82	0.00	17.91	Decrease	-0.79	
MW-12	11/11/15	28.73	24.58	11.12	11.12	0.00	17.61	Decrease	-0.30	
MW-13	05/10/12	29.21	20.02	8.57	8.57	0.00	20.64	NA	NA	2" Diameter well
MW-13	11/14/12	29.21	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-13	04/17/13	29.21	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-13	06/26/14	29.21	20.02	9.87	9.87	0.00	19.34	NA	NA	
MW-13	12/04/14	29.21	20.00	9.25	9.25	0.00	19.96	Rise	0.62	
MW-13	12/31/14	29.21	NM	NM	NM	NM	NA	NA	NA	Property closed, couldn't access well.
MW-13	01/23/15	29.21	20.00	11.20	11.20	0.00	18.01	Decrease	-1.95	
MW-13	02/20/15	29.21	20.00	11.55	11.55	0.00	17.66	Decrease	-0.35	
MW-13	06/12/15	29.21	20.28	9.39	9.39	0.00	19.82	Rise	2.16	
MW-13	08/10/15	29.21	20.32	9.87	9.87	0.00	19.34	Decrease	-0.48	Turbidity flashed 0.0
MW-13	11/11/15	29.21	20.32	10.26	10.26	0.00	18.95	Decrease	-0.39	
MW-14	05/10/12	29.02	11.62	8.28	8.28	0.00	20.74	NA	NA	2" Diameter well
MW-14	11/14/12	29.02	11.71	9.20	9.20	0.00	19.82	Decrease	-0.92	
MW-14	04/17/13	29.02	11.60	8.45	8.45	0.00	20.57	Rise	0.75	
MW-14	06/26/14	29.02	11.38	9.34	9.34	0.00	19.68	Decrease	-0.89	
MW-14	12/04/14	29.02	11.40	8.30	8.30	0.00	20.72	Rise	1.04	
MW-14	12/31/14	29.02	NM	NM	NM	NM	NA	NA	NA	Property closed, couldn't access well.
MW-14	01/23/15	29.02	11.50	8.25	8.25	0.00	20.77	Rise	0.05	
MW-14	02/20/15	29.02	11.40	8.30	8.30	0.00	20.72	Decrease	-0.05	
MW-14	06/12/15	29.02	10.67	9.18	9.18	0.00	19.84	Decrease	-0.88	
MW-14	08/10/15	29.02	11.66	9.65	9.65	0.00	19.37	Decrease	-0.47	
MW-14	11/11/15	29.02	11.68	10.07	10.07	0.00	18.95	Decrease	-0.42	

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
MW-15	05/10/12	28.53	29.70	7.90	7.90	0.00	20.63	NA	NA	2" Diameter well
MW-15	11/14/12	28.53	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-15	04/17/13	28.53	NM	NM	NM	NM	NA	NA	NA	Not gauged nor sampled
MW-15	06/26/14	28.53	29.39	9.85	9.85	0.00	18.68	NA	NA	
MW-15	12/05/14	28.53	29.57	9.39	9.39	0.00	19.14	Rise	0.46	
MW-15	12/31/14	28.53	29.4	7.95	7.95	0.00	20.58	Rise	1.44	
MW-15	01/23/15	28.53	29.4	8.85	8.85	0.00	19.68	Decrease	-0.90	
MW-15	02/20/15	28.53	29.4	9.05	9.05	0.00	19.48	Decrease	-0.20	
MW-15	06/12/15	28.53	29.64	9.85	9.85	0.00	18.68	Decrease	-0.80	
MW-15	08/10/15	28.53	29.69	10.38	10.38	0.00	18.15	Decrease	-0.53	Turbidity flashed "0.0"
MW-15	11/11/15	28.53	29.68	11.38	11.38	0.00	17.15	Decrease	-1.00	
MW-16	05/10/12	28.52	29.38	7.86	7.86	0.00	20.66	NA	NA	2" Diameter well
MW-16	11/14/12	28.52	29.37	8.92	8.92	0.00	19.60	Decrease	-1.06	
MW-16	04/17/13	28.52	24.75	7.63	7.63	0.00	20.89	Rise	1.29	
MW-16	06/26/14	28.52	29.37	9.04	9.04	0.00	19.48	Decrease	-1.41	
MW-16	12/05/14	28.52	29.4	8.20	8.20	0.00	20.32	Rise	0.84	
MW-16	12/31/14	28.52	29.4	7.65	7.65	0.00	20.87	Rise	0.55	
MW-16	01/23/15	28.52	29.4	8.45	8.45	0.00	20.07	Decrease	-0.80	
MW-16	02/20/15	28.52	29.4	8.50	8.50	0.00	20.02	Decrease	-0.05	
MW-16	06/12/15	28.52	29.67	9.33	9.33	0.00	19.19	Decrease	-0.83	
MW-16	08/10/15	28.52	26.5	9.88	9.88	0.00	18.64	Decrease	-0.55	
MW-16	11/11/15	28.52	29.63	10.34	10.34	0.00	18.18	Decrease	-0.46	
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	

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
EW-14	01/23/15	29.89	NM	NM	NM	ND	NA	NA	NA	
EW-14	02/20/15	29.89	NM	NM	NM	ND	NA	NA	NA	
EW-14	06/11/15	29.89	NM	NM	NM	ND	NA	NA	NA	
EW-14	08/10/15	29.89	NM	NM	NM	ND	NA	NA	NA	
EW-14	11/11/15	29.89	NM	NM	NM	ND	NA	NA	NA	
EW-15	05/10/12	28.66	24.50	8.06	8.06	0.00	20.60	NA	NA	4" Diameter well
EW-15	11/14/12	28.66	NM	NM	NM	ND	NA	NA	NA	Not Sampled and only gauged for LPH
EW-15	04/17/13	28.66	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
EW-15	06/25/14	28.66	24.14	9.03	9.03	0.00	19.63	NA	NA	
EW-15	12/05/14	28.66	NM	NM	NM	ND	NA	NA	NA	Converted to an injection well
EW-15	12/31/14	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	01/23/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	02/20/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	06/11/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	08/10/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-15	11/11/15	28.66	NM	NM	NM	ND	NA	NA	NA	
EW-16	05/10/12	28.99	24.80	8.37	8.37	0.00	20.62	NA	NA	4" Diameter well
EW-16	11/14/12	28.99	NM	NM	NM	ND	NA	NA	NA	Not Sampled and only gauged for LPH
EW-16	04/17/13	28.99	NM	NM	NM	ND	NA	NA	NA	Not gauged nor sampled
EW-16	06/26/14	28.99	22.74	9.29	9.29	0.00	19.70	NA	NA	
EW-16	12/05/14	28.99	NM	NM	NM	ND	NA	NA	NA	Converted to an injection well
EW-16	12/31/14	28.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	01/23/15	28.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	02/20/15	28.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	06/11/15	28.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	08/10/15	28.99	NM	NM	NM	ND	NA	NA	NA	
EW-16	11/11/15	28.99	NM	NM	NM	ND	NA	NA	NA	

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

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

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

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

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

Monitoring Well ID	Date	TOC Elevation (feet MSL)	Total Well Depth (feet)	Depth to Liquid (feet)	Depth to Water (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)	Change in Groundwater Elevation (feet)		Comments
EW-22	06/26/14	28.47	23.86	8.91	8.91	0.00	19.56	NA	NA	4" Diameter well
EW-22	12/05/14	28.47	NM	NM	NM	ND	NA	NA	NA	Converted to an extraction well
EW-22	12/31/14	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	01/23/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	02/20/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	06/11/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	08/10/15	28.47	NM	NM	NM	ND	NA	NA	NA	
EW-22	11/11/15	28.47	NM	NM	NM	ND	NA	NA	NA	
		Date		Gradient and Groundwater Flow Direction		Average Groundwater Elevation (feet MSL)		Change in Average GW Elevation (feet)		
		05/10/12		0.002	SW	20.72		NA		
		11/14/12		0.004	NE	19.78		-0.94		
		04/17/13		0.005/0.012	WSW/NE	20.46		0.68		
		06/26/14		Varies	Varies	19.60		-0.85		
		12/05/14		Varies	Varies	20.15		0.55		
		12/31/14		Varies	Varies	21.24		1.10		
		01/23/15		Varies	Varies	20.35		-0.89		
		02/20/15		Varies	Varies	20.21		-0.14		
		06/12/15		Varies	Varies	19.61		-0.61		
		08/10/15		Varies	Varies	19.05		-0.56		
11/11/15		Varies	Varies	18.51		-0.54				

**TABLE 3 -
GROUNDWATER ELEVATION DATA**

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

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

MSL=Mean Sea Level

NM = Not Measured

NA = Not Applicable

ND = Not Detected

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	
		Analytical Results (ug/L)																											
MW-2R	5/10/2012	57,000	9,400	6,500	1,100	5,100	<25	380	<25	<25	<25	<25	1,100	310	30	<25	<25	<25	<25	<25	<25	<25	96	51	270	<25	<25	<25	<25
MW-2R	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	6/25/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2R	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-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	<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	<0.50
MW-4R	4/17/2013	2,000	190	140	46	155	<10	62	<0.50	1.0	<0.50	<0.50	28	7.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.33 J	<0.50	30	4.6	51	7.0	<0.50	<0.50	<0.50
MW-4R	6/25/2014	740	55	0.37 ^J	1.7	0.59J	<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	<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	--	<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	<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	<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	<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	<2.5
MW-4R	8/11/2015	1,200	360	<5.0	<5.0	130	<50	200	<2.5	<2.5	<2.5	<2.5	<5.0	<5.0	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	62	<5.0	<5.0	<5.0	<2.5	<5.0	<2.5	<2.5
MW-4R	11/10/2015	7,900	1,600	1,900	430	1,300	<100	270	<5.0	<5.0	<5.0	<5.0	360	77	<10	<5.0	<10	<10	<5.0	--	<10	73	20	69	13	<5.0	<10	<5.0	<5.0
MW-5R	5/10/2012	33,000	150	2,700	2,500	11,100	<500	680	<25	<25	<25	<25	2,400	620	52	<25	<25	<25	<25	<25	<25	210	99	630	46	<25	<25	<25	<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	<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	<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	<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	<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	<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	<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	<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	<50
MW-5R	8/11/2015	39,000	1,200	4,100	2,900	17,000	<1,000	590	<50	<50	<50	<50	1,800	390	<100	<50	<100	<100	<50	--	<100	100	<100	210	<100	<50	<100	<50	<50
MW-5R	11/10/2015	48,000	1,800	7,700	3,800	24,000	<1,000	700	<50	<50	<50	<50	2,200	470	<100	<50	<100	<100	<50	--	<100	110	<100	270	<100	<50	<100	<50	<50

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
		Analytical Results (ug/L)																										
MW-6R	5/10/2012	3,600	8.6	52	120	680	<10	79	<0.50	<0.50	<0.50	<0.50	210	67	16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	20	25	50	9.9	<0.50	<0.50	<0.50
MW-6R	11/14/2012	900	2.4	7.1	83	131	<10	30	<0.50	<0.50	<0.50	<0.50	61	13	0.61	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	12	3.2	28	3.1	<0.50	<0.50	<0.50
MW-6R	4/17/2013	1,800	220	21	64	157	<10	29	<0.50	<0.50	<0.50	<0.50	60	14	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	24	2.1	27	7.6	<0.50	<0.50	<0.50
MW-6R	6/25/2014	1,700	4.3	9.4	55	181	<10	49	<0.50	<0.50	<0.50	<0.50	72	13	2.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	17	3.4	32	4.5	<0.50	<0.50	<0.50
MW-6R	12/4/2014	3,700	73	38	79	810	<10	160	<0.50	<0.50	<0.50	<0.50	210	74	1.2	<0.50	<0.50	<0.50	19	--	<1.0	66	16	140	10	<0.50	<1.0	<0.50
MW-6R	12/31/2014	1,800	5.0	22	9.0	250	<50	240	<2.5	<2.5	<2.5	<2.5	90	21	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	66	14	42	11	<2.5	<5.0	<2.5
MW-6R	1/22/2015	2,000	110	27	9.7	390	<50	260	<2.5	<2.5	<2.5	<2.5	140	30	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	59	13	9.2	13	<2.5	<5.0	<2.5
MW-6R	2/19/2015	2,700	54	53	18	730	<50	230	<2.5	<2.5	<2.5	<2.5	260	55	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	47	13	11	12	<2.5	<5.0	<2.5
MW-6R	6/11/2015	1,600	12	46	32	620	<50	120	<2.5	<2.5	<2.5	<2.5	170	29	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	30	9.4	17	8.7	<2.5	<5.0	<2.5
MW-6R	8/11/2015	1,700	22	91	60	580	<50	69	<2.5	<2.5	<2.5	<2.5	110	13	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	18	<5.0	8.9	<5.0	<2.5	<5.0	<2.5
MW-6R	11/10/2015	1,400	23	140	61	520	<50	100	<2.5	<2.5	<2.5	<2.5	96	5.6	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	19	6.2	9.1	6.1	<2.5	<5.0	<2.5
MW-7R	5/10/2012	160,000	14,000	42,000	3,900	26,700	<1,000	660	<25	<25	<25	<25	3,300	960	49	<25	<25	<25	<25	<25	<25	120	<25	370	26	<25	<25	<25
MW-7R	11/14/2012	84,000	15,000	26,000	3,700	19,300	<1,000	480	<100	<100	<100	<100	2,300	610	<100	<100	<100	<100	<100	<100	<100	120	48 J	370	<100	<100	<100	<100
MW-7R	4/17/2013	160,000	17,000	45,000	4,500	22,300	<1,000	350	<100	<100	<100	<100	2,000	580	<100	<100	<100	<100	<100	<100	<100	98 J	<100	300	<100	<100	<100	<100
MW-7R	6/25/2014	240,000	18,000	38,000	3,900	21,100	<1,000	630	<50	<50	<50	<50	2,200	560	180	<50	<50	<50	<50	<50	<50	89	<50	270	<50	<50	<50	<50
MW-7R	12/4/2014	110,000	15,000	36,000	4,000	21,000	<1,000	660	<50	<50	<50	<50	2,400	630	<100	<50	<100	<100	<50	--	<100	110	<100	320	<100	<50	<100	<50
MW-7R	12/31/2014	110,000	11,000	38,000	3,800	22,000	<5,000	690	<250	<250	<250	<250	2,100	560	<500	<250	<500	<500	<250	--	<500	<250	<500	<500	<500	<250	<500	<250
MW-7R	1/22/2015	110,000	11,000	42,000	4,000	23,000	<5,000	720	<250	<250	<250	<250	2,100	520	<500	<250	<500	<500	<250	--	<500	<250	<500	<500	<500	<250	<500	<250
MW-7R	2/19/2015	92,000	7,000	33,000	3,400	20,000	<5,000	520	<250	<250	<250	<250	1,900	460	<500	<250	<500	<500	<250	--	<500	<250	<500	<500	<500	<250	<500	<250
MW-7R	6/11/2015	78,000	3,200	29,000	3,800	23,000	<5,000	730	<250	<250	<250	<250	2,100	560	<500	<250	<500	<500	<250	--	<500	<250	<500	<500	<500	<250	<500	<250
MW-7R	8/11/2015	69,000	1,600	20,000	3,200	22,000	<5,000	520	<250	<250	<250	<250	1,700	400	<500	<250	<500	<500	<250	--	<500	<250	<500	<500	<500	<250	<500	<250
MW-7R	11/10/2015	55,000	650	11,000	2,500	21,000	<5,000	710	<250	<250	<250	<250	2,100	530	<500	<250	<500	<500	<250	--	<500	<250	<500	<500	<500	<250	<500	<250
MW-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	3.64 J	<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	0.26 J	3.7	0.67	0.91	<0.50	<0.50
MW-8	12/5/2014	1,900	22	52	11	63	<10	46	<0.50	<0.50	<0.50	<0.50	6.30	2.4	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	20	2.3	21	4.1	<0.50	<1.0	<0.50
MW-8	12/31/2014	960	9.8	5.9	2.0	12	<10	34	<0.50	<0.50	<0.50	<0.50	<0.50	0.70	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	12	1.4	13	2.3	<0.50	<1.0	<0.50
MW-8	1/22/2015	1,400	7.8	7.7	2.7	15	<10	45	<0.50	<0.50	<0.50	<0.50	<0.50	0.74	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	14	1.4	14	2.4	<0.50	<1.0	<0.50
MW-8	2/19/2015	1,600	7.2	7.8	2.8	16	22	50	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	15	1.6	16	2.6	<0.50	<1.0	<0.50
MW-8	6/11/2015	1,400	6.6	9.8	2.9	17	<10	39	<0.50	<0.50	<0.50	<0.50	<0.50	0.81	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	17	1.7	16	3.1	<0.50	<1.0	<0.50
MW-8	8/11/2015	1,600	15	15	3.7	23	18	83	<0.50	<0.50	<0.50	<0.50	<0.50	1.10	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	22	2.1	23	3.5	<0.50	<1.0	<0.50
MW-8	11/10/2015	1,600	20	8.1	2.5	14	13	44	<0.50	<0.50	<0.50	<0.50	<0.50	0.78	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	20	1.9	20	3.4	<0.50	<1.0	<0.50

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
		Analytical Results (ug/L)																										
MW-9	5/10/2012	<50	<0.50	<0.50	<0.50	<1.5	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-9	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-9	12/5/2014	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-9	12/31/2014	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-9	1/22/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-9	2/19/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-9	6/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-9	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	--	<1.0	1.7	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-9	11/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	0.82	<1.0	<1.0	1.3	<0.50	<1.0	<0.50
MW-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	<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
MW-10	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-10	12/5/2014	530	5.4	100	28	170	<10	7.4	<0.50	<0.50	<0.50	<0.50	22	6.5	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	1.5	<1.0	3.6	<1.0	<0.50	<1.0	<0.50
MW-10	12/31/2014	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-10	1/22/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-10	2/19/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-10	6/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-10	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-10	11/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	1.5	<0.50	<1.0	<0.50
MW-11R	5/10/2012	22,000	<25	170	910	6,300	<500	440	<25	<25	<25	<25	2,500	760	58	<25	<25	40	<25	<25	<25	92	<25	240	<25	<25	<25	<25
MW-11R	11/14/2012	29,000	2.6	330	1,400	9,700	<100	660	<5.0	<5.0	<5.0	<5.0	4,000	950	<5.0	<5.0	<5.0	36	<5.0	<5.0	<5.0	170	88	450	27	<5.0	<5.0	<5.0
MW-11R	4/17/2013	22,000	<5.0	6.5	580	3,970	<100	280	<5.0	<5.0	<5.0	<5.0	2,600	720	<5.0	<5.0	<5.0	25	<5.0	<5.0	<5.0	110	61	320	<5.0	<5.0	<5.0	<5.0
MW-11R	6/25/2014	15,000	<5.0	<5.0	260	1,130	<100	280	<5.0	<5.0	<5.0	<5.0	2,100	580	45	<5.0	<5.0	11	<5.0	<5.0	<5.0	72	<5.0	220	18	<5.0	<5.0	<5.0
MW-11R	12/4/2014	21,000	<50	340	520	5,100	<1,000	320	<50	<50	<50	<50	2,100	680	<100	<50	<100	<100	<50	--	<100	71	<100	170	<100	<50	<100	<50
MW-11R	12/31/2014	23,000	<50	240	480	5,400	<1,000	350	<50	<50	<50	<50	2,300	680	<100	<50	<100	<100	<50	--	<100	71	<100	190	<100	<50	<100	<50
MW-11R	1/22/2015	20,000	<50	330	730	5,100	<1,000	350	<50	<50	<50	<50	2,200	600	<100	<50	<100	<100	<50	--	<100	80	<100	200	<100	<50	<100	<50
MW-11R	2/20/2015	25,000	<50	580	980	6,700	<1,000	380	<50	<50	<50	<50	2,500	670	<100	<50	<100	<100	<50	--	<100	87	<100	200	<100	<50	<100	<50
MW-11R	6/12/2015	29,000	180	1,400	1,600	9,900	<1,000	470	<50	<50	<50	<50	2,900	770	<100	<50	<100	<100	<50	--	<100	120	<100	330	<100	<50	<100	<50
MW-11R	8/10/2015	38,000	660	4,600	2,000	14,000	<1,000	500	<50	<50	<50	<50	2,800	670	<100	<50	<100	<100	<50	--	<100	100	<100	310	<100	<50	<100	<50
MW-11R	11/11/2015	27,000	1,700	1,500	1,000	6,300	<1,000	420	<50	<50	<50	<50	1,900	460	<100	<50	<100	<100	<50	--	<100	83	<100	220	<100	<50	<100	<50

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

Monitoring Well/Sample ID	Sample Date	Analytical Results (ug/L)																											
		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	
MW-12	5/10/2012	2,700	600	4.7	160	207	<10	26	<0.50	<0.50	<0.50	<0.50	13	23	0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10	2.3	17	2.3	<0.50	<0.50	<0.50	
MW-12	11/14/2012	1,600	470	2.1	140	63.4	<20	26	<1.0	<1.0	<1.0	<1.0	2.3	20	0.40 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	8.5	2.1	14	2.1	<1.0	<1.0	1.2	
MW-12	4/17/2013	5,200	760	3.4	330	409	<40	40	<2.0	1.2 J	<2.0	<2.0	60	49	1.6 J	<2.0	<2.0	<2.0	<2.0	<2.0	1.8 J	22	3.7	36	7.4	<2.0	<2.0	<2.0	
MW-12	6/25/2014	2,700	350	4.8	200	51	<20	93	<1.0	<1.0	<1.0	<1.0	11	28	4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	17	3.9	23	3.2	<1.0	<1.0	<1.0	
MW-12	12/4/2014	1,700	260	150	160	130	<10	66	<0.50	<0.50	<0.50	<0.50	12	21	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	15	<5.0	20	2.3	<0.50	<1.0	<0.50	
MW-12	12/31/2014	680	120	<2.5	74	10	<50	34	<2.5	<2.5	<2.5	<2.5	<2.5	6.7	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	7.6	<5.0	11	<5.0	<2.5	<5.0	<2.5	
MW-12	1/22/2015	950	110	<2.5	110	12	<50	26	<2.5	<2.5	<2.5	<2.5	<2.5	12	<5.0	<2.5	<5.0	<5.0	<2.5	--	<5.0	9.4	<5.0	14	<5.0	<2.5	<5.0	<2.5	
MW-12	2/19/2015	410	43	<0.50	30	4.0	<10	7.7	1.4	1.0	<0.50	<0.50	<0.50	3.4	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	3.1	<1.0	4.2	<1.0	<0.5	<1.0	<0.5	
MW-12	6/12/2015	470	17	54	19	68	<10	5.2	4.5	2.0	<0.50	<0.50	5.5	1.8	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	1.5	<1.0	2.0	<1.0	<0.5	<1.0	<0.5	
MW-12	8/10/2015	350	25	59	18	130	<10	5.0	6.4	2.5	<0.50	<0.50	13	2.9	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	0.71	<1.0	1.0	<1.0	<0.5	<1.0	<0.5	
MW-12	11/11/2015	270	8.7	21	8.3	58	<10	4.2	4.0	2.8	<0.50	<0.50	4.7	0.99	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	1.1	<1.0	<1.0	<1.0	<0.50	<1.0	<0.5	
MW-13	5/10/2012	50	<0.50	<0.50	<0.50	<1.5	<10	<0.50	8.2	3.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-13	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<10	<0.50	0.48J	0.68	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-13	12/4/2014	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	1.1	1.1	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-13	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	1/23/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	2.6	1.6	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-13	2/20/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	2.3	1.2	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-13	6/12/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	5.5	2.0	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-13	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	8.2	2.8	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-13	11/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	7.2	2.9	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
MW-14	5/10/2012	<50	<0.50	<0.50	<0.50	<1.5	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-14	11/14/2012	<50	<0.50	<0.50	<0.50	<1.5	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-14	4/17/2013	60	<0.50	<0.50	2.9	15.7	<10	1.0	<0.50	<0.50	<0.50	<0.50	5.6	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.27 J	<0.50	0.60	<0.50	<0.50	<0.50	<0.50	
MW-14	6/25/2014	<50	<0.50	<0.50	<0.50	<1.5	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-14	12/4/2014	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	
MW-14	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	1/23/2015	4,700	2,300	91	160	560	<500	<50	<25	<25	<25	<25	200	<25	<50	<25	<50	<50	<25	--	<50	<25	<50	<50	<50	<25	<50	<25	
MW-14	2/20/2015	12,000	6,200	230	76	1,500	<500	190	<25	<25	<25	<25	490	75	<50	<25	<50	<50	<25	--	<50	46	<50	<50	<50	<25	<50	<25	
MW-14	6/12/2015	3,800	1,500	31	140	140	<500	160	<25	<25	<25	<25	68	38	<50	<25	<50	<50	<25	--	<50	55	<50	<50	<50	<25	<50	<25	
MW-14	8/10/2015	5,900	2,700	130	600	430	<500	210	<25	<25	<25	<25	400	83	<50	<25	<50	<50	<25	--	<50	47	<50	70	<50	<25	<50	<25	
MW-14	11/11/2015	3,300	920	25	280	360	<500	140	<25	<25	<25	<25	320	28	<50	<25	<50	<50	<25	--	<50	<25	<50	<50	<50	<25	<50	<25	

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
		Analytical Results (ug/L)																										
MW-15	5/10/2012	1,800	1.6	1.4	130	38	<10	14	4.4	2.2	<0.50	<0.50	6.2	23	3.0	<0.50	<0.50	<0.50		<0.50	<0.50	22	3.2	28	7.0	<0.50	<0.50	<0.50
MW-15	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	6/25/2014	140	<0.50	<0.50	<0.50	<0.50	<10	0.36J	0.72	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.26J	<0.50	<0.50	<0.50
MW-15	12/5/2014	260	1.6	34	10	57	11	3.7	1.2	<0.50	1.5	3.9	8.0	2.1	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	1.1	<1.0	<1.0	<1.0	<0.50
MW-15	12/31/2014	440	9.9	110	17	110	<10	5.3	1.2	<0.50	<0.50	<0.50	16	3.7	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	0.64	<1.0	1.7	<1.0	<0.50	<1.0	<0.50
MW-15	1/23/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	3.0	0.59	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<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	<1.0	<0.50	<1.0	<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	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-15	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	5.2	1.1	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-15	11/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	5.1	1.2	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<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	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-16	12/31/2014	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<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	<1.0	<0.50	<1.0	<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	<1.0	<0.50	<1.0	<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	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-16	8/10/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	0.56	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
MW-16	11/11/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	1.1	0.74	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
EW-14	5/10/2012	33,000	4,200	3,300	2,200	10,100	<500	280	<25	<25	<25	<25	1,200	300	<25	<25	<25	<25	<25	<25	<25	73	<25	190	<25	<25	<25	<25
EW-14	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	6/25/2014	19,000	5,200	80	290	558	<200	270	<10	<10	<10	<10	79	26	<10	<10	<10	<10	<10	<10	<10	53	11	100	8.4J	<10	<10	<10
EW-14	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-14	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

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

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
		Analytical Results (ug/L)																										
EW-18	6/25/2014	21,000	140	23	1,100	3,960	<50	480	<2.5	<2.5	<2.5	<2.5	730	240	23	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	140	58	370	23	<2.5	<2.5	<2.5
EW-18	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-18	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	6/25/2014	12,000	620	160	460	1,770	<20	480	<1.0	<1.0	<1.0	<1.0	360	110	9.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	120	40	310	22	<1.0	<1.0	<1.0
EW-19	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-19	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	6/25/2014	3,900	400	8.1	24	79	<20	190	<1.0	2.7	<1.0	<1.0	12	4.2	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	82	9.6	120	14	<1.0	0.94J	<1.0
EW-20	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-20	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	6/25/2014	60	0.46J	0.25J	0.31J	0.7	<10	0.4J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.53	<0.50	<0.50	<0.50
EW-21	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-21	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
		Analytical Results (ug/L)																										
EW-22	6/25/2014	50	0.59	0.41J	1.1	1.76	<10	0.55	<0.50	<0.50	<0.50	<0.50	0.35J	0.29J	<0.50	0.77	<0.50	8.0	<0.50	<0.50	<0.50	0.31J	0.46J	1.2	0.27J	<0.50	<0.50	<0.50
EW-22	12/5/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	1/23/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	2/20/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	8/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-22	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
INF	12/4/2014	270	<0.50	<0.50	<0.50	14	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	6.8	<1.0	<0.50	<1.0	2.4	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
INF	1/2/2015	810	58	27	5.4	68	<10	9.4	1.0	1.2	<0.50	<0.50	3.1	18	<1.0	<0.50	<1.0	2.3	<0.50	--	<1.0	0.85	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
INF	1/22/2015	980	97	27	4.2	110	<10	18	0.83	1.5	<0.50	<0.50	1.5	39	<1.0	<0.50	<1.0	2.4	<0.50	--	<1.0	0.75	2.5	<1.0	<1.0	<0.50	<1.0	<0.50
INF	2/19/2015	750	91	15	7.2	78	<10	1.9	0.71	0.98	<0.50	<0.50	1.5	32	<1.0	<0.50	<1.0	2.0	<0.50	--	<1.0	0.56	1.9	<1.0	<1.0	<0.50	<1.0	<0.50
INF	3/25/2015	750	20	3.9	1.6	87	<10	3.7	<0.50	<0.50	<0.50	<0.50	0.9	39	<1.0	<0.50	<1.0	2.3	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
INF	4/23/2015	760	2.6	1.3	<0.50	100	<10	5.5	<0.50	0.62	<0.50	<0.50	<0.50	44	<1.0	<0.50	<1.0	2.0	<0.50	--	<1.0	<0.50	2.2	<1.0	<1.0	<0.50	<1.0	<0.50
INF	5/21/2015	370	0.57	<0.50	<0.50	25	<10	1.6	0.67	<0.50	<0.50	<0.50	<0.50	17	<1.0	<0.50	<1.0	1.7	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
INF	6/18/2015	630	4.0	2.7	<0.50	100	<10	5.1	0.88	<0.50	<0.50	<0.50	2.4	30	<1.0	<0.50	<1.0	2.1	<0.50	--	<1.0	<0.50	1.6	<1.0	<1.0	<0.50	<1.0	<0.50
INF	7/16/2015	740	6.0	6.6	<0.50	170	<10	9.1	0.84	<0.50	<0.50	<0.50	9.3	39	<1.0	<0.50	<1.0	1.9	<0.50	--	<1.0	<0.50	2	<1.0	<1.0	<0.50	<1.0	<0.50
INF	8/27/2015	750	8.0	4.8	<0.50	100	<10	17	1.00	<0.50	<0.50	<0.50	<0.50	43	<1.0	<0.50	<1.0	1.6	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
INF	9/24/2015	950	20	8.9	<0.50	190	<10	20	1.00	<0.50	<0.50	<0.50	5.4	43	<1.0	<0.50	<1.0	1.7	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
INF	10/22/2015	910	33	13	<0.50	250	<10	27	1.3	0.65	<0.50	<0.50	51	30	<1.0	<0.50	<1.0	1.4	<0.50	--	<1.0	<0.50	1.5	<1.0	<1.0	<0.50	<1.0	<0.50
INF	11/19/2015	650	17	12	<0.50	160	<10	15	0.89	<0.50	<0.50	<0.50	20	22	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	1.2	<1.0	<1.0	<0.50	<1.0	<0.50
INF	12/17/2015	370	2.5	2.0	<0.50	61	<10	2.2	0.76	0.58	<0.50	<0.50	2.1	21	<1.0	<0.50	<1.0	1.3	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
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	<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	<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	<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	<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	<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	<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	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
GAC	8/27/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
GAC	9/24/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
GAC	10/22/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
GAC	11/19/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<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	12/17/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	

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

Monitoring Well/Sample ID	Sample Date	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	Vinyl Acetate	Naphthalene	MTBE	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Bromodichloromethane	Bromoform	Chloroform	2-Chlorotoluene	Di-isopropylether	Hexachlorobutadiene	Isopropylbenzene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
		Analytical Results (ug/L)																										
EFF	12/4/2014	<2500	<25	<25	<25	<50	<500	<50	<25	<25	<25	<25	<25	<25	<50	<25	<50	<50	<25	--	<50	<25	<50	<50	<50	<25	<50	<25
EFF	1/2/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
EFF	1/22/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
EFF	2/19/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
EFF	3/25/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
EFF	4/23/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
EFF	5/21/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
EFF	6/18/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
EFF	7/16/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
EFF	8/27/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
EFF	9/24/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
EFF	10/22/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
EFF	11/19/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
EFF	12/17/2015	<50	<0.50	<0.50	<0.50	<1.0	<10	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	--	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
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, Residential Land Use, Environmental Screening Level (groundwater is a current or potential source of drinking water, Table F-1A)

BOLD indicates concentration exceeds the ESL.

NE = ESL not established.

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

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

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

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument						
		(mg/l)											Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia							
MW-2R	5/10/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2R	11/14/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2R	4/17/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2R	6/25/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2R	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2R	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2R	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2R	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2R	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2R	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2R	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4R	6/25/2014	4.90	1.4	0.91	0.50	<0.20	<0.10	9.70	4.90	<0.10	0.22	20.60	603.0	6.72	--	--	--	
MW-4R	12/4/2014	25.00	7.8	1.10	730	<1.0	0.27	13	1.0	24	<0.20	21.99	1560.0	7.39	--	-71	*	
MW-4R	12/30/2014	1.87	1.6	<1.0	80	<1.0	<0.020	22	1.4	0.47	<0.20	21.02	422.0	4.81	214	5	*	
MW-4R	1/22/2015	1.60	1.6	<1.0	82	2.0	<0.020	27	1.6	<0.10	<0.20	20.10	544.0	4.72	32.4	83	6.44	
MW-4R	2/19/2015	<0.20	1.7	<1.0	83	2.2	<0.020	32	<0.10	<0.10	<0.20	19.74	639.0	6.79	1.56	15	1.18	
MW-4R	6/11/2015	<0.20	1.4	<1.0	64	2.0	0.024	32	<0.10	<0.10	1.5	20.25	639.0	6.90 ¹	0.28	196	3.62	
MW-4R	8/11/2015	1.2	1.3	1.00	5.0	<1.0	0.061	33	0.43	0.77	4.5	21.72	570.0	6.58	2.64	-22	1.06	
MW-4R	11/10/2015	50	2.0	4.0	6.1	<1.0	0.065	10	23	27	9.5	21.61	697.0	6.19	1,000	-58	6.97	

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)										Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia						
MW-5R	6/25/2014	<0.50	<0.50	1.5	<0.20	<0.20	<0.10	8.40	<0.50	<0.10	0.17	20.00	434.4	10.62	--	-230.5	*
MW-5R	12/4/2014	15.6	4.1	1.1	210	5.7	0.51	16	15	0.6	0.24	21.23	1200.0	7.39	--	-118.0	*
MW-5R	12/30/2014	19.3	4.8	1.3	560	7.5	0.42	55	16	3.3	<0.20	19.82	1540.0	4.54	64.7	-111.0	7.53
MW-5R	1/22/2015	9.74	2.8	<1.0	310	32	0.28	50	9.5	0.24	<0.20	18.67	1260.0	4.58	28.9	-95.0	5.67
MW-5R	2/19/2015	11.14	2.8	<1.0	210	17	0.32	47	11	0.14	0.22	18.39	1140.0	6.94	28.2	-109.0	2.91
MW-5R	6/11/2015	3.79	0.99	<1.0	1.5	18	0.15	35	3	0.99	0.28	20.40	460.0	--	49.9	-52.0	48.00
MW-5R	8/11/2015	3.8	0.88	<1.0	19	1.3	0.35	31	2.6	1.2	<0.20	22.91	739.0	6.92	50.1	-98.0	0.95
MW-5R	11/10/2015	3.4	0.8	<1.0	4.8	1.3	0.22	23	2.8	0.64	0.33	20.87	712.0	6.63	61.6	-72.0	4.81
MW-6R	6/25/2014	2.9	1.3	0.71	<0.20	<0.20	<0.10	12	2.9	<0.10	0.45	20.20	530.7	6.87	--	-114.1	*
MW-6R	12/4/2014	2.84	3.1	<1.0	150	3.4	0.21	26	2.5	0.34	0.24	21.77	909.0	7.24	--	-66.0	*
MW-6R	12/30/2014	<0.20	1.2	3.7	250	56	4.1	33	<0.10	<0.10	7.2	20.32	971.0	4.80	34.2	47.0	6.99
MW-6R	1/22/2015	<0.20	2.7	1	200	32	0.93	74	<0.10	<0.10	2.1	19.70	929.0	4.55	0.4	93.0	5.19
MW-6R	2/19/2015	<0.20	2.2	1.3	270	24	1.4	69	<0.10	<0.10	4.6	19.42	1050.0	6.72	0.15	80.0	2.16
MW-6R	6/11/2015	0.73	0.93	1.5	350	2.2	1.6	44	0.73	<0.10	1.8	21.56	975.0	7.03 ¹	2.05	121.0	2.98
MW-6R	8/11/2015	0.91	1.1	1.1	240	1.4	1.7	43	0.91	<0.10	0.69	23.96	678.0	5.89	22.1	101.0	1.04
MW-6R	11/10/2015	<0.50	1.4	<1.0	270	2.8	0.88	39	<0.10	<0.10	0.43	22.77	823.0	5.65	14.6	124.0	0.58

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)										Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia						
MW-7R	6/25/2014	35	3.4	2	<0.20	<0.20	<0.10	<2.0	35	<.010	0.39	19.60	774.0	6.61	--	-87.2	*
MW-7R	12/4/2014	29	3	<1.0	28	<1.0	0.16	<0.1	<0.10	29	0.5	20.62	695.0	7.13	--	-78.0	*
MW-7R	12/30/2014	15.2	3.3	<1.0	250	<1.0	0.13	28	3.2	12	<0.20	19.56	777.0	5.00	20.9	-41.0	6.65
MW-7R	1/22/2015	18.56	3.9	<1.0	330	10	0.038	31	18	0.56	0.34	18.69	1050.0	4.62	11.1	-37.0	4.82
MW-7R	2/19/2015	17	3.5	<1.0	330	10	0.1	27	14	3	<0.20	18.53	986.0	6.54	21.1	-51.0	1.29
MW-7R	6/11/2015	19.9	2.9	1.7	350	2.7	<0.020	31	15	4.9	1.0	22.96	943.0	6.14 ¹	11.9	-24.0	1.89
MW-7R	8/11/2015	8.9	2.1	1.7	270	3	0.083	25	4.5	4.4	1.2	22.57	850.0	6.01	8.07	-20.0	0.95
MW-7R	11/10/2015	24	1.8	2.1	190	3.8	0.025	24	24	0.35	1.5	22.08	716.0	5.87	49.5	1.0	0.34
MW-8	6/25/2014	6.1	1.1	0.71	<0.20	<0.20	<0.10	4.1	6.1	<0.10	0.34	22.60	444.9	6.77	--	-112.0	*
MW-8	12/5/2014	5.6	1	<1.0	<1.0	<1.0	0.83	1.7	0.7	4.9	0.24	22.73	321.0	7.20	--	-96.0	*
MW-8	12/30/2014	8.3	0.89	<1.0	<1.0	<1.0	0.2	12	3.1	5.2	<0.20	19.67	328.0	4.98	334	-40.0	6.2
MW-8	1/22/2015	7.8	0.83	<1.0	<1.0	<1.0	0.18	12	3	4.8	<0.20	19.86	400.0	4.68	259	-49.0	4.6
MW-8	2/19/2015	14	1	1.5	2.1	<1.0	0.14	13	8	6	0.26	19.85	401.0	6.97	366	-66.0	4.53
MW-8	6/11/2015	21	1.5	1.7	2.4	<1.0	0.032	12	9	12	0.28	0.93	240.0	6.65 ¹	249	-88.0	2.35
MW-8	8/11/2015	29	1.7	3	<1.0	<1.0	0.25	1.2	10	19	0.28	18.82	313.0	8.18	477	-150.0	5.93
MW-8	11/10/2015	81	1.8	6.5	<1.0	<1.0	0.044	2.7	63	18	0.3	21.90	462.0	6.56	805	-96.0	7.06

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)										Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia						
MW-9	6/26/2014	44	10	4	0.5	<0.20	<0.10	28	44	<0.10	0.04	19.60	495.5	6.71	--	142.3	*
MW-9	12/5/2014	51	9.7	4.6	4.1	<1.0	0.075	38	51	<0.10	<0.20	19.91	456.0	6.94	--	43.0	*
MW-9	12/30/2014	5.20	0.95	1.1	3.2	<1.0	0.06	35	5.2	<0.10	<0.20	18.66	401.0	4.93	557	151.0	6.82
MW-9	1/22/2015	9.40	1.3	1	3	<1.0	0.057	42	9.4	<0.10	<0.20	18.40	478.0	4.67	441	132.0	5.55
MW-9	2/19/2015	66	5.3	5.7	4.1	<1.0	0.088	47	66	<0.10	<0.20	18.67	490.0	7.11	816	55.0	4.12
MW-9	6/11/2015	45.16	4.7	3.6	12	<1.0	<0.020	33	45	0.16	<0.20	25.29	162.0	6.92 ¹	814	84.0	5.54
MW-9	8/10/2015	38	4.1	3.2	3.4	<1.0	0.063	52	37	1.2	<0.20	22.15	365.0	7.23	611	111.0	3.89
MW-9	11/10/2015	23	4	1.8	<1.0	<1.0	0.064	87	22	0.93	<0.20	22.14	138.0	6.82	956	71.0	4.75
MW-10	6/26/2014	42	0.65	4.5	2.1	<0.20	0.4	11	42	<0.10	<0.03	20.30	306.7	6.24	--	131.3	*
MW-10	12/5/2014	<0.20	<0.020	<1.0	10	<1.0	0.021	14	<0.10	<0.10	<0.20	20.80	271.0	7.35	--	73.0	*
MW-10	12/30/2014	3.7	0.2	<1.0	12	<1.0	<0.020	13	3.7	<0.10	<0.20	18.90	292.0	4.73	147	127.0	8.73
MW-10	1/22/2015	5.3	0.18	<1.0	12	<1.0	0.032	13	5.3	<0.10	<0.20	18.88	306.0	4.74	414	192.0	5.11
MW-10	2/19/2015	35	0.47	3.5	12	<1.0	0.05	13	35	<0.10	<0.20	18.59	303.0	6.80	936	133.0	4.72
MW-10	6/11/2015	67.11	0.82	5.4	11	<1.0	<0.020	19	67	0.11	<0.20	21.99	0.0	6.60 ¹	34.1	115.0	6.23
MW-10	8/10/2015	40	0.59	4.3	7.6	<1.0	0.035	28	40	<0.10	<0.20	21.72	272.0	6.79	1000	129.0	3.92
MW-10	11/10/2015	43	0.67	4.5	25	<1.0	0.024	32	43	<0.10	<0.20	21.56	242.0	6.77	0	133.0	6.00

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)										Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia						
MW-11R	6/26/2014	120	2	10	0.66	<0.20	<0.10	<2.0	120	<0.10	0.03	18.70	153.3	7.01	--	-80.3	*
MW-11R	12/4/2014	0.91	0.78	<1.0	1.4	<1.0	0.14	4.2	<0.1	0.91	<0.20	19.78	185.0	7.14	--	-46.0	*
MW-11R	12/31/2014	13	1.6	1.3	2.4	<1.0	0.089	6.4	4.4	8.6	<0.20	17.90	288.0	5.27	1000	-32.0	9.39
MW-11R	1/23/2015	20	1.3	1.3	<1.0	<1.0	0.027	2.8	8	12	<0.20	16.10	223.0	5.78	0	162.0	10.15
MW-11R	2/20/2015	3.1	0.55	<1.0	<1.0	<1.0	0.11	2	2	1.1	<0.20	17.63	161.0	6.98	131	-35.0	3.18
MW-11R	6/12/2015	1.4	0.81	<1.0	<1.0	<1.0	0.15	1.2	<0.10	1.4	<0.20	20.51	186.0	6.94 ¹	2.46	-14.0	1.83
MW-11R	8/10/2015	2.2	1.5	<1.0	1.3	<1.0	0.12	1.1	<0.10	2.2	<0.20	20.17	332.0	5.94	7.25	-45.0	1.53
MW-11R	11/11/2015	2.9	1.8	<1.0	<1.0	<1.0	0.11	6.6	0.40	2.5	<0.20	20.28	341.0	6.69	45.3	-61.0	4.08
MW-12	6/26/2014	15	1.7	2.2	2	<0.20	<0.10	2.2	15	<0.10	<0.03	19.20	544.4	6.39	--	5.4	*
MW-12	12/4/2014	0.69	1	<1.0	29	<1.0	<0.020	10	0.32	0.37	<0.20	20.13	393.0	7.05	--	26.0	*
MW-12	12/31/2014	6.21	1.5	<1.0	13	<1.0	0.028	8.6	5.7	0.51	<0.20	18.71	362.0	5.32	136	91.0	8.40
MW-12	1/23/2015	7.3	1.5	<1.0	12	<1.0	<0.020	9.3	6.2	1.1	<0.20	17.75	425.0	4.72	789	19.0	6.54
MW-12	2/19/2015	96.91	3.1	8.0	2.3	<1.0	0.034	7.6	96	0.91	<0.20	19.07	422.0	6.75	567	8.0	4.56
MW-12	6/12/2015	1.1	1.3	<1.0	2.2	<1.0	0.035	9.3	<0.10	1.1	2.20	19.94	522.0	6.75 ¹	271	27.0	3.93
MW-12	8/10/2015	0.85	1.1	<1.0	<1.0	<1.0	0.035	15	<0.10	0.78	<0.20	20.70	536.0	6.03	7.09	-8.0	3.41
MW-12	11/11/2015	1	1.4	<1.0	<1.0	<1.0	0.033	9.8	<0.10	0.91	<0.20	20.35	526.0	6.67	9.82	-7.0	0.43

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument					
		(mg/l)										Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia						
MW-13	6/26/2014	3.8	<0.5	1.2	1.2	<0.20	0.14	10	3.8	<0.10	0.04	18.50	242.2	6.62	--	124.4	*
MW-13	12/4/2014	170.19	2.7	11	17	<1.0	0.19	13	170	0.19	0.27	19.85	308.0	6.80	--	55.0	*
MW-13	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	1/23/2015	23	0.71	2.3	6.8	<1.0	0.081	12	23	<0.10	<0.20	17.66	291.0	6.75	808	149.0	9.02
MW-13	2/20/2015	29	1.2	3.1	4.4	<1.0	0.082	12	29	<0.10	<0.20	18.72	366.0	6.84	475	181.0	5.41
MW-13	6/12/2015	53.14	1.8	7.4	<1.0	5.6	<0.020	12	53	0.14	<0.20	21.73	5.0	--	17.5	86.0	6.04
MW-13	8/10/2015	29	0.95	3.7	38	1.2	0.086	16	29	<0.10	<0.20	20.25	643.0	6.51	0	171.0	7.91
MW-13	11/11/2015	2.7	1.2	21	130	6.0	0.086	24	2.7	<0.10	<0.20	16.61	859.0	6.76	890	114.0	9.93
MW-14	6/26/2014	28	1.2	2.3	7.7	<0.20	<0.10	15	28	<0.10	0.06	17.70	251.6	6.69	--	142.2	*
MW-14	12/4/2014	26.19	1.1	1.8	49	<1.0	0.046	20	26	0.19	<0.20	19.54	187.0	6.70	--	44.5	*
MW-14	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	1/23/2015	29.14	1	2.2	6.2	<1.0	<0.020	13	29	0.14	<0.20	17.58	385.0	6.86	503	187.0	10.3
MW-14	2/20/2015	23.19	1.9	1.9	21	<1.0	<0.020	12	23	0.19	<0.20	17.78	617.0	6.82	246	191.0	5.99
MW-14	6/12/2015	34.1	1.8	2.7	<1.0	<1.0	<0.020	11	28	6.1	<0.20	25.76	0.0	--	9.53	8.0	6.18
MW-14	8/10/2015	27.3	1.7	2.5	<1.0	<1.0	0.031	11	21	6.3	<0.20	19.15	1.0	7.50	10.7	28.0	8.84
MW-14	11/11/2015	7.0	1.6	<1.0	<1.0	<1.0	0.035	9.7	3.6	3.4	<0.20	16.33	0.0	7.83	23.3	-32.0	9.70

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument						
		(mg/l)											Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia							
MW-15	6/26/2014	54	0.77	5.2	<0.20	<0.20	<0.10	3.9	54	<0.10	<0.03	19.00	260.1	6.87	--	-76.1	*	
MW-15	12/5/2014	1.3	0.36	<1.0	<1.0	<1.0	0.095	5.5	<0.10	1.3	<0.20	19.95	250.0	7.32	--	-59.0	*	
MW-15	12/31/2014	0.78	0.22	<1.0	<1.0	<1.0	0.082	5.3	<0.10	0.78	<0.20	19.93	208.0	5.38	24.2	-41.0	7.82	
MW-15	1/23/2015	29.8	0.58	3.3	<1.0	<1.0	0.035	16	26	3.8	<0.20	19.89	329.0	7.09	932	-3.0	7.65	
MW-15	2/20/2015	28.6	0.6	3.3	<1.0	<1.0	0.029	23	25	3.6	<0.20	19.81	425.0	6.99	551	8.0	5.02	
MW-15	6/12/2015	55.4	0.8	5	4.3	4.3	<0.020	42	54	1.4	<0.20	20.88	299.0	--	575	119.0	3.12	
MW-15	8/10/2015	46	0.72	5.3	13	1.6	0.036	50	45	0.77	<0.20	21.39	600.0	6.69	0	100.0	5.62	
MW-15	11/11/2015	10	0.40	1.3	25	1.5	0.059	57	9.5	0.48	<0.20	20.47	638.0	6.97	1000	72.0	5.91	
MW-16	6/26/2014	<0.5	<0.5	<0.5	<0.20	<0.20	<0.10	3.1	<0.5	<0.10	<0.03	18.30	401.5	6.68	--	-70.7	*	
MW-16	12/5/2014	2.64	0.3	<1.0	<1.0	<1.0	0.037	6.5	2.5	0.14	<0.20	19.01	330.0	7.30	--	9.0	*	
MW-16	12/31/2014	2.15	0.29	<1.0	<1.0	<1.0	0.038	8.1	1.6	0.55	<0.20	16.51	272.0	5.06	309	58.0	8.25	
MW-16	1/23/2015	5.49	0.27	<1.0	<1.0	<1.0	<0.020	9.5	5.3	0.19	<0.20	18.11	300.0	6.77	202	133.0	10.10	
MW-16	2/20/2015	4.86	0.31	<1.0	<1.0	<1.0	<0.020	10	4.7	0.16	<0.20	17.77	337.0	6.82	88.9	102.0	3.66	
MW-16	6/12/2015	3.44	0.29	<1.0	<1.0	<1.0	0.040	10	3.3	0.14	<0.20	19.37	312.0	6.84 ¹	90.6	130.0	2.95	
MW-16	8/10/2015	2.5	0.21	<1.0	1.40	<1.0	0.040	9.7	2.5	<0.10	<0.20	19.72	287.0	5.98	68.8	149.0	5.02	
MW-16	11/11/2015	0.74	0.22	<1.0	2.0	<1.0	0.039	8.0	0.74	<0.10	<0.20	18.10	276.0	6.77	142	91.0	6.11	

TABLE 5 – BIOATTENUATION MONITORING

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

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument						
		(mg/l)											Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia							
EW-16	6/26/2014	3.5	1.4	0.77	<.020	<0.20	15	19	3.5	<0.10	<0.15	20.1	916.0	6.80	--	-89.3	*	
EW-16	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-16	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-16	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-16	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-16	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-16	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-16	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-17	6/25/2014	31	1.6	0.75	<0.20	<0.20	<0.10	3.4	31	<0.10	0.34	19.5	1,494.0	7.09	--	-119.0	*	
EW-17	12/4/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-17	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-17	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-17	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-17	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-17	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-17	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 5 – BIOATTENUATION MONITORING

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

TABLE 5 – BIOATTENUATION MONITORING

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

TABLE 5 – BIOATTENUATION MONITORING

Monitoring Well/Sample ID	Sample Date	EPA 200.7			EPA Method 300.0				Ferric Iron by Calculation	SM 3500-Fe D	SM 4500-NH3 D	Field Instrument						
		(mg/l)											Temperature (°C)	Conductivity (µs/cm)	pH	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen* mg/L
		Iron	Manganese	Potassium	Nitrate	Nitrite	Phosphate	Sulfate	Ferric Iron	Ferrous Iron	Nitrogen, Ammonia							
EW-22	12/31/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-22	1/22/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-22	2/19/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-22	6/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-22	8/11/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-22	11/10/2015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Notes:

ID – identification

EPA – United States Environmental Protection Agency

mg/l – milligrams per liter

SM – Standard Method

°C - degrees centigrade

µs/cm – microsiemens

NTU - nephelometric turbidity units

ORP – oxidation-reduction potential

mV – millivolts

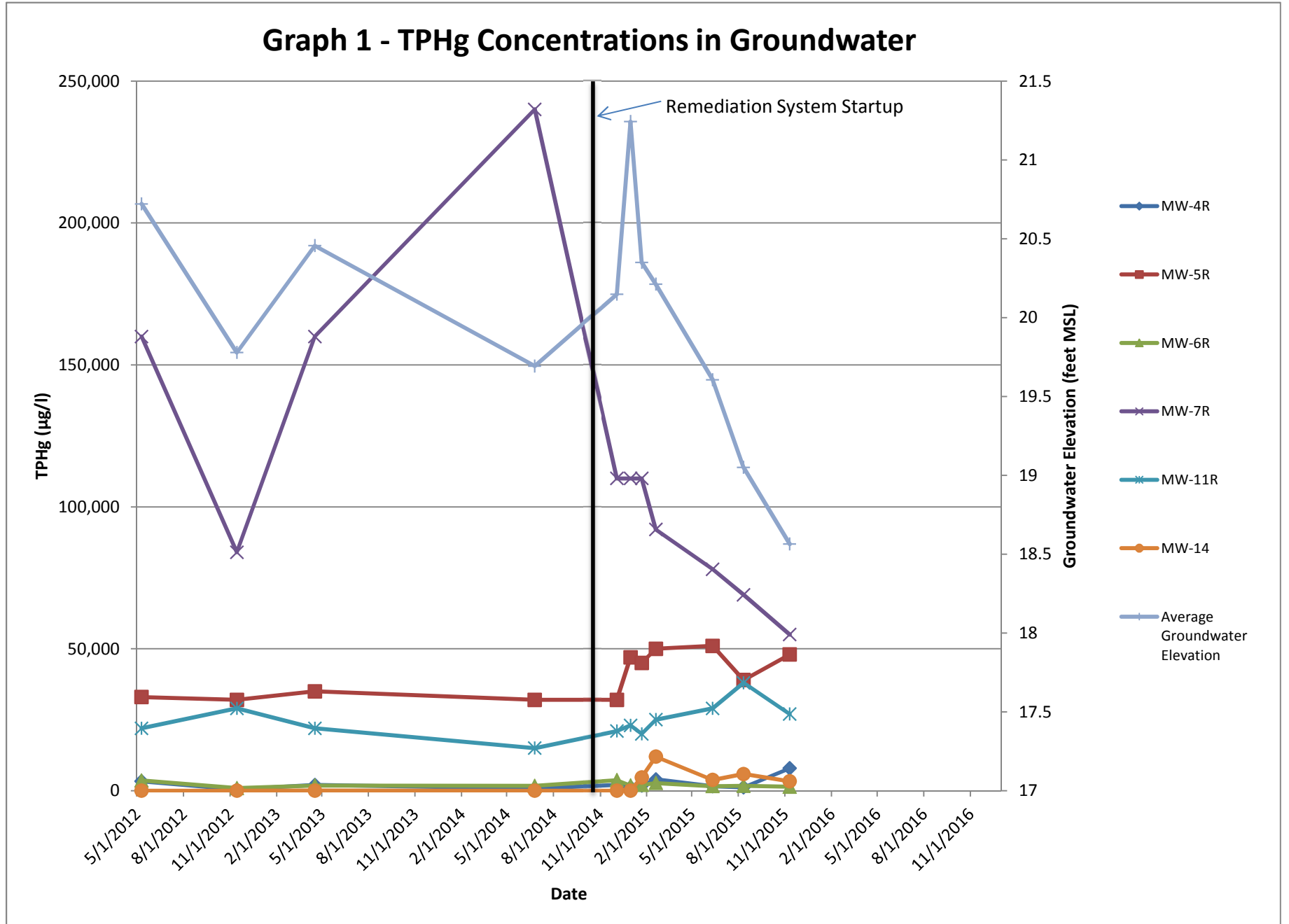
% - percent

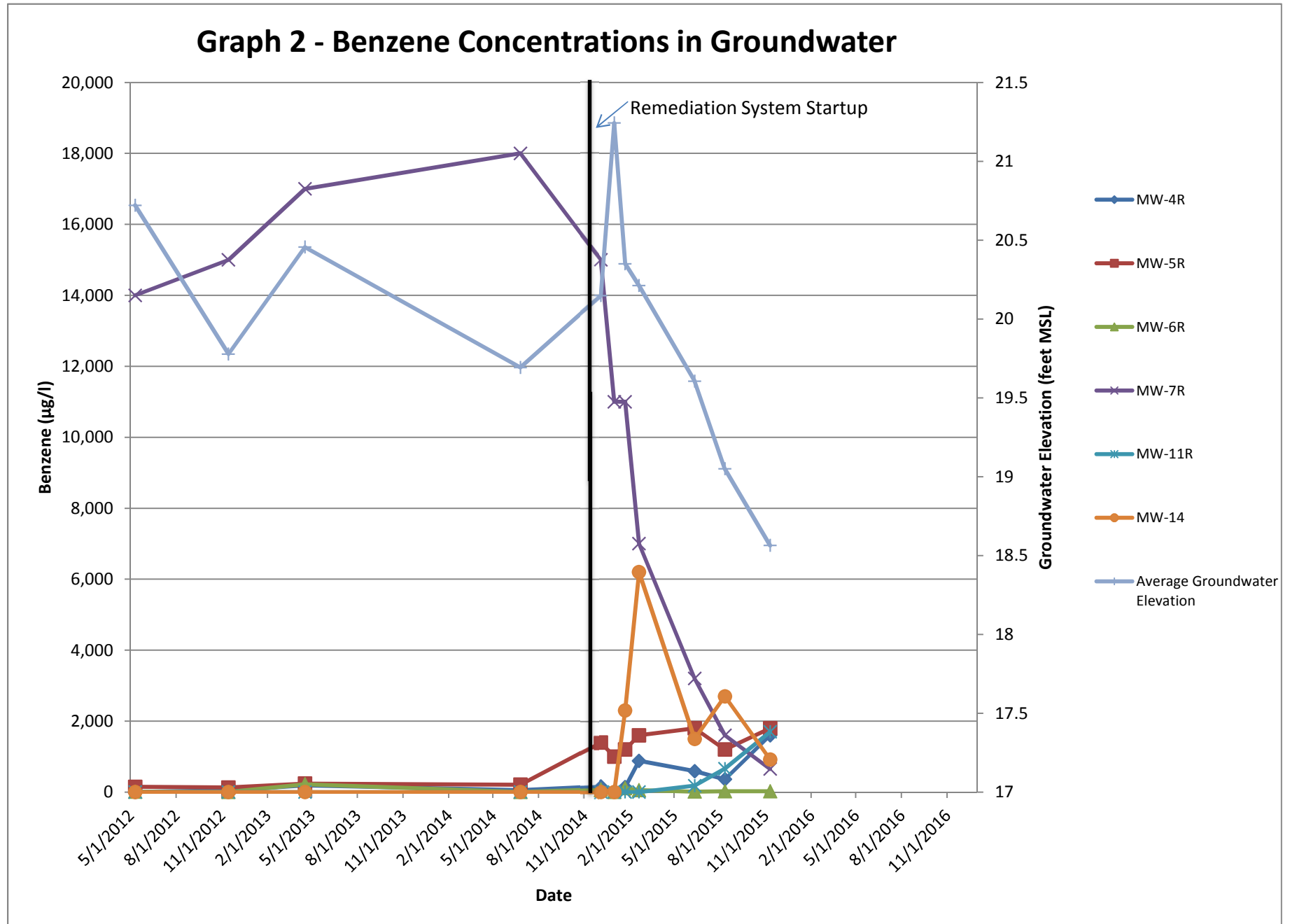
<X - not detected at or above the laboratory reporting limit of X

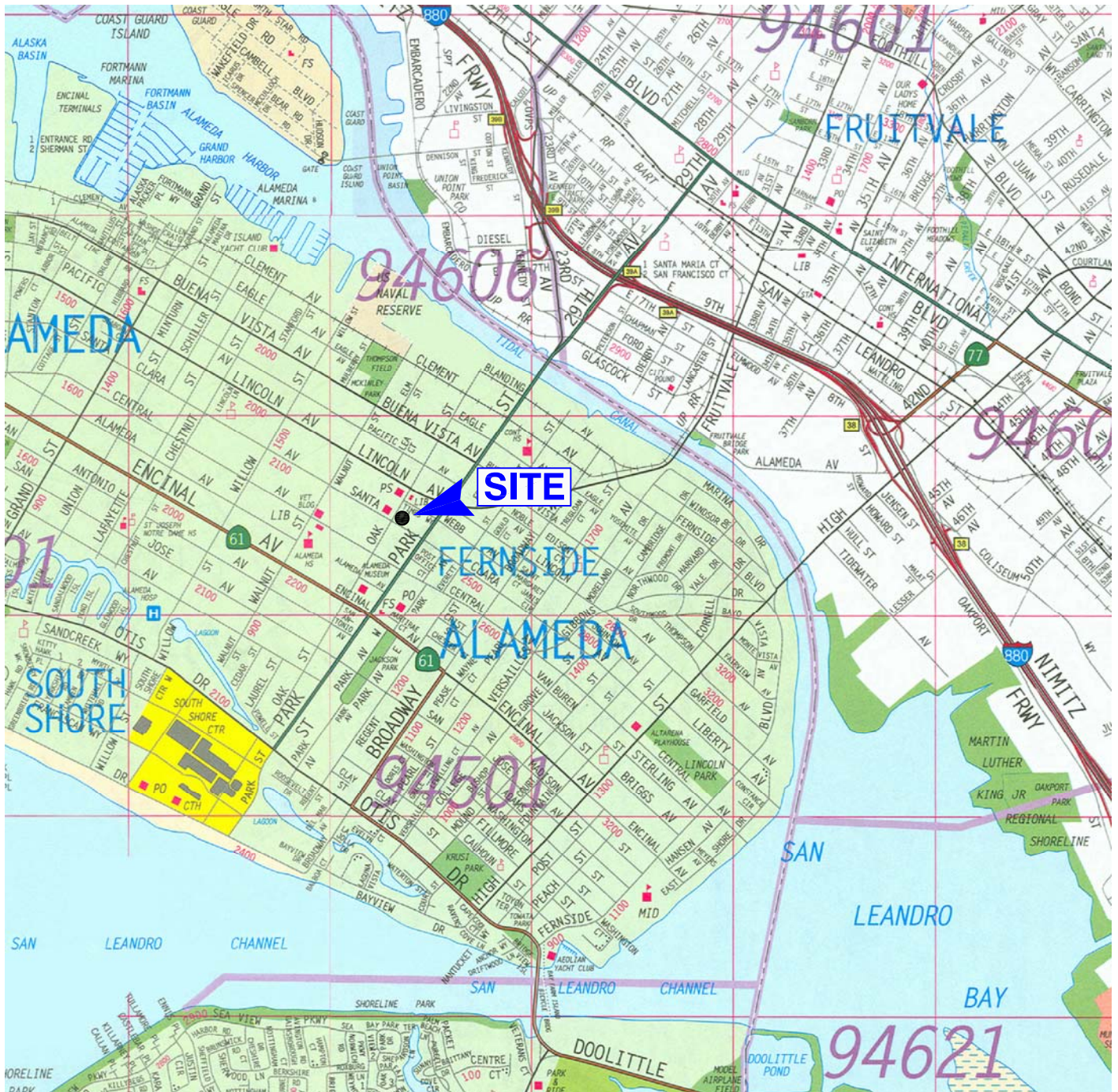
1 - pH readings taken on 6/22/15 and not on sample date.

-- – Not analyzed or not applicable

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



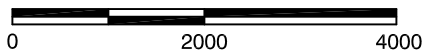




REFERENCE: METRO AREAS OF ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO, AND SANTA CLARA COUNTIES, THOMAS GUIDE, 2008.



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore

SITE LOCATION

FIGURE

PROJECT NO.

DATE

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

1

401896004

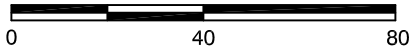
1/16



REFERENCE: GOOGLE EARTH, 2012.



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

APPROXIMATE SITE BOUNDARY

Ninyo & Moore

SITE VICINITY

FIGURE

PROJECT NO.

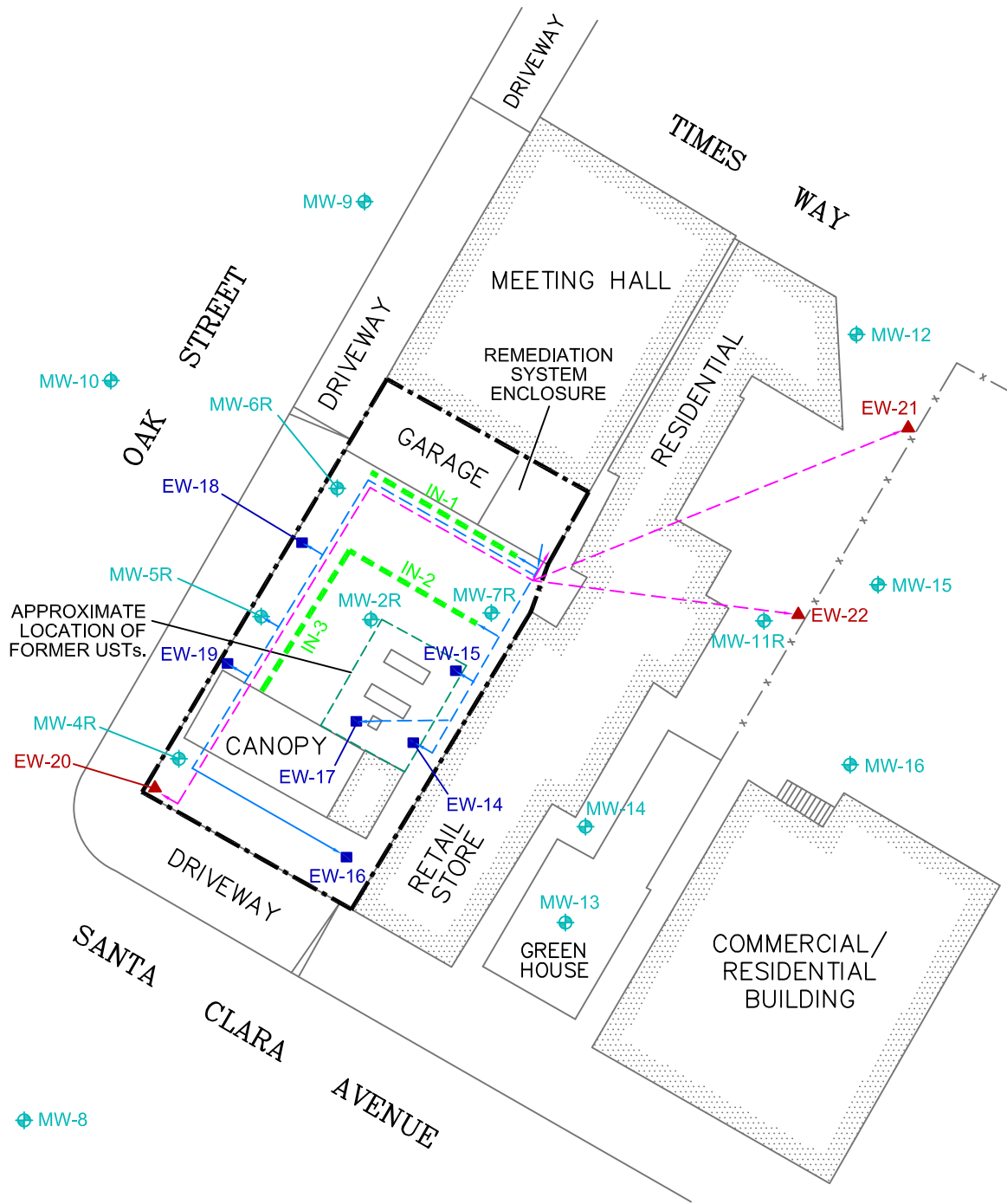
DATE

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

2

401896004

1/16



LEGEND	
---	APPROXIMATE SITE BOUNDARY
— x —	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

3

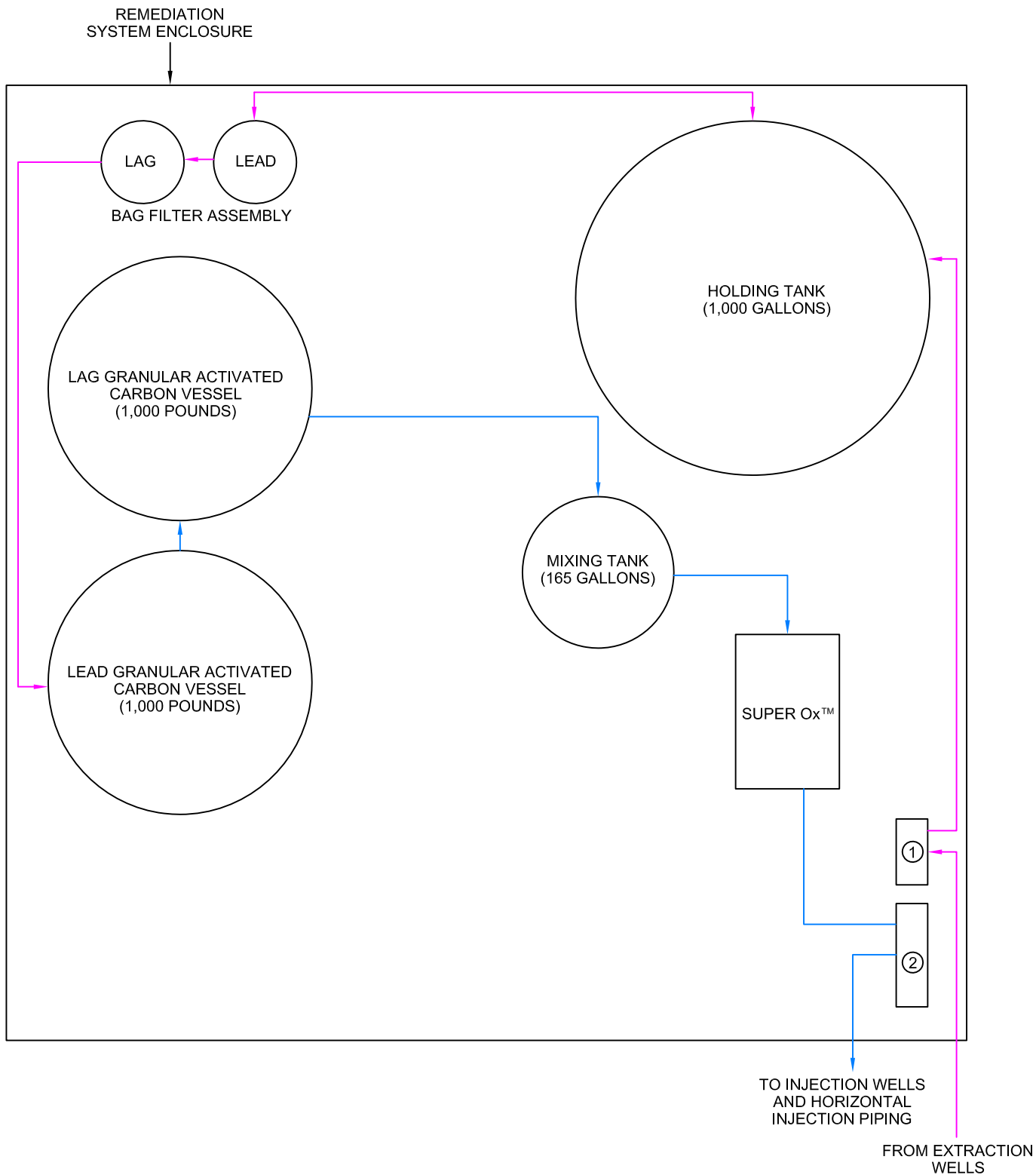
PROJECT NO.

DATE

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

401896004

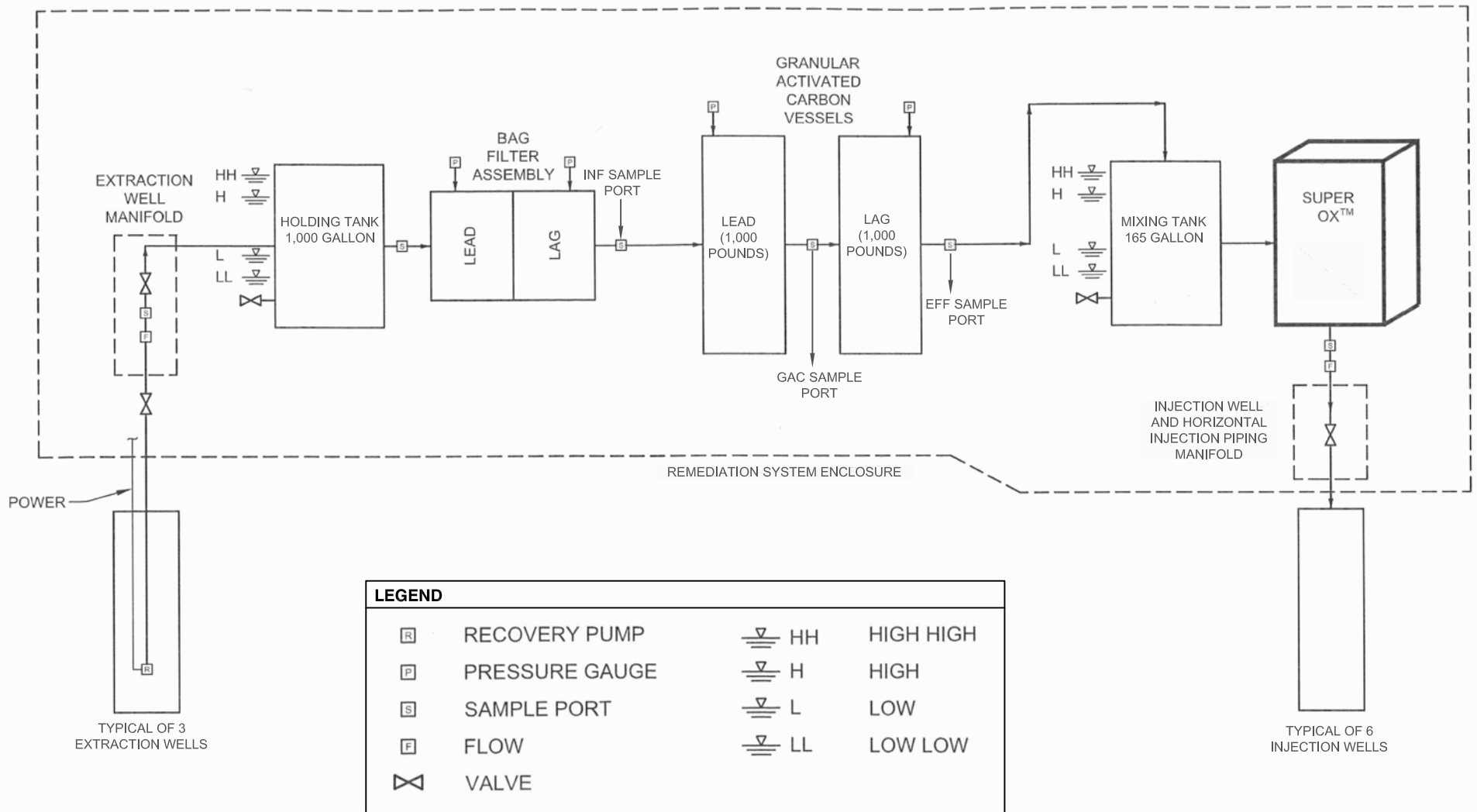
1/16



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

		REMEDICATION SYSTEM PLAN	FIGURE 4
PROJECT NO.	DATE	2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA	
401896004	1/16		

401896004-FIG4.dwg Jan 22, 2016 2:59pm snguyen



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

Ninyo & Moore

REMEDIATION SYSTEM SCHEMATIC

FIGURE

NOT TO SCALE

PROJECT NO.

DATE

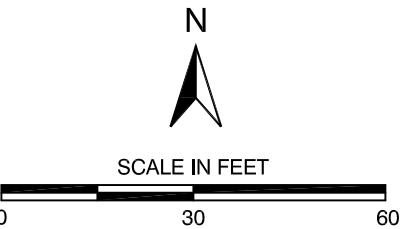
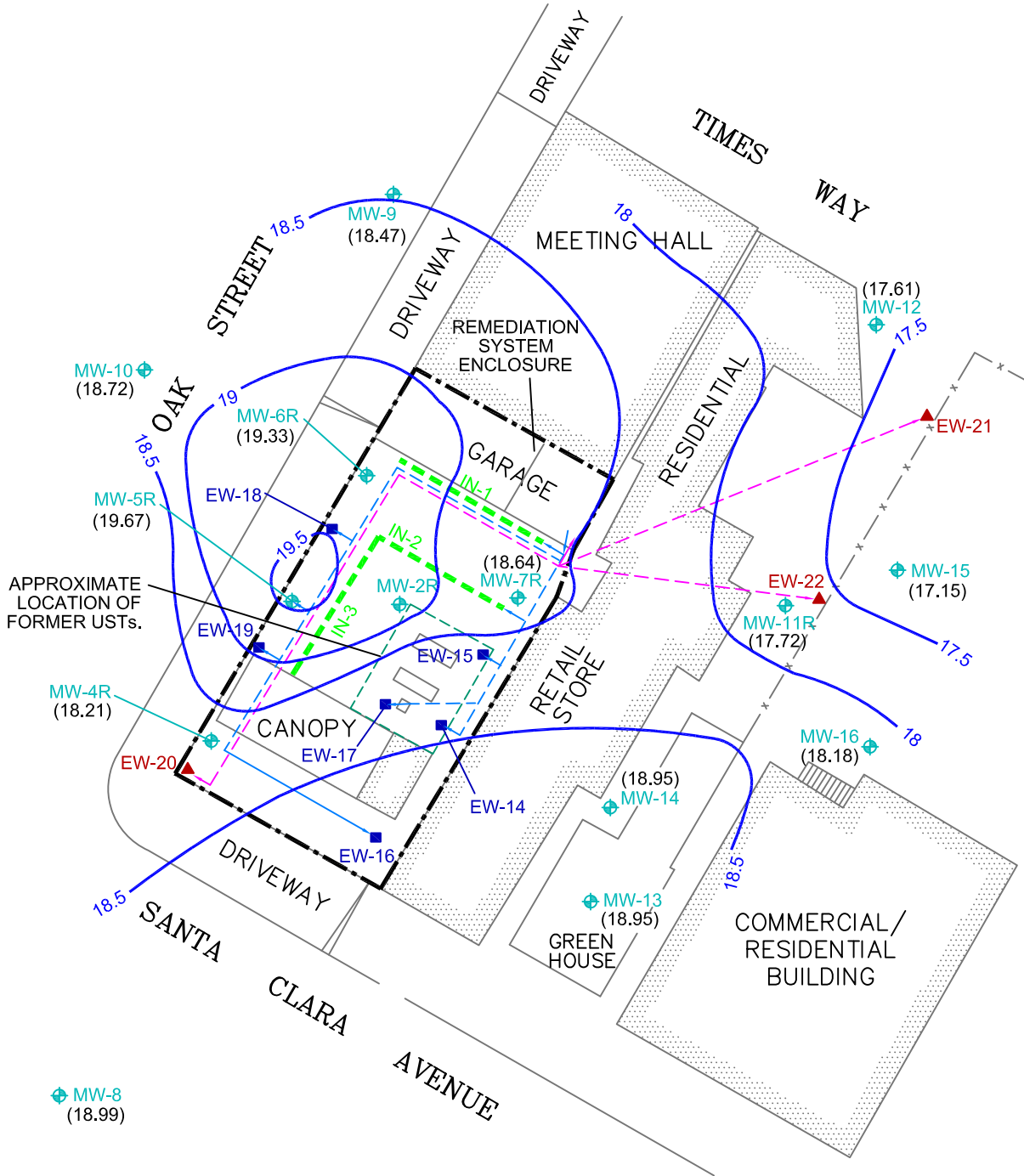
2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

401896004

1/16

5

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

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

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.

		GROUNDWATER ELEVATION CONTOUR (11/10/15 - 11/11/15)	FIGURE 6	
PROJECT NO.	DATE			2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA
401896004	1/16			

401896004-FIG6.dwg Jan 22, 2016 3:00pm snguyen

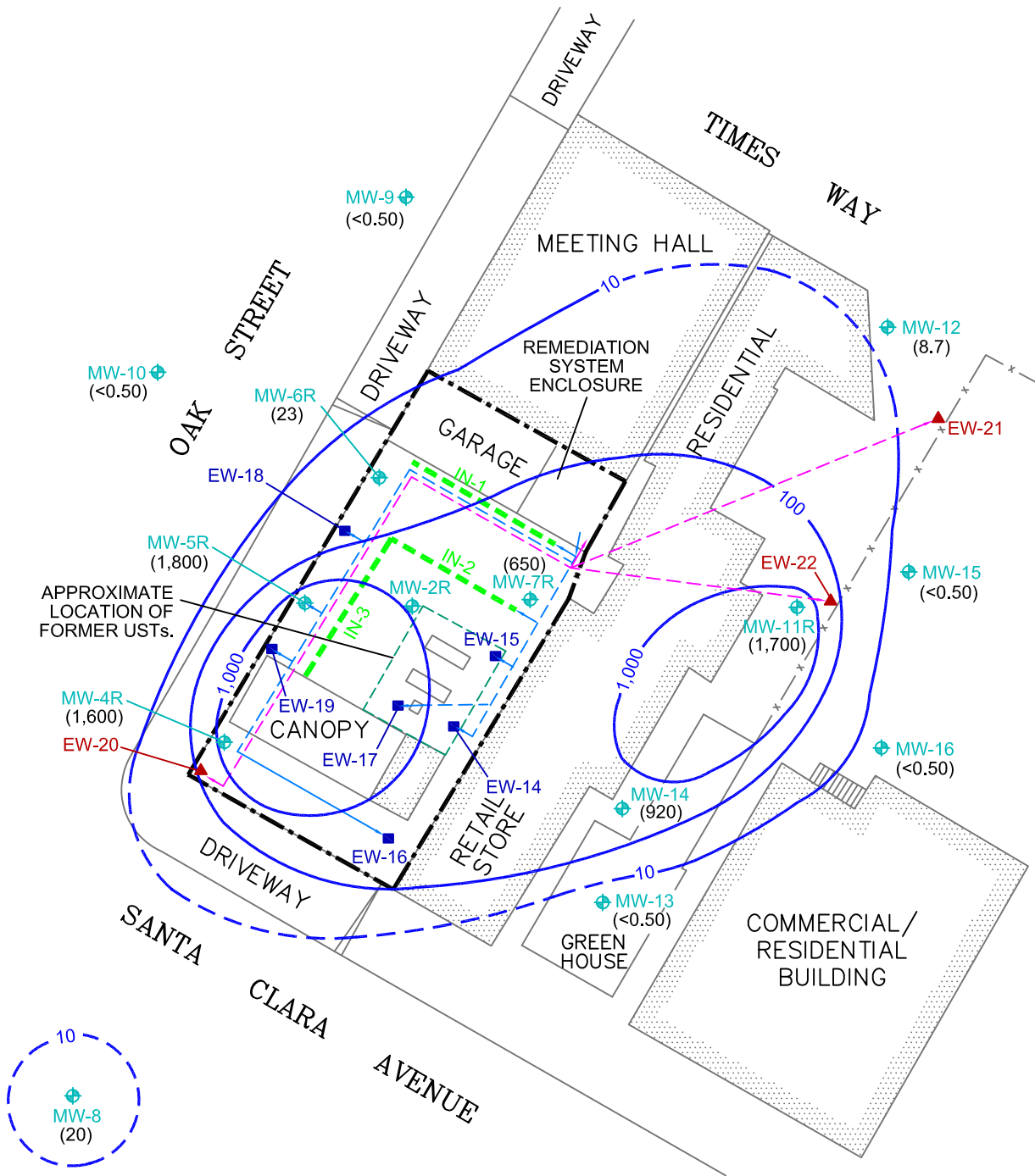


NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.

<i>Ninyo & Moore</i>		TOTAL PETROLEUM HYDROCARBONS AS GASOLINE CONCENTRATIONS IN GROUNDWATER (11/10/15 - 11/11/15)	FIGURE
PROJECT NO.	DATE	2301 SANTA CLARA AVENUE ALAMEDA, CALIFORNIA	7
401896004	1/16		

401896004-FIG7.dwg, Jan 22, 2016, 3:00pm, snguyen



REFERENCE: VIRGIL CHAVEZ LAND SURVEYING, 2012.

Ninyo & Moore

BENZENE CONCENTRATIONS IN GROUNDWATER (11/10/15 - 11/11/15)

FIGURE

8

PROJECT NO.

DATE

2301 SANTA CLARA AVENUE
ALAMEDA, CALIFORNIA

401896004

1/16

APPENDIX A

HISTORICAL CONSTITUENTS OF CONCERN CONCENTRATIONS

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

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	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	6,500	1,600	5,000	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
8/20/2005	35,000	14,000													
3/13/2006	72,000	17,000													
6/11/2006	65,000	21,000													
9/5/2006	62,000	17,000													
1/4/2007	46,000	6,500	4,200	980	4,890	ND	ND	ND	ND	ND	ND	ND	600	340	1,400
7/8/2007	57,000	11,000	11,000	2,200	9,600	ND	ND	ND	ND	ND	ND	ND			
9/23/2007	22,000	4,700	4,100	950	4,100	ND	ND	ND	ND	ND	ND	2.7			
9/6/2008	8,300	2,300	740	160	700	ND	ND	ND	ND	ND	ND	ND			
9/26/2009	4,100	1,600	310	150	610	ND	ND	ND	ND	ND	ND	ND			
2/27/2010	1,600	1,200	110	9.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/21/2010	3,100	1,300	54	ND	640	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	12,000	5,200	1,700	270	1,790	ND	ND	ND	ND	ND	ND	ND	230	68	230

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was abandoned in May 2012.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - MW-2

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	140,000	21,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	41,000	5,600													
9/21/2003	27,000	2,400													
12/25/2003	46,000	6,100													
4/24/2004	44,000	8,400													
8/8/2004	21,000	6,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8/20/2005	31,000	10,000													
3/13/2006	50,000	15,000													
6/11/2006	37,000	12,000													
9/5/2006	24,000	8,100													
1/4/2007	17,000	4,300	2,400	590	2,100	ND	ND	ND	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	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
Analytical Results (µg/L)															
9/17/2000	9,300	3,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	10,000	2,300													
9/21/2003	2,700	320													
12/25/2003	3,300	290													
4/24/2004	3,100	1,000													
8/8/2004	2,500	400	27	140	740	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
8/20/2005	5,500	3,000													
3/13/2006	6,400	2,100													
6/11/2006	7,000	2,000													
9/5/2006	6,000	1,500													
1/4/2007	5,500	1,400	ND	77	297	ND	ND	ND	ND	ND	ND	ND	180	ND	78
7/8/2007	5,600	1,500	87	180	740	ND	ND	ND	38	ND	ND	ND			
9/22/2007	5,600	1,300	35	57	189	ND	ND	ND	28	ND	ND	ND			
9/6/2008	2,600	500	13	19	125	ND	ND	ND	20	ND	ND	ND			
9/26/2009	2,200	240	12	14	104	ND	ND	ND	4.6	ND	ND	ND			
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	ND	ND	63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2005	1,100	1.5													
3/13/2006	320	ND													
6/12/2006	1,500	0.9													
9/5/2006	760	ND													
1/4/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7/8/2007	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/23/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/5/2008	170	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	MBE	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	750	1,000	4,400	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
8/20/2005	19,000	130													
3/14/2006	21,000	61													
6/12/2006	14,000	91													
9/5/2006	15,000	56													
1/4/2007	20,000	110	680	1,200	4,250	ND	ND	ND	ND	ND	ND	ND	600	330	1,600
7/8/2007	23,000	72	1,200	ND	5,300	ND	ND	ND	ND	ND	ND	ND			
9/24/2007	6,100	490	770	950	4,140	ND	ND	ND	ND	ND	ND	ND			
9/5/2008	740	ND	1.1	0.8	22	ND	ND	ND	ND	ND	ND	ND			
9/27/2009	4,000	7.9	47	120	670	ND	ND	ND	ND	ND	ND	ND			
2/27/2010	2,100	5.8	34	86	400	ND	ND	ND	ND	ND	ND	ND	86	86	370
8/20/2010	840	0.7	0.5	ND	162	ND	ND	ND	ND	ND	ND	ND	92	26	130
4/21/2011	2,500	6.8	32	13	431	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
													93	45	69

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

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

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

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	10,000	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/4/2002	3,900	29													
9/20/2003	500	15													
12/25/2003	1,200	18													
4/24/2004	110	3.6													
8/8/2004	320	2.7													
8/20/2005	810	ND	ND	ND	180	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
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-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	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/17/2000	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	NA	NA	NA
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	MBE	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	NA	NA	NA
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	NA	NA	NA
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	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MtBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
10/24/2002	59,000	5,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/22/2003	46,000	1,700													
12/25/2003	14,000	1,400													
4/24/2004	38,000	5,000													
8/8/2004	29,000	3,100													
8/20/2005	31,000	5,100	1,500	3,400	17,800	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
3/14/2006	47,000	5,600	2,400	1,900	10,100	ND	ND	ND	ND	ND	ND	ND			
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	NA	NA	NA
3/14/2006	400	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	11			
6/12/2006	ND	6.8	ND	ND	ND	ND	ND	ND	2.2	ND	ND	2.9			
9/7/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
1/5/2007	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	0.92	ND	ND	ND	ND	ND	ND
9/22/2007	ND	8.6	ND	ND	ND	ND	ND	ND	2.8	ND	ND	3.5	ND	ND	ND
9/4/2008	ND	ND	ND	ND	ND	ND	21	ND	3.6	ND	ND	5.0	ND	ND	ND
9/25/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/27/2010	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/20/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

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

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

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

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

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

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

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

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

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

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

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

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

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

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

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was abandoned in May 2012.

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

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

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This well was abandoned in May 2012.

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

Date	TPH _g	Benzene	Toluene	Ethylbenzene	Total Xylenes	TAME	TBA	EDB	EDC	DIPE	EtBE	MBE	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene
	Analytical Results (µg/L)														
9/22/2003	68,000	4,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/25/2003	26,000	5,300													
4/24/2004	9,400	4,100													
8/8/2004	14,000	6,300													
8/22/2005	26,000	7,100													
3/13/2006	1,300	360	110	35	119	13	ND	ND	ND	ND	ND	ND	NA	NA	NA
6/11/2006	2,300	1,100	260	45	198	ND	ND	ND	3.3	ND	ND	ND			
9/6/2006	20,000	4,700	4,200	980	3,800	ND	ND	ND	ND	ND	ND	ND			
1/4/2007	30,000	7,000	4,500	1,100	5,000	ND	ND	ND	ND	ND	ND	ND			
7/9/2007	54,000	14,000	8,800	2,400	10,000	ND	ND	ND	ND	ND	ND	ND	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	11,000	2,300	11,200	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
9/6/2006	51,000	8,200													
1/5/2007	30,000	9,700													
7/9/2007	46,000	5,200	3,800	2,500	11,500	ND	ND	ND	ND	ND	ND	ND	500	630	2,300
9/23/2007	59,000	14,000	5,800	3,600	16,000	ND	ND	ND	4.1	ND	ND	2.5	660	440	2,400
9/6/2008	19,000	7,100	1,000	57	2,730	ND	ND	ND	3.1	ND	ND	4.4	180	130	280
9/26/2009	8,800	1,400	530	280	2,650	ND	ND	ND	ND	ND	ND	ND	96	140	480
2/27/2010	720	250	57	50	113	ND	ND	ND	ND	ND	ND	ND	6.3	1.6	1.5
8/22/2010	1,600	200	4.1	ND	357	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
4/21/2011	3,600	680	870	27	780	ND	ND	ND	ND	ND	ND	ND	25	21	31

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - EW-16

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

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

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS - EW-17

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND VOLATILE ORGANIC COMPOUNDS

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

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

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

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

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This monitoring well was not located in May 2012

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

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

Notes:

µg/L = micrograms per liter

NA = not analyzed

ND = concentration not detected above laboratory reporting limits

Analytical data was taken from historical monitoring reports in Geotracker.

This monitoring well was not located in May 2012.

APPENDIX B

OPERATIONS AND MAINTENANCE FIELD FORMS

Field Form for Treatment System Operations and Maintenance

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

Visit Type: ☐ weekly ☒ monthly ☐ quarterly ☐ unplanned

Date: 10/08/15

Field Tech: Emily Dinksen

Time: 15:45

Wells

Well ID	METER READING	Pressure (psi)	GW Depth (ft)	DO (mg/L)	pH (units)	ORP (mV)	EC (µS/cm)
Extraction							
EX-20	<u>480320</u>	--	--	--	--	--	--
EX-22	<u>1163200</u>	--	--	--	--	--	--
EX-21	<u>22570</u>	--	--	--	--	--	--
		--	--	--	--	--	--
		--	--	--	--	--	--
Injection							
IN-18 + IN-19	<u>27970</u>	--	--	--	--	--	--
IN-16	<u>102560</u>	--	--	--	--	--	--
Trenches 2+3	<u>144010</u>	--	--	--	--	--	--
Trench 1 + IN 17	<u>143380</u>	--	--	--	--	--	--
IN 14 +15	<u>106310</u>	--	--	--	--	--	--

Treatment System

Totalizer (digital): 503000 gal
DO-IT System Pressure: 0 psi (analog)
O2 Flow: 7 scfh

GAC Lead Pressure: 0 psi
GAC Polish Pressure: 0 psi
Bag Filter 1 Pressure: 04 psi
Bag Filter 2 Pressure: 32 psi
Mixing Tank pH: _____
Holding Tank pH: _____

Weekly Maintenance Checklist

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

- ☒ Add Amendment to Mixing Tank
50 lbs CBN nutrient mix
_____ 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: 10 / 22 / 15

Field Tech: Emily Duxsen

Time: 15:30

Wells

Well ID	METER READING	Pressure (psi)	GW Depth (ft)	DO (mg/L)	pH (units)	ORP (mV)	EC (μS/cm)
Extraction							
EX-20	<u>480700</u>	--	--	--	--	--	--
EX-22	<u>173450</u>	--	--	--	--	--	--
EX-21	<u>237580</u>	--	--	--	--	--	--
		--	--	--	--	--	--
		--	--	--	--	--	--
Injection							
IN-18 + IN-19	<u>28190</u>	--	--	--	--	--	--
IN-16	<u>63800</u>	--	--	--	--	--	--
Trenches 2+3	<u>153400</u>	--	--	--	--	--	--
Trench 1 + IN 17	<u>151190</u>	--	--	--	--	--	--
IN 14 +15	<u>111890</u>	--	--	--	--	--	--

Treatment System

Totalizer (digital): 525970 gal
DO-IT System Pressure: 40 psi (analog)
O2 Flow: 4.2 scfh

GAC Lead Pressure: 10 psi
GAC Polish Pressure: 0 psi
Bag Filter 1 Pressure: 52 psi
Bag Filter 2 Pressure: 30 psi

Mixing Tank pH _____
Holding Tank pH _____

Weekly Maintenance Checklist

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

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

Quarterly Maintenance Checklist

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

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

Visit Type: ☐ weekly ☐ monthly ☐ quarterly ☒ unplanned

Date: 10 / 27 / 15

Field Tech: Peter Sims

Time: 11 : 53

Wells

Well ID	METER READING	Pressure (psi)	GW Depth (ft)	DO (mg/L)	pH (units)	ORP (mV)	EC (µS/cm)
Extraction							
EX-20	<u>480 760</u>	--	--	--	--	--	--
EX-22	<u>1769 10</u>	--	--	--	--	--	--
EX-21	<u>2419 90</u>	--	--	--	--	--	--
		--	--	--	--	--	--
		--	--	--	--	--	--
Injection							
IN-18 + IN-19	<u>28 300</u>	--	--	--	--	--	--
IN-16	<u>64 440</u>	--	--	--	--	--	--
Trenches 2+3	<u>156 130</u>	--	--	--	--	--	--
Trench 1 + IN 17	<u>153 940</u>	--	--	--	--	--	--
IN 14 +15	<u>113 820</u>	--	--	--	--	--	--

Treatment System

Totalizer (digital): 534 290 gal
 DO-IT System Pressure: NA psi (analog)
 O2 Flow: --- scfh

GAC Lead Pressure: 66^{PS} 4 psi
 GAC Polish Pressure: 0 psi
 Bag Filter 1 Pressure: 66 psi
 Bag Filter 2 Pressure: 21 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: 10/29/15

Field Tech: Peter Sims

Time: 9:37

Wells

Well ID	METER READING	Pressure (psi)	GW Depth (ft)	DO (mg/L)	pH (units)	ORP (mV)	EC (µS/cm)
Extraction							
EX-20	<u>480770</u>	--	--	--	--	--	--
EX-22	<u>177720</u>	--	--	--	--	--	--
EX-21	<u>243020</u>	--	--	--	--	--	--
		--	--	--	--	--	--
		--	--	--	--	--	--
Injection							
IN-18 + IN-19	<u>28320</u>	--	--	--	--	--	--
IN-16	<u>64800</u>	--	--	--	--	--	--
Trenches 2+3	<u>156710</u>	--	--	--	--	--	--
Trench 1 + IN 17	<u>154580</u>	--	--	--	--	--	--
IN 14 +15	<u>114250</u>	--	--	--	--	--	--
<u>IN IN 18</u>	<u>494670</u>						

Treatment System

Totalizer (digital): 536070 gal
DO-IT System Pressure: 42 psi (analog)
O2 Flow: 0 scfh

inj. PSI/scfh

14/6 42/0 30/3.8 284.2

1/17 34/2.4 22/5.8

2/3 26/4.4 20/6.0

16 40/0 30/3.0

19

GAC Lead Pressure: 18 psi

GAC Polish Pressure: 0 psi

Bag Filter 1 Pressure: 20 psi

Bag Filter 2 Pressure: 20 psi

Mixing Tank pH

Holding Tank pH

Weekly Maintenance Checklist

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

☐ Add Amendment to Holding Tank
cups soda ash pH buffer

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

Quarterly Maintenance Checklist

- ☐ Clean Mixing Tank
- ☒ Clean Flow Meters EX20 only
- ☐ Y Strainer

☒ Bag Filters
☐ Check GW Extraction Flow Rate
☒ Check Grundfos Extraction Pumps EX20 only

Former Bill Chun Facility, Alameda, CA

Date: 10 / 30 / 15

Time: 11 : 53

[illegible]

Totalizer (digital): 538360 gal
DO-IT System Pressure: 24 psi (analog)
O2 Flow: 4.4 scfh

Holding Tank pH

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

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

- ☐ Clean Mixing Tank
- ☐ Clean Flow Meters
- ☐ Y Strainer

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

- ☐ 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: ☒ ^{monthly} ~~bi-weekly~~ ☐ monthly ☐ quarterly ☐ unplanned

Date: 5 / Nov 2015

Field Tech: CRD

Time: 15:45

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	<u>487470</u>	--	--	
EX-22	<u>18320</u>	--	--	
EX-21	<u>249410</u>	--	--	
Injection				
IN-18	<u>495080</u>			
IN-19	<u>28700</u>	<u>38</u>	<u>2.0</u>	<u>1419</u>
IN-16	<u>66040</u>	<u>22</u>	<u>6.8</u>	<u>1616</u>
Trenches 2+3	<u>100920</u>	<u>22</u>	<u>7.0</u>	<u>1611</u>
Trench 1 + IN 17	<u>158260</u>	<u>25</u>	<u>5.6</u>	<u>1406</u>
IN 14 +15	<u>117710</u>	<u>24</u>	<u>6.2</u>	<u>1601</u>

Treatment System

Totalizer (digital): 538480 gal
 DO-IT System Pressure: _____ psi (analog)
 O2 Flow: _____ scfh

GAC Lead Pressure: 12 psi
 GAC Polish Pressure: 8 psi
 Bag Filter 1 Pressure: 48 psi
 Bag Filter 2 Pressure: 29 psi
 Mixing Tank pH: —
 Holding Tank pH: —

Weekly Maintenance Checklist

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

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

Quarterly Maintenance Checklist

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

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

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

Date: 11/19/15

Field Tech: Peter Sims

Time: 8:52

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	<u>499880</u>	--	--	
EX-22	<u>193220</u>	--	--	
EX-21	<u>261480</u>	--	--	
Injection				
IN-18	<u>495800</u>	<u>30</u>	<u>4.0</u>	
IN-19	<u>29180</u>	<u>40</u>	<u>0</u>	
IN-16	<u>68630</u>	<u>26</u>	<u>5.3</u>	
Trenches 2+3	<u>168500</u>	<u>24</u>	<u>5.8</u>	
Trench 1 + IN 17	<u>165070</u>	<u>28</u>	<u>5.1</u>	
IN 14 +15	<u>125050</u>	<u>26</u>	<u>5.4</u>	

Treatment System

Totalizer (digital): 576920 gal
DO-IT System Pressure: — psi (analog)
O2 Flow: — scfh

GAC Lead Pressure: 12 psi
GAC Polish Pressure: 0 psi
Bag Filter 1 Pressure: 50 psi
Bag Filter 2 Pressure: 32 psi
Mixing Tank pH: —
Holding Tank pH: —

Weekly Maintenance Checklist

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

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

Quarterly Maintenance Checklist

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

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

Date: 12 / 3 / 15

Time: 16 : 30

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	514040	--	--	
EX-22	203800	--	--	
EX-21	273380	--	--	
Injection				
IN-18	495870			
IN-19	300000	34	3	
IN-16	71540	24	6.2	
Trenches 2+3	174510	24	6.6	
Trench 1 + IN 17	172280	27	5.4	
IN 14 +15	132470	26	6.0	

Totalizer (digital): 60450 gal
DO-IT System Pressure: _____ psi (analog)
O2 Flow: _____ scfh

GAC Lead Pressure: 14 psi
GAC Polish Pressure: 0 psi
Bag Filter 1 Pressure: 42 psi
Bag Filter 2 Pressure: 30 psi
Mixing Tank pH -
Holding Tank pH -

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

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

- ☐ Clean Mixing Tank
- ☐ Clean Flow Meters
- ☐ Y Strainer

- ❑ Bag Filters
- ❑ Check GW Extraction Flow Rate
- ❑ Check Grundfos Extraction Pumps

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

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

Date: 12/17/15

Field Tech: Emily Divksen

Time: 14:20

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	<u>528270</u>	--	--	
EX-22	<u>222080</u>	--	--	
EX-21	<u>284380</u>	--	--	
Injection				
IN-16				
IN-19 + 18	<u>30850</u>	<u>36</u>	<u>2.4</u>	
IN-16	<u>73720</u>	<u>30</u>	<u>4.0</u>	
Trenches 2+3	<u>184030</u>	<u>31</u>	<u>4.2</u>	
Trench 1 + IN 17	<u>179450</u>	<u>30</u>	<u>4.6</u>	
IN 14 + 15	<u>138720</u>	<u>40</u>	<u>4.1</u>	

Treatment System

Totalizer (digital): 1030030 gal
 DO-IT System Pressure: _____ psi (analog)
 O2 Flow: _____ scfh

GAC Lead Pressure: 16 psi
 GAC Polish Pressure: 8 psi
 Bag Filter 1 Pressure: 38 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
- ☒ 50 lbs CBN nutrient mix
- ☒ 5 gal EZT-EA biosurfactant
- cups soda ash pH buffer

Quarterly Maintenance Checklist

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

Field Form for Treatment System Operations and Maintenance

Enhanced Biodegradation and Groundwater Recirculation Project

Former Bill Chun Facility, Alameda, CA

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

Date: 12 / 31 / 15

Field Tech: Peter Sims

Time: 10:08

Wells

Well ID	Meter Reading (gal)	Pressure (psi)	O2 Flow (scfh)	Comments
Extraction				
EX-20	<u>534710</u>	--	--	
EX-22	<u>26450</u>	--	--	
EX-21	<u>289940</u>	--	--	
Injection				
IN-18 / <u>19</u>	<u>31200</u>	<u>42</u>	<u>0</u>	
IN-19	<u>---</u>	<u>---</u>	<u>---</u>	
IN-16	<u>74160</u>	<u>32</u>	<u>3.2</u>	
Trenches 2+3	<u>187800</u>	<u>26/22</u>	<u>5.0/6.2</u>	<u>opened gate valve to increase flow rate</u>
Trench 1 + IN 17	<u>183520</u>	<u>26</u>	<u>4.8</u>	
IN 14 +15	<u>14636</u>	<u>40</u>	<u>0.2</u>	<u>opened gate valve to increase flow rate</u>
		<u>26</u>	<u>5.2</u>	

Treatment System

Totalizer (digital): 641970 gal
DO-IT System Pressure: --- psi (analog)
O2 Flow: --- scfh

GAC Lead Pressure: 17 psi
GAC Polish Pressure: 0 psi
Bag Filter 1 Pressure: 38 psi
Bag Filter 2 Pressure: 30 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
10 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: 720-68596-1

Client Project/Site: Chun

For:

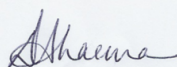
Ninyo & Moore

1956 Webster Street

Suite 400

Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:

11/24/2015 3:59:36 PM

Dimple Sharma, Senior Project Manager

(925)484-1919

dimple.sharma@testamericainc.com

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www.testamericainc.com

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

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

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Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Qualifiers

GC/MS VOA

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

General Chemistry

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

Glossary

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

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Job ID: 720-68596-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-68596-1

Comments

No additional comments.

Receipt

The samples were received on 11/10/2015 5:01 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

Receipt Exceptions

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC):

MW-6R The container labels list sample time: 12::32, while the COC lists sample time: 12:35.

MW-8 The container labels list sample time: 15::28, while the COC lists sample time: 14:28.

MW-9 The container labels list sample time: 14::28, while the COC lists sample time: 14:55.

MW-10 The container labels list sample time: 14:55, while the COC lists sample time: 15:28.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 720-193036 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Metals

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

General Chemistry

Method 300.0: 11 samples were analyzed between the MB and CCV instead of the method specified 10 samples. The CCV passed, therefore the data is reportable. The following sample is affected:

MW-6R (720-68596-3)

Method 300.0: The following samples were analyzed with a CCV/CCB pair after 11 samples instead the method specified 10 samples. The CCV recoveries passed and therefore the data is reportable.

MW-6R (720-68596-3)

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: 720-68596-1

Client Sample ID: MW-4R

Lab Sample ID: 720-68596-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzene	1600		5.0		ug/L	10			8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	20		10		ug/L	10			8260B/CA_LUFT MS	Total/NA
sec-Butylbenzene	13		10		ug/L	10			8260B/CA_LUFT MS	Total/NA
Ethylbenzene	430		5.0		ug/L	10			8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	73		5.0		ug/L	10			8260B/CA_LUFT MS	Total/NA
Naphthalene	270		10		ug/L	10			8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	69		10		ug/L	10			8260B/CA_LUFT MS	Total/NA
Toluene	1900		10		ug/L	20			8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	360		5.0		ug/L	10			8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	77		5.0		ug/L	10			8260B/CA_LUFT MS	Total/NA
Xylenes, Total	1300		10		ug/L	10			8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO)	7900		500		ug/L	10			8260B/CA_LUFT MS	Total/NA
-C5-C12 Sulfate	10		1.0		mg/L	1			300.0	Total/NA
Nitrate as NO3	6.1		1.0		mg/L	1			300.0	Total/NA
Iron	50		0.50		mg/L	1			200.7 Rev 4.4	Total/NA
Manganese	2.0		0.020		mg/L	1			200.7 Rev 4.4	Total/NA
Potassium	4.0		1.0		mg/L	1			200.7 Rev 4.4	Total/NA
Ferric Iron	23		0.10		mg/L	1			SM 3500	Total/NA
Ferrous Iron	27	HF	5.0		mg/L	50			SM 3500 Fe B	Total/NA
Ammonia	9.5		0.80		mg/L	4			SM 4500 NH3 G	Total/NA
Orthophosphate as P	0.065		0.020		mg/L	1			SM 4500 P E	Total/NA

Client Sample ID: MW-5R

Lab Sample ID: 720-68596-2

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	3800		50		ug/L	100			8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	110		50		ug/L	100			8260B/CA_LUFT MS	Total/NA
Naphthalene	700		100		ug/L	100			8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	270		100		ug/L	100			8260B/CA_LUFT MS	Total/NA
Toluene	7700		50		ug/L	100			8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	2200		50		ug/L	100			8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	470		50		ug/L	100			8260B/CA_LUFT MS	Total/NA
Xylenes, Total	24000		100		ug/L	100			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: 720-68596-1

Client Sample ID: MW-5R (Continued)

Lab Sample ID: 720-68596-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)	48000		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA
-C5-C12									
Nitrite as NO2	1.3		1.0		mg/L	1		300.0	Total/NA
Sulfate	23		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	4.8		1.0		mg/L	1		300.0	Total/NA
Iron	3.4		0.50		mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.80		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	2.8		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.64	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Ammonia	0.33		0.20		mg/L	1		SM 4500 NH3 G	Total/NA
Orthophosphate as P	0.22		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-6R

Lab Sample ID: 720-68596-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	23		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	6.2		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
sec-Butylbenzene	6.1		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	61		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	19		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Naphthalene	100		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	9.1		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Toluene	140		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	96		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	5.6		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	520		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO)	1400		250		ug/L	5		8260B/CA_LUFT MS	Total/NA
-C5-C12									
Nitrite as NO2	2.8		1.0		mg/L	1		300.0	Total/NA
Sulfate	39		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	270		100		mg/L	100		300.0	Total/NA
Manganese	1.4		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Ammonia	0.43		0.20		mg/L	1		SM 4500 NH3 G	Total/NA
Orthophosphate as P	0.88		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-7R

Lab Sample ID: 720-68596-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	650		250		ug/L	500		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	2500		250		ug/L	500		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: 720-68596-1

Client Sample ID: MW-7R (Continued)

Lab Sample ID: 720-68596-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Naphthalene	710		500		ug/L	500			8260B/CA_LUFT MS	Total/NA
Toluene	11000		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	530		250		ug/L	500			8260B/CA_LUFT MS	Total/NA
Xylenes, Total	21000		500		ug/L	500			8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO)	55000		25000		ug/L	500			8260B/CA_LUFT MS	Total/NA
-C5-C12										
Nitrite as NO2	3.8		1.0		mg/L	1			300.0	Total/NA
Sulfate	24		10		mg/L	10			300.0	Total/NA
Nitrate as NO3	190		10		mg/L	10			300.0	Total/NA
Iron	24		0.50		mg/L	1			200.7 Rev 4.4	Total/NA
Manganese	1.8		0.020		mg/L	1			200.7 Rev 4.4	Total/NA
Potassium	2.1		1.0		mg/L	1			200.7 Rev 4.4	Total/NA
Ferric Iron	24		0.10		mg/L	1			SM 3500	Total/NA
Ferrous Iron	0.35	HF	0.10		mg/L	1			SM 3500 Fe B	Total/NA
Ammonia	1.5		0.20		mg/L	1			SM 4500 NH3 G	Total/NA
Orthophosphate as P	0.025		0.020		mg/L	1			SM 4500 P E	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 720-68596-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzene	20		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	1.9		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
sec-Butylbenzene	3.4		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
Ethylbenzene	2.5		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	20		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Naphthalene	44		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	20		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
Toluene	8.1		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	0.78		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Vinyl acetate	13		10		ug/L	1			8260B/CA_LUFT MS	Total/NA
Xylenes, Total	14		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO)	1600		50		ug/L	1			8260B/CA_LUFT MS	Total/NA
-C5-C12										
Sulfate	2.7		1.0		mg/L	1			300.0	Total/NA
Iron	81		0.50		mg/L	1			200.7 Rev 4.4	Total/NA
Manganese	1.8		0.020		mg/L	1			200.7 Rev 4.4	Total/NA
Potassium	6.5		1.0		mg/L	1			200.7 Rev 4.4	Total/NA
Ferric Iron	63		0.10		mg/L	1			SM 3500	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-8 (Continued)

Lab Sample ID: 720-68596-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ferrous Iron	18	HF	1.0		mg/L	10		SM 3500 Fe B	Total/NA
Ammonia	0.30		0.20		mg/L	1		SM 4500 NH3 G	Total/NA
Orthophosphate as P	0.044		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 720-68596-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
sec-Butylbenzene	1.3		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	0.82		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Sulfate	87		10		mg/L	10		300.0	Total/NA
Iron	23		0.50		mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	4.0		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	1.8		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	22		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.93	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Orthophosphate as P	0.064		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 720-68596-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
sec-Butylbenzene	1.5		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Sulfate	32		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	25		10		mg/L	10		300.0	Total/NA
Iron	43		0.50		mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.67		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	4.5		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	43		0.10		mg/L	1		SM 3500	Total/NA
Orthophosphate as P	0.024		0.020		mg/L	1		SM 4500 P E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-4R

Date Collected: 11/10/15 10:05

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-1

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		5.0		ug/L			11/20/15 03:04	10
Acetone	ND		500		ug/L			11/20/15 03:04	10
Benzene	1600		5.0		ug/L			11/20/15 03:04	10
Dichlorobromomethane	ND		5.0		ug/L			11/20/15 03:04	10
Bromobenzene	ND		10		ug/L			11/20/15 03:04	10
Chlorobromomethane	ND		10		ug/L			11/20/15 03:04	10
Bromoform	ND		10		ug/L			11/20/15 03:04	10
Bromomethane	ND		10		ug/L			11/20/15 03:04	10
2-Butanone (MEK)	ND		500		ug/L			11/20/15 03:04	10
n-Butylbenzene	20		10		ug/L			11/20/15 03:04	10
sec-Butylbenzene	13		10		ug/L			11/20/15 03:04	10
tert-Butylbenzene	ND		10		ug/L			11/20/15 03:04	10
Carbon disulfide	ND		50		ug/L			11/20/15 03:04	10
Carbon tetrachloride	ND		5.0		ug/L			11/20/15 03:04	10
Chlorobenzene	ND		5.0		ug/L			11/20/15 03:04	10
Chloroethane	ND		10		ug/L			11/20/15 03:04	10
Chloroform	ND		10		ug/L			11/20/15 03:04	10
Chloromethane	ND		10		ug/L			11/20/15 03:04	10
2-Chlorotoluene	ND		5.0		ug/L			11/20/15 03:04	10
4-Chlorotoluene	ND		5.0		ug/L			11/20/15 03:04	10
Chlorodibromomethane	ND		5.0		ug/L			11/20/15 03:04	10
1,2-Dichlorobenzene	ND		5.0		ug/L			11/20/15 03:04	10
1,3-Dichlorobenzene	ND		5.0		ug/L			11/20/15 03:04	10
1,4-Dichlorobenzene	ND		5.0		ug/L			11/20/15 03:04	10
1,3-Dichloropropane	ND		10		ug/L			11/20/15 03:04	10
1,1-Dichloropropane	ND		5.0		ug/L			11/20/15 03:04	10
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			11/20/15 03:04	10
Ethylene Dibromide	ND		5.0		ug/L			11/20/15 03:04	10
Dibromomethane	ND		5.0		ug/L			11/20/15 03:04	10
Dichlorodifluoromethane	ND		5.0		ug/L			11/20/15 03:04	10
1,1-Dichloroethane	ND		5.0		ug/L			11/20/15 03:04	10
1,2-Dichloroethane	ND		5.0		ug/L			11/20/15 03:04	10
1,1-Dichloroethene	ND		5.0		ug/L			11/20/15 03:04	10
cis-1,2-Dichloroethene	ND		5.0		ug/L			11/20/15 03:04	10
trans-1,2-Dichloroethene	ND		5.0		ug/L			11/20/15 03:04	10
1,2-Dichloropropane	ND		5.0		ug/L			11/20/15 03:04	10
cis-1,3-Dichloropropene	ND		5.0		ug/L			11/20/15 03:04	10
trans-1,3-Dichloropropene	ND		5.0		ug/L			11/20/15 03:04	10
Ethylbenzene	430		5.0		ug/L			11/20/15 03:04	10
Hexachlorobutadiene	ND		10		ug/L			11/20/15 03:04	10
2-Hexanone	ND		500		ug/L			11/20/15 03:04	10
Isopropylbenzene	73		5.0		ug/L			11/20/15 03:04	10
4-Isopropyltoluene	ND		10		ug/L			11/20/15 03:04	10
Methylene Chloride	ND		50		ug/L			11/20/15 03:04	10
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			11/20/15 03:04	10
Naphthalene	270		10		ug/L			11/20/15 03:04	10
N-Propylbenzene	69		10		ug/L			11/20/15 03:04	10
Styrene	ND		5.0		ug/L			11/20/15 03:04	10
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			11/20/15 03:04	10

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-4R

Date Collected: 11/10/15 10:05

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-1

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		5.0		ug/L			11/20/15 03:04	10
Tetrachloroethene	ND		5.0		ug/L			11/20/15 03:04	10
Toluene	1900		10		ug/L			11/23/15 14:27	20
1,2,3-Trichlorobenzene	ND		10		ug/L			11/20/15 03:04	10
1,2,4-Trichlorobenzene	ND		10		ug/L			11/20/15 03:04	10
1,1,1-Trichloroethane	ND		5.0		ug/L			11/20/15 03:04	10
1,1,2-Trichloroethane	ND		5.0		ug/L			11/20/15 03:04	10
Trichloroethene	ND		5.0		ug/L			11/20/15 03:04	10
Trichlorofluoromethane	ND		10		ug/L			11/20/15 03:04	10
1,2,3-Trichloropropane	ND		5.0		ug/L			11/20/15 03:04	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			11/20/15 03:04	10
1,2,4-Trimethylbenzene	360		5.0		ug/L			11/20/15 03:04	10
1,3,5-Trimethylbenzene	77		5.0		ug/L			11/20/15 03:04	10
Vinyl acetate	ND		100		ug/L			11/20/15 03:04	10
Vinyl chloride	ND		5.0		ug/L			11/20/15 03:04	10
Xylenes, Total	1300		10		ug/L			11/20/15 03:04	10
2,2-Dichloropropane	ND		5.0		ug/L			11/20/15 03:04	10
Gasoline Range Organics (GRO)	7900		500		ug/L			11/20/15 03:45	10
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		67 - 130		11/20/15 03:04	10
4-Bromofluorobenzene	96		67 - 130		11/20/15 03:45	10
4-Bromofluorobenzene	95		67 - 130		11/23/15 14:27	20
1,2-Dichloroethane-d4 (Surr)	96		72 - 130		11/20/15 03:04	10
1,2-Dichloroethane-d4 (Surr)	93		72 - 130		11/20/15 03:45	10
1,2-Dichloroethane-d4 (Surr)	82		72 - 130		11/23/15 14:27	20
Toluene-d8 (Surr)	97		70 - 130		11/20/15 03:04	10
Toluene-d8 (Surr)	99		70 - 130		11/20/15 03:45	10
Toluene-d8 (Surr)	85		70 - 130		11/23/15 14:27	20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	ND		1.0		mg/L			11/11/15 02:41	1
Sulfate	10		1.0		mg/L			11/11/15 02:41	1
Nitrate as NO3	6.1		1.0		mg/L			11/11/15 02:41	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	50		0.50		mg/L		11/12/15 16:38	11/16/15 17:30	1
Manganese	2.0		0.020		mg/L		11/12/15 16:38	11/13/15 23:22	1
Potassium	4.0		1.0		mg/L		11/12/15 16:38	11/13/15 23:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	23		0.10		mg/L			11/17/15 15:21	1
Ferrous Iron	27	HF	5.0		mg/L			11/11/15 21:06	50
Ammonia	9.5		0.80		mg/L		11/13/15 23:00	11/15/15 18:03	4
Orthophosphate as P	0.065		0.020		mg/L			11/11/15 15:57	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-5R

Date Collected: 11/10/15 11:50

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-2

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			11/20/15 03:32	100
Acetone	ND		5000		ug/L			11/20/15 03:32	100
Benzene	1800		50		ug/L			11/20/15 03:32	100
Dichlorobromomethane	ND		50		ug/L			11/20/15 03:32	100
Bromobenzene	ND		100		ug/L			11/20/15 03:32	100
Chlorobromomethane	ND		100		ug/L			11/20/15 03:32	100
Bromoform	ND		100		ug/L			11/20/15 03:32	100
Bromomethane	ND		100		ug/L			11/20/15 03:32	100
2-Butanone (MEK)	ND		5000		ug/L			11/20/15 03:32	100
n-Butylbenzene	ND		100		ug/L			11/20/15 03:32	100
sec-Butylbenzene	ND		100		ug/L			11/20/15 03:32	100
tert-Butylbenzene	ND		100		ug/L			11/20/15 03:32	100
Carbon disulfide	ND		500		ug/L			11/20/15 03:32	100
Carbon tetrachloride	ND		50		ug/L			11/20/15 03:32	100
Chlorobenzene	ND		50		ug/L			11/20/15 03:32	100
Chloroethane	ND		100		ug/L			11/20/15 03:32	100
Chloroform	ND		100		ug/L			11/20/15 03:32	100
Chloromethane	ND		100		ug/L			11/20/15 03:32	100
2-Chlorotoluene	ND		50		ug/L			11/20/15 03:32	100
4-Chlorotoluene	ND		50		ug/L			11/20/15 03:32	100
Chlorodibromomethane	ND		50		ug/L			11/20/15 03:32	100
1,2-Dichlorobenzene	ND		50		ug/L			11/20/15 03:32	100
1,3-Dichlorobenzene	ND		50		ug/L			11/20/15 03:32	100
1,4-Dichlorobenzene	ND		50		ug/L			11/20/15 03:32	100
1,3-Dichloropropane	ND		100		ug/L			11/20/15 03:32	100
1,1-Dichloropropane	ND		50		ug/L			11/20/15 03:32	100
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			11/20/15 03:32	100
Ethylene Dibromide	ND		50		ug/L			11/20/15 03:32	100
Dibromomethane	ND		50		ug/L			11/20/15 03:32	100
Dichlorodifluoromethane	ND		50		ug/L			11/20/15 03:32	100
1,1-Dichloroethane	ND		50		ug/L			11/20/15 03:32	100
1,2-Dichloroethane	ND		50		ug/L			11/20/15 03:32	100
1,1-Dichloroethene	ND		50		ug/L			11/20/15 03:32	100
cis-1,2-Dichloroethene	ND		50		ug/L			11/20/15 03:32	100
trans-1,2-Dichloroethene	ND		50		ug/L			11/20/15 03:32	100
1,2-Dichloropropane	ND		50		ug/L			11/20/15 03:32	100
cis-1,3-Dichloropropene	ND		50		ug/L			11/20/15 03:32	100
trans-1,3-Dichloropropene	ND		50		ug/L			11/20/15 03:32	100
Ethylbenzene	3800		50		ug/L			11/20/15 03:32	100
Hexachlorobutadiene	ND		100		ug/L			11/20/15 03:32	100
2-Hexanone	ND		5000		ug/L			11/20/15 03:32	100
Isopropylbenzene	110		50		ug/L			11/20/15 03:32	100
4-Isopropyltoluene	ND		100		ug/L			11/20/15 03:32	100
Methylene Chloride	ND		500		ug/L			11/20/15 03:32	100
4-Methyl-2-pentanone (MIBK)	ND		5000		ug/L			11/20/15 03:32	100
Naphthalene	700		100		ug/L			11/20/15 03:32	100
N-Propylbenzene	270		100		ug/L			11/20/15 03:32	100
Styrene	ND		50		ug/L			11/20/15 03:32	100
1,1,1,2-Tetrachloroethane	ND		50		ug/L			11/20/15 03:32	100

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-5R

Date Collected: 11/10/15 11:50

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-2

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			11/20/15 03:32	100
Tetrachloroethene	ND		50		ug/L			11/20/15 03:32	100
Toluene	7700		50		ug/L			11/20/15 04:14	100
1,2,3-Trichlorobenzene	ND		100		ug/L			11/20/15 03:32	100
1,2,4-Trichlorobenzene	ND		100		ug/L			11/20/15 03:32	100
1,1,1-Trichloroethane	ND		50		ug/L			11/20/15 03:32	100
1,1,2-Trichloroethane	ND		50		ug/L			11/20/15 03:32	100
Trichloroethene	ND		50		ug/L			11/20/15 03:32	100
Trichlorofluoromethane	ND		100		ug/L			11/20/15 03:32	100
1,2,3-Trichloropropane	ND		50		ug/L			11/20/15 03:32	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50		ug/L			11/20/15 03:32	100
1,2,4-Trimethylbenzene	2200		50		ug/L			11/20/15 03:32	100
1,3,5-Trimethylbenzene	470		50		ug/L			11/20/15 03:32	100
Vinyl acetate	ND		1000		ug/L			11/20/15 03:32	100
Vinyl chloride	ND		50		ug/L			11/20/15 03:32	100
Xylenes, Total	24000		100		ug/L			11/20/15 03:32	100
2,2-Dichloropropane	ND		50		ug/L			11/20/15 03:32	100
Gasoline Range Organics (GRO)	48000		5000		ug/L			11/20/15 04:14	100
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130					11/20/15 03:32	100
4-Bromofluorobenzene	96		67 - 130					11/20/15 04:14	100
1,2-Dichloroethane-d4 (Surr)	99		72 - 130					11/20/15 03:32	100
1,2-Dichloroethane-d4 (Surr)	97		72 - 130					11/20/15 04:14	100
Toluene-d8 (Surr)	97		70 - 130					11/20/15 03:32	100
Toluene-d8 (Surr)	98		70 - 130					11/20/15 04:14	100

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	1.3		1.0		mg/L			11/11/15 03:15	1
Sulfate	23		10		mg/L			11/11/15 03:32	10
Nitrate as NO3	4.8		1.0		mg/L			11/11/15 03:15	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.4		0.50		mg/L		11/12/15 16:38	11/16/15 17:45	1
Manganese	0.80		0.020		mg/L		11/12/15 16:38	11/13/15 23:27	1
Potassium	ND		1.0		mg/L		11/12/15 16:38	11/13/15 23:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	2.8		0.10		mg/L			11/17/15 15:21	1
Ferrous Iron	0.64	HF	0.10		mg/L			11/11/15 21:06	1
Ammonia	0.33		0.20		mg/L		11/13/15 23:00	11/15/15 18:06	1
Orthophosphate as P	0.22		0.020		mg/L			11/11/15 15:57	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-6R

Date Collected: 11/10/15 12:35

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-3

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			11/20/15 04:02	5
Acetone	ND		250		ug/L			11/20/15 04:02	5
Benzene	23		2.5		ug/L			11/20/15 04:02	5
Dichlorobromomethane	ND		2.5		ug/L			11/20/15 04:02	5
Bromobenzene	ND		5.0		ug/L			11/20/15 04:02	5
Chlorobromomethane	ND		5.0		ug/L			11/20/15 04:02	5
Bromoform	ND		5.0		ug/L			11/20/15 04:02	5
Bromomethane	ND		5.0		ug/L			11/20/15 04:02	5
2-Butanone (MEK)	ND		250		ug/L			11/20/15 04:02	5
n-Butylbenzene	6.2		5.0		ug/L			11/20/15 04:02	5
sec-Butylbenzene	6.1		5.0		ug/L			11/20/15 04:02	5
tert-Butylbenzene	ND		5.0		ug/L			11/20/15 04:02	5
Carbon disulfide	ND		25		ug/L			11/20/15 04:02	5
Carbon tetrachloride	ND		2.5		ug/L			11/20/15 04:02	5
Chlorobenzene	ND		2.5		ug/L			11/20/15 04:02	5
Chloroethane	ND		5.0		ug/L			11/20/15 04:02	5
Chloroform	ND		5.0		ug/L			11/20/15 04:02	5
Chloromethane	ND		5.0		ug/L			11/20/15 04:02	5
2-Chlorotoluene	ND		2.5		ug/L			11/20/15 04:02	5
4-Chlorotoluene	ND		2.5		ug/L			11/20/15 04:02	5
Chlorodibromomethane	ND		2.5		ug/L			11/20/15 04:02	5
1,2-Dichlorobenzene	ND		2.5		ug/L			11/20/15 04:02	5
1,3-Dichlorobenzene	ND		2.5		ug/L			11/20/15 04:02	5
1,4-Dichlorobenzene	ND		2.5		ug/L			11/20/15 04:02	5
1,3-Dichloropropane	ND		5.0		ug/L			11/20/15 04:02	5
1,1-Dichloropropane	ND		2.5		ug/L			11/20/15 04:02	5
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/20/15 04:02	5
Ethylene Dibromide	ND		2.5		ug/L			11/20/15 04:02	5
Dibromomethane	ND		2.5		ug/L			11/20/15 04:02	5
Dichlorodifluoromethane	ND		2.5		ug/L			11/20/15 04:02	5
1,1-Dichloroethane	ND		2.5		ug/L			11/20/15 04:02	5
1,2-Dichloroethane	ND		2.5		ug/L			11/20/15 04:02	5
1,1-Dichloroethene	ND		2.5		ug/L			11/20/15 04:02	5
cis-1,2-Dichloroethene	ND		2.5		ug/L			11/20/15 04:02	5
trans-1,2-Dichloroethene	ND		2.5		ug/L			11/20/15 04:02	5
1,2-Dichloropropane	ND		2.5		ug/L			11/20/15 04:02	5
cis-1,3-Dichloropropene	ND		2.5		ug/L			11/20/15 04:02	5
trans-1,3-Dichloropropene	ND		2.5		ug/L			11/20/15 04:02	5
Ethylbenzene	61		2.5		ug/L			11/20/15 04:02	5
Hexachlorobutadiene	ND		5.0		ug/L			11/20/15 04:02	5
2-Hexanone	ND		250		ug/L			11/20/15 04:02	5
Isopropylbenzene	19		2.5		ug/L			11/20/15 04:02	5
4-Isopropyltoluene	ND		5.0		ug/L			11/20/15 04:02	5
Methylene Chloride	ND		25		ug/L			11/20/15 04:02	5
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			11/20/15 04:02	5
Naphthalene	100		5.0		ug/L			11/20/15 04:02	5
N-Propylbenzene	9.1		5.0		ug/L			11/20/15 04:02	5
Styrene	ND		2.5		ug/L			11/20/15 04:02	5
1,1,1,2-Tetrachloroethane	ND		2.5		ug/L			11/20/15 04:02	5

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-6R

Date Collected: 11/10/15 12:35

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-3

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			11/20/15 04:02	5
Tetrachloroethene	ND		2.5		ug/L			11/20/15 04:02	5
Toluene	140		2.5		ug/L			11/20/15 04:42	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			11/20/15 04:02	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			11/20/15 04:02	5
1,1,1-Trichloroethane	ND		2.5		ug/L			11/20/15 04:02	5
1,1,2-Trichloroethane	ND		2.5		ug/L			11/20/15 04:02	5
Trichloroethene	ND		2.5		ug/L			11/20/15 04:02	5
Trichlorofluoromethane	ND		5.0		ug/L			11/20/15 04:02	5
1,2,3-Trichloropropane	ND		2.5		ug/L			11/20/15 04:02	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5		ug/L			11/20/15 04:02	5
1,2,4-Trimethylbenzene	96		2.5		ug/L			11/20/15 04:02	5
1,3,5-Trimethylbenzene	5.6		2.5		ug/L			11/20/15 04:02	5
Vinyl acetate	ND		50		ug/L			11/20/15 04:02	5
Vinyl chloride	ND		2.5		ug/L			11/20/15 04:02	5
Xylenes, Total	520		5.0		ug/L			11/20/15 04:02	5
2,2-Dichloropropane	ND		2.5		ug/L			11/20/15 04:02	5
Gasoline Range Organics (GRO)	1400		250		ug/L			11/20/15 04:42	5
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130					11/20/15 04:02	5
4-Bromofluorobenzene	96		67 - 130					11/20/15 04:42	5
1,2-Dichloroethane-d4 (Surr)	99		72 - 130					11/20/15 04:02	5
1,2-Dichloroethane-d4 (Surr)	95		72 - 130					11/20/15 04:42	5
Toluene-d8 (Surr)	98		70 - 130					11/20/15 04:02	5
Toluene-d8 (Surr)	97		70 - 130					11/20/15 04:42	5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	2.8		1.0		mg/L			11/11/15 04:24	1
Sulfate	39		10		mg/L			11/11/15 04:41	10
Nitrate as NO3	270		100		mg/L			11/11/15 11:39	100

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.50		mg/L		11/12/15 16:38	11/16/15 17:50	1
Manganese	1.4		0.020		mg/L		11/12/15 16:38	11/13/15 23:32	1
Potassium	ND		1.0		mg/L		11/12/15 16:38	11/13/15 23:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			11/17/15 15:21	1
Ferrous Iron	ND	HF	0.10		mg/L			11/11/15 21:06	1
Ammonia	0.43		0.20		mg/L		11/13/15 23:00	11/15/15 18:09	1
Orthophosphate as P	0.88		0.020		mg/L			11/11/15 15:57	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-7R

Date Collected: 11/10/15 13:05

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-4

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			11/20/15 04:31	500
Acetone	ND		25000		ug/L			11/20/15 04:31	500
Benzene	650		250		ug/L			11/20/15 04:31	500
Dichlorobromomethane	ND		250		ug/L			11/20/15 04:31	500
Bromobenzene	ND		500		ug/L			11/20/15 04:31	500
Chlorobromomethane	ND		500		ug/L			11/20/15 04:31	500
Bromoform	ND		500		ug/L			11/20/15 04:31	500
Bromomethane	ND		500		ug/L			11/20/15 04:31	500
2-Butanone (MEK)	ND		25000		ug/L			11/20/15 04:31	500
n-Butylbenzene	ND		500		ug/L			11/20/15 04:31	500
sec-Butylbenzene	ND		500		ug/L			11/20/15 04:31	500
tert-Butylbenzene	ND		500		ug/L			11/20/15 04:31	500
Carbon disulfide	ND		2500		ug/L			11/20/15 04:31	500
Carbon tetrachloride	ND		250		ug/L			11/20/15 04:31	500
Chlorobenzene	ND		250		ug/L			11/20/15 04:31	500
Chloroethane	ND		500		ug/L			11/20/15 04:31	500
Chloroform	ND		500		ug/L			11/20/15 04:31	500
Chloromethane	ND		500		ug/L			11/20/15 04:31	500
2-Chlorotoluene	ND		250		ug/L			11/20/15 04:31	500
4-Chlorotoluene	ND		250		ug/L			11/20/15 04:31	500
Chlorodibromomethane	ND		250		ug/L			11/20/15 04:31	500
1,2-Dichlorobenzene	ND		250		ug/L			11/20/15 04:31	500
1,3-Dichlorobenzene	ND		250		ug/L			11/20/15 04:31	500
1,4-Dichlorobenzene	ND		250		ug/L			11/20/15 04:31	500
1,3-Dichloropropane	ND		500		ug/L			11/20/15 04:31	500
1,1-Dichloropropane	ND		250		ug/L			11/20/15 04:31	500
1,2-Dibromo-3-Chloropropane	ND		500		ug/L			11/20/15 04:31	500
Ethylene Dibromide	ND		250		ug/L			11/20/15 04:31	500
Dibromomethane	ND		250		ug/L			11/20/15 04:31	500
Dichlorodifluoromethane	ND		250		ug/L			11/20/15 04:31	500
1,1-Dichloroethane	ND		250		ug/L			11/20/15 04:31	500
1,2-Dichloroethane	ND		250		ug/L			11/20/15 04:31	500
1,1-Dichloroethene	ND		250		ug/L			11/20/15 04:31	500
cis-1,2-Dichloroethene	ND		250		ug/L			11/20/15 04:31	500
trans-1,2-Dichloroethene	ND		250		ug/L			11/20/15 04:31	500
1,2-Dichloropropane	ND		250		ug/L			11/20/15 04:31	500
cis-1,3-Dichloropropene	ND		250		ug/L			11/20/15 04:31	500
trans-1,3-Dichloropropene	ND		250		ug/L			11/20/15 04:31	500
Ethylbenzene	2500		250		ug/L			11/20/15 04:31	500
Hexachlorobutadiene	ND		500		ug/L			11/20/15 04:31	500
2-Hexanone	ND		25000		ug/L			11/20/15 04:31	500
Isopropylbenzene	ND		250		ug/L			11/20/15 04:31	500
4-Isopropyltoluene	ND		500		ug/L			11/20/15 04:31	500
Methylene Chloride	ND		2500		ug/L			11/20/15 04:31	500
4-Methyl-2-pentanone (MIBK)	ND		25000		ug/L			11/20/15 04:31	500
Naphthalene	710		500		ug/L			11/20/15 04:31	500
N-Propylbenzene	ND		500		ug/L			11/20/15 04:31	500
Styrene	ND		250		ug/L			11/20/15 04:31	500
1,1,1,2-Tetrachloroethane	ND		250		ug/L			11/20/15 04:31	500

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-7R

Date Collected: 11/10/15 13:05

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-4

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			11/20/15 04:31	500
Tetrachloroethene	ND		250		ug/L			11/20/15 04:31	500
Toluene	11000		250		ug/L			11/20/15 05:10	500
1,2,3-Trichlorobenzene	ND		500		ug/L			11/20/15 04:31	500
1,2,4-Trichlorobenzene	ND		500		ug/L			11/20/15 04:31	500
1,1,1-Trichloroethane	ND		250		ug/L			11/20/15 04:31	500
1,1,2-Trichloroethane	ND		250		ug/L			11/20/15 04:31	500
Trichloroethene	ND		250		ug/L			11/20/15 04:31	500
Trichlorofluoromethane	ND		500		ug/L			11/20/15 04:31	500
1,2,3-Trichloropropane	ND		250		ug/L			11/20/15 04:31	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250		ug/L			11/20/15 04:31	500
1,2,4-Trimethylbenzene	2100		250		ug/L			11/20/15 04:31	500
1,3,5-Trimethylbenzene	530		250		ug/L			11/20/15 04:31	500
Vinyl acetate	ND		5000		ug/L			11/20/15 04:31	500
Vinyl chloride	ND		250		ug/L			11/20/15 04:31	500
Xylenes, Total	21000		500		ug/L			11/20/15 04:31	500
2,2-Dichloropropane	ND		250		ug/L			11/20/15 04:31	500
Gasoline Range Organics (GRO)	55000		25000		ug/L			11/20/15 05:10	500
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		67 - 130					11/20/15 04:31	500
4-Bromofluorobenzene	95		67 - 130					11/20/15 05:10	500
1,2-Dichloroethane-d4 (Surr)	100		72 - 130					11/20/15 04:31	500
1,2-Dichloroethane-d4 (Surr)	96		72 - 130					11/20/15 05:10	500
Toluene-d8 (Surr)	96		70 - 130					11/20/15 04:31	500
Toluene-d8 (Surr)	97		70 - 130					11/20/15 05:10	500

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	3.8		1.0		mg/L			11/11/15 04:58	1
Sulfate	24		10		mg/L			11/11/15 05:15	10
Nitrate as NO3	190		10		mg/L			11/11/15 05:15	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	24		0.50		mg/L		11/12/15 16:38	11/16/15 17:55	1
Manganese	1.8		0.020		mg/L		11/12/15 16:38	11/13/15 23:37	1
Potassium	2.1		1.0		mg/L		11/12/15 16:38	11/16/15 17:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	24		0.10		mg/L			11/17/15 15:21	1
Ferrous Iron	0.35	HF	0.10		mg/L			11/11/15 21:06	1
Ammonia	1.5		0.20		mg/L		11/13/15 23:00	11/15/15 18:17	1
Orthophosphate as P	0.025		0.020		mg/L			11/11/15 15:57	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-8
Date Collected: 11/10/15 14:28
Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-5
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			11/20/15 05:00	1
Acetone	ND		50		ug/L			11/20/15 05:00	1
Benzene	20		0.50		ug/L			11/20/15 05:00	1
Dichlorobromomethane	ND		0.50		ug/L			11/20/15 05:00	1
Bromobenzene	ND		1.0		ug/L			11/20/15 05:00	1
Chlorobromomethane	ND		1.0		ug/L			11/20/15 05:00	1
Bromoform	ND		1.0		ug/L			11/20/15 05:00	1
Bromomethane	ND		1.0		ug/L			11/20/15 05:00	1
2-Butanone (MEK)	ND		50		ug/L			11/20/15 05:00	1
n-Butylbenzene	1.9		1.0		ug/L			11/20/15 05:00	1
sec-Butylbenzene	3.4		1.0		ug/L			11/20/15 05:00	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/15 05:00	1
Carbon disulfide	ND		5.0		ug/L			11/20/15 05:00	1
Carbon tetrachloride	ND		0.50		ug/L			11/20/15 05:00	1
Chlorobenzene	ND		0.50		ug/L			11/20/15 05:00	1
Chloroethane	ND		1.0		ug/L			11/20/15 05:00	1
Chloroform	ND		1.0		ug/L			11/20/15 05:00	1
Chloromethane	ND		1.0		ug/L			11/20/15 05:00	1
2-Chlorotoluene	ND		0.50		ug/L			11/20/15 05:00	1
4-Chlorotoluene	ND		0.50		ug/L			11/20/15 05:00	1
Chlorodibromomethane	ND		0.50		ug/L			11/20/15 05:00	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/20/15 05:00	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/20/15 05:00	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/20/15 05:00	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/15 05:00	1
1,1-Dichloropropane	ND		0.50		ug/L			11/20/15 05:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/20/15 05:00	1
Ethylene Dibromide	ND		0.50		ug/L			11/20/15 05:00	1
Dibromomethane	ND		0.50		ug/L			11/20/15 05:00	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/20/15 05:00	1
1,1-Dichloroethane	ND		0.50		ug/L			11/20/15 05:00	1
1,2-Dichloroethane	ND		0.50		ug/L			11/20/15 05:00	1
1,1-Dichloroethene	ND		0.50		ug/L			11/20/15 05:00	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/20/15 05:00	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/20/15 05:00	1
1,2-Dichloropropane	ND		0.50		ug/L			11/20/15 05:00	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			11/20/15 05:00	1
trans-1,3-Dichloropropane	ND		0.50		ug/L			11/20/15 05:00	1
Ethylbenzene	2.5		0.50		ug/L			11/20/15 05:00	1
Hexachlorobutadiene	ND		1.0		ug/L			11/20/15 05:00	1
2-Hexanone	ND		50		ug/L			11/20/15 05:00	1
Isopropylbenzene	20		0.50		ug/L			11/20/15 05:00	1
4-Isopropyltoluene	ND		1.0		ug/L			11/20/15 05:00	1
Methylene Chloride	ND		5.0		ug/L			11/20/15 05:00	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/20/15 05:00	1
Naphthalene	44		1.0		ug/L			11/20/15 05:00	1
N-Propylbenzene	20		1.0		ug/L			11/20/15 05:00	1
Styrene	ND		0.50		ug/L			11/20/15 05:00	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/20/15 05:00	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-8

Date Collected: 11/10/15 14:28

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-5

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			11/20/15 05:00	1
Tetrachloroethene	ND		0.50		ug/L			11/20/15 05:00	1
Toluene	8.1		0.50		ug/L			11/20/15 05:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/20/15 05:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/15 05:00	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/20/15 05:00	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/20/15 05:00	1
Trichloroethene	ND		0.50		ug/L			11/20/15 05:00	1
Trichlorofluoromethane	ND		1.0		ug/L			11/20/15 05:00	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/20/15 05:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/20/15 05:00	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/20/15 05:00	1
1,3,5-Trimethylbenzene	0.78		0.50		ug/L			11/20/15 05:00	1
Vinyl acetate	13		10		ug/L			11/20/15 05:00	1
Vinyl chloride	ND		0.50		ug/L			11/20/15 05:00	1
Xylenes, Total	14		1.0		ug/L			11/20/15 05:00	1
2,2-Dichloropropane	ND		0.50		ug/L			11/20/15 05:00	1
Gasoline Range Organics (GRO)	1600		50		ug/L			11/20/15 05:38	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		67 - 130		11/20/15 05:00	1
4-Bromofluorobenzene	103		67 - 130		11/20/15 05:38	1
1,2-Dichloroethane-d4 (Surr)	97		72 - 130		11/20/15 05:00	1
1,2-Dichloroethane-d4 (Surr)	100		72 - 130		11/20/15 05:38	1
Toluene-d8 (Surr)	102		70 - 130		11/20/15 05:00	1
Toluene-d8 (Surr)	96		70 - 130		11/20/15 05:38	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			11/11/15 05:32	1
Sulfate	2.7		1.0		mg/L			11/11/15 05:32	1
Nitrate as NO3	ND		1.0		mg/L			11/11/15 05:32	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	81		0.50		mg/L		11/12/15 16:38	11/16/15 18:00	1
Manganese	1.8		0.020		mg/L		11/12/15 16:38	11/13/15 23:42	1
Potassium	6.5		1.0		mg/L		11/12/15 16:38	11/13/15 23:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	63		0.10		mg/L			11/17/15 15:21	1
Ferrous Iron	18	HF	1.0		mg/L			11/11/15 21:06	10
Ammonia	0.30		0.20		mg/L		11/13/15 23:00	11/15/15 18:20	1
Orthophosphate as P	0.044		0.020		mg/L			11/11/15 15:57	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-9

Date Collected: 11/10/15 14:55

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-6

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			11/20/15 05:29	1
Acetone	ND		50		ug/L			11/20/15 05:29	1
Benzene	ND		0.50		ug/L			11/20/15 05:29	1
Dichlorobromomethane	ND		0.50		ug/L			11/20/15 05:29	1
Bromobenzene	ND		1.0		ug/L			11/20/15 05:29	1
Chlorobromomethane	ND		1.0		ug/L			11/20/15 05:29	1
Bromoform	ND		1.0		ug/L			11/20/15 05:29	1
Bromomethane	ND		1.0		ug/L			11/20/15 05:29	1
2-Butanone (MEK)	ND		50		ug/L			11/20/15 05:29	1
n-Butylbenzene	ND		1.0		ug/L			11/20/15 05:29	1
sec-Butylbenzene	1.3		1.0		ug/L			11/20/15 05:29	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/15 05:29	1
Carbon disulfide	ND		5.0		ug/L			11/20/15 05:29	1
Carbon tetrachloride	ND		0.50		ug/L			11/20/15 05:29	1
Chlorobenzene	ND		0.50		ug/L			11/20/15 05:29	1
Chloroethane	ND		1.0		ug/L			11/20/15 05:29	1
Chloroform	ND		1.0		ug/L			11/20/15 05:29	1
Chloromethane	ND		1.0		ug/L			11/20/15 05:29	1
2-Chlorotoluene	ND		0.50		ug/L			11/20/15 05:29	1
4-Chlorotoluene	ND		0.50		ug/L			11/20/15 05:29	1
Chlorodibromomethane	ND		0.50		ug/L			11/20/15 05:29	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/20/15 05:29	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/20/15 05:29	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/20/15 05:29	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/15 05:29	1
1,1-Dichloropropene	ND		0.50		ug/L			11/20/15 05:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/20/15 05:29	1
Ethylene Dibromide	ND		0.50		ug/L			11/20/15 05:29	1
Dibromomethane	ND		0.50		ug/L			11/20/15 05:29	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/20/15 05:29	1
1,1-Dichloroethane	ND		0.50		ug/L			11/20/15 05:29	1
1,2-Dichloroethane	ND		0.50		ug/L			11/20/15 05:29	1
1,1-Dichloroethene	ND		0.50		ug/L			11/20/15 05:29	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/20/15 05:29	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/20/15 05:29	1
1,2-Dichloropropane	ND		0.50		ug/L			11/20/15 05:29	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/20/15 05:29	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/20/15 05:29	1
Ethylbenzene	ND		0.50		ug/L			11/20/15 05:29	1
Hexachlorobutadiene	ND		1.0		ug/L			11/20/15 05:29	1
2-Hexanone	ND		50		ug/L			11/20/15 05:29	1
Isopropylbenzene	0.82		0.50		ug/L			11/20/15 05:29	1
4-Isopropyltoluene	ND		1.0		ug/L			11/20/15 05:29	1
Methylene Chloride	ND		5.0		ug/L			11/20/15 05:29	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/20/15 05:29	1
Naphthalene	ND		1.0		ug/L			11/20/15 05:29	1
N-Propylbenzene	ND		1.0		ug/L			11/20/15 05:29	1
Styrene	ND		0.50		ug/L			11/20/15 05:29	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/20/15 05:29	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-9

Date Collected: 11/10/15 14:55

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-6

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			11/20/15 05:29	1
Tetrachloroethene	ND		0.50		ug/L			11/20/15 05:29	1
Toluene	ND		0.50		ug/L			11/20/15 05:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/20/15 05:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/15 05:29	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/20/15 05:29	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/20/15 05:29	1
Trichloroethene	ND		0.50		ug/L			11/20/15 05:29	1
Trichlorofluoromethane	ND		1.0		ug/L			11/20/15 05:29	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/20/15 05:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/20/15 05:29	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/20/15 05:29	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/20/15 05:29	1
Vinyl acetate	ND		10		ug/L			11/20/15 05:29	1
Vinyl chloride	ND		0.50		ug/L			11/20/15 05:29	1
Xylenes, Total	ND		1.0		ug/L			11/20/15 05:29	1
2,2-Dichloropropane	ND		0.50		ug/L			11/20/15 05:29	1
Gasoline Range Organics (GRO)	ND		50		ug/L			11/20/15 06:07	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130		11/20/15 05:29	1
4-Bromofluorobenzene	97		67 - 130		11/20/15 06:07	1
1,2-Dichloroethane-d4 (Surr)	107		72 - 130		11/20/15 05:29	1
1,2-Dichloroethane-d4 (Surr)	93		72 - 130		11/20/15 06:07	1
Toluene-d8 (Surr)	98		70 - 130		11/20/15 05:29	1
Toluene-d8 (Surr)	97		70 - 130		11/20/15 06:07	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			11/11/15 06:06	1
Sulfate	87		10		mg/L			11/11/15 06:23	10
Nitrate as NO3	ND		1.0		mg/L			11/11/15 06:06	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	23		0.50		mg/L		11/12/15 16:38	11/16/15 18:05	1
Manganese	4.0		0.020		mg/L		11/12/15 16:38	11/13/15 23:47	1
Potassium	1.8		1.0		mg/L		11/12/15 16:38	11/13/15 23:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	22		0.10		mg/L			11/17/15 15:21	1
Ferrous Iron	0.93	HF	0.10		mg/L			11/11/15 21:06	1
Ammonia	ND		0.20		mg/L		11/13/15 23:00	11/15/15 18:23	1
Orthophosphate as P	0.064		0.020		mg/L			11/11/15 15:57	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-10
Date Collected: 11/10/15 15:28
Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-7
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			11/20/15 12:15	1
Acetone	ND		50		ug/L			11/20/15 12:15	1
Benzene	ND		0.50		ug/L			11/20/15 12:15	1
Dichlorobromomethane	ND		0.50		ug/L			11/20/15 12:15	1
Bromobenzene	ND		1.0		ug/L			11/20/15 12:15	1
Chlorobromomethane	ND		1.0		ug/L			11/20/15 12:15	1
Bromoform	ND		1.0		ug/L			11/20/15 12:15	1
Bromomethane	ND		1.0		ug/L			11/20/15 12:15	1
2-Butanone (MEK)	ND		50		ug/L			11/20/15 12:15	1
n-Butylbenzene	ND		1.0		ug/L			11/20/15 12:15	1
sec-Butylbenzene	1.5		1.0		ug/L			11/20/15 12:15	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/15 12:15	1
Carbon disulfide	ND		5.0		ug/L			11/20/15 12:15	1
Carbon tetrachloride	ND		0.50		ug/L			11/20/15 12:15	1
Chlorobenzene	ND		0.50		ug/L			11/20/15 12:15	1
Chloroethane	ND		1.0		ug/L			11/20/15 12:15	1
Chloroform	ND		1.0		ug/L			11/20/15 12:15	1
Chloromethane	ND		1.0		ug/L			11/20/15 12:15	1
2-Chlorotoluene	ND		0.50		ug/L			11/20/15 12:15	1
4-Chlorotoluene	ND		0.50		ug/L			11/20/15 12:15	1
Chlorodibromomethane	ND		0.50		ug/L			11/20/15 12:15	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/20/15 12:15	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/20/15 12:15	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/20/15 12:15	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/15 12:15	1
1,1-Dichloropropene	ND		0.50		ug/L			11/20/15 12:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/20/15 12:15	1
Ethylene Dibromide	ND		0.50		ug/L			11/20/15 12:15	1
Dibromomethane	ND		0.50		ug/L			11/20/15 12:15	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/20/15 12:15	1
1,1-Dichloroethane	ND		0.50		ug/L			11/20/15 12:15	1
1,2-Dichloroethane	ND		0.50		ug/L			11/20/15 12:15	1
1,1-Dichloroethene	ND		0.50		ug/L			11/20/15 12:15	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/20/15 12:15	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/20/15 12:15	1
1,2-Dichloropropane	ND		0.50		ug/L			11/20/15 12:15	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/20/15 12:15	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/20/15 12:15	1
Ethylbenzene	ND		0.50		ug/L			11/20/15 12:15	1
Hexachlorobutadiene	ND		1.0		ug/L			11/20/15 12:15	1
2-Hexanone	ND		50		ug/L			11/20/15 12:15	1
Isopropylbenzene	ND		0.50		ug/L			11/20/15 12:15	1
4-Isopropyltoluene	ND		1.0		ug/L			11/20/15 12:15	1
Methylene Chloride	ND		5.0		ug/L			11/20/15 12:15	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/20/15 12:15	1
Naphthalene	ND		1.0		ug/L			11/20/15 12:15	1
N-Propylbenzene	ND		1.0		ug/L			11/20/15 12:15	1
Styrene	ND		0.50		ug/L			11/20/15 12:15	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/20/15 12:15	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-10

Date Collected: 11/10/15 15:28

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-7

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			11/20/15 12:15	1
Tetrachloroethene	ND		0.50		ug/L			11/20/15 12:15	1
Toluene	ND		0.50		ug/L			11/20/15 12:15	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/20/15 12:15	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/15 12:15	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/20/15 12:15	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/20/15 12:15	1
Trichloroethene	ND		0.50		ug/L			11/20/15 12:15	1
Trichlorofluoromethane	ND		1.0		ug/L			11/20/15 12:15	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/20/15 12:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/20/15 12:15	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/20/15 12:15	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/20/15 12:15	1
Vinyl acetate	ND		10		ug/L			11/20/15 12:15	1
Vinyl chloride	ND		0.50		ug/L			11/20/15 12:15	1
Xylenes, Total	ND		1.0		ug/L			11/20/15 12:15	1
2,2-Dichloropropane	ND		0.50		ug/L			11/20/15 12:15	1
Gasoline Range Organics (GRO)	ND		50		ug/L			11/20/15 12:15	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		67 - 130					11/20/15 12:15	1
1,2-Dichloroethane-d4 (Surr)	103		72 - 130					11/20/15 12:15	1
Toluene-d8 (Surr)	99		70 - 130					11/20/15 12:15	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			11/11/15 06:40	1
Sulfate	32		10		mg/L			11/11/15 06:57	10
Nitrate as NO3	25		10		mg/L			11/11/15 06:57	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	43		0.50		mg/L		11/12/15 16:38	11/16/15 18:11	1
Manganese	0.67		0.020		mg/L		11/12/15 16:38	11/13/15 23:52	1
Potassium	4.5		1.0		mg/L		11/12/15 16:38	11/13/15 23:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	43		0.10		mg/L			11/17/15 15:21	1
Ferrous Iron	ND	HF	0.10		mg/L			11/11/15 21:06	1
Ammonia	ND		0.20		mg/L		11/13/15 23:00	11/15/15 18:26	1
Orthophosphate as P	0.024		0.020		mg/L			11/11/15 15:57	1

TestAmerica Pleasanton

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (67-130)	12DCE (72-130)	TOL (70-130)
720-68596-1	MW-4R	98	96	97
720-68596-1	MW-4R	96	93	99
720-68596-1	MW-4R	95	82	85
720-68596-2	MW-5R	97	99	97
720-68596-2	MW-5R	96	97	98
720-68596-3	MW-6R	97	99	98
720-68596-3	MW-6R	96	95	97
720-68596-4	MW-7R	96	100	96
720-68596-4	MW-7R	95	96	97
720-68596-5	MW-8	104	97	102
720-68596-5	MW-8	103	100	96
720-68596-6	MW-9	97	107	98
720-68596-6	MW-9	97	93	97
720-68596-7	MW-10	98	103	99
720-68596-7 MS	MW-10	99	99	97
720-68596-7 MSD	MW-10	98	98	97
LCS 720-192922/5	Lab Control Sample	94	92	97
LCS 720-192924/7	Lab Control Sample	96	96	97
LCS 720-192951/5	Lab Control Sample	96	95	97
LCS 720-192951/7	Lab Control Sample	97	104	98
LCS 720-193036/6	Lab Control Sample	95	77	87
LCS 720-193036/8	Lab Control Sample	93	80	86
LCSD 720-192922/6	Lab Control Sample Dup	97	97	97
LCSD 720-192924/8	Lab Control Sample Dup	99	97	99
LCSD 720-192951/6	Lab Control Sample Dup	95	96	98
LCSD 720-192951/8	Lab Control Sample Dup	96	99	99
LCSD 720-193036/7	Lab Control Sample Dup	91	81	87
LCSD 720-193036/9	Lab Control Sample Dup	92	82	89
MB 720-192922/4	Method Blank	95	99	98
MB 720-192924/4	Method Blank	94	96	96
MB 720-192951/4	Method Blank	94	100	97
MB 720-193036/5	Method Blank	92	85	84

Surrogate Legend

BFB = 4-Bromofluorobenzene

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

TOL = Toluene-d8 (Surr)

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: MB 720-192922/4

Matrix: Water

Analysis Batch: 192922

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/19/15 19:17	1
Acetone	ND		50		ug/L			11/19/15 19:17	1
Benzene	ND		0.50		ug/L			11/19/15 19:17	1
Dichlorobromomethane	ND		0.50		ug/L			11/19/15 19:17	1
Bromobenzene	ND		1.0		ug/L			11/19/15 19:17	1
Chlorobromomethane	ND		1.0		ug/L			11/19/15 19:17	1
Bromoform	ND		1.0		ug/L			11/19/15 19:17	1
Bromomethane	ND		1.0		ug/L			11/19/15 19:17	1
2-Butanone (MEK)	ND		50		ug/L			11/19/15 19:17	1
n-Butylbenzene	ND		1.0		ug/L			11/19/15 19:17	1
sec-Butylbenzene	ND		1.0		ug/L			11/19/15 19:17	1
tert-Butylbenzene	ND		1.0		ug/L			11/19/15 19:17	1
Carbon disulfide	ND		5.0		ug/L			11/19/15 19:17	1
Carbon tetrachloride	ND		0.50		ug/L			11/19/15 19:17	1
Chlorobenzene	ND		0.50		ug/L			11/19/15 19:17	1
Chloroethane	ND		1.0		ug/L			11/19/15 19:17	1
Chloroform	ND		1.0		ug/L			11/19/15 19:17	1
Chloromethane	ND		1.0		ug/L			11/19/15 19:17	1
2-Chlorotoluene	ND		0.50		ug/L			11/19/15 19:17	1
4-Chlorotoluene	ND		0.50		ug/L			11/19/15 19:17	1
Chlorodibromomethane	ND		0.50		ug/L			11/19/15 19:17	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/19/15 19:17	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/19/15 19:17	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/19/15 19:17	1
1,3-Dichloropropane	ND		1.0		ug/L			11/19/15 19:17	1
1,1-Dichloropropene	ND		0.50		ug/L			11/19/15 19:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/19/15 19:17	1
Ethylene Dibromide	ND		0.50		ug/L			11/19/15 19:17	1
Dibromomethane	ND		0.50		ug/L			11/19/15 19:17	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/19/15 19:17	1
1,1-Dichloroethane	ND		0.50		ug/L			11/19/15 19:17	1
1,2-Dichloroethane	ND		0.50		ug/L			11/19/15 19:17	1
1,1-Dichloroethene	ND		0.50		ug/L			11/19/15 19:17	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/19/15 19:17	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/19/15 19:17	1
1,2-Dichloropropane	ND		0.50		ug/L			11/19/15 19:17	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/19/15 19:17	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/19/15 19:17	1
Ethylbenzene	ND		0.50		ug/L			11/19/15 19:17	1
Hexachlorobutadiene	ND		1.0		ug/L			11/19/15 19:17	1
2-Hexanone	ND		50		ug/L			11/19/15 19:17	1
Isopropylbenzene	ND		0.50		ug/L			11/19/15 19:17	1
4-Isopropyltoluene	ND		1.0		ug/L			11/19/15 19:17	1
Methylene Chloride	ND		5.0		ug/L			11/19/15 19:17	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/19/15 19:17	1
Naphthalene	ND		1.0		ug/L			11/19/15 19:17	1
N-Propylbenzene	ND		1.0		ug/L			11/19/15 19:17	1
Styrene	ND		0.50		ug/L			11/19/15 19:17	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: MB 720-192922/4

Matrix: Water

Analysis Batch: 192922

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/19/15 19:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/19/15 19:17	1
Tetrachloroethene	ND		0.50		ug/L			11/19/15 19:17	1
Toluene	ND		0.50		ug/L			11/19/15 19:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/19/15 19:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/19/15 19:17	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/19/15 19:17	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/19/15 19:17	1
Trichloroethene	ND		0.50		ug/L			11/19/15 19:17	1
Trichlorofluoromethane	ND		1.0		ug/L			11/19/15 19:17	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/19/15 19:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/19/15 19:17	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/19/15 19:17	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/19/15 19:17	1
Vinyl acetate	ND		10		ug/L			11/19/15 19:17	1
Vinyl chloride	ND		0.50		ug/L			11/19/15 19:17	1
Xylenes, Total	ND		1.0		ug/L			11/19/15 19:17	1
2,2-Dichloropropane	ND		0.50		ug/L			11/19/15 19:17	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			11/19/15 19:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130		11/19/15 19:17	1
1,2-Dichloroethane-d4 (Surr)	99		72 - 130		11/19/15 19:17	1
Toluene-d8 (Surr)	98		70 - 130		11/19/15 19:17	1

Lab Sample ID: LCS 720-192922/5

Matrix: Water

Analysis Batch: 192922

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.0		ug/L		100	62 - 130
Acetone	125	120		ug/L		96	26 - 180
Benzene	25.0	24.5		ug/L		98	79 - 130
Dichlorobromomethane	25.0	26.1		ug/L		104	70 - 130
Bromobenzene	25.0	23.6		ug/L		94	70 - 130
Chlorobromomethane	25.0	25.0		ug/L		100	70 - 130
Bromoform	25.0	26.3		ug/L		105	68 - 136
Bromomethane	25.0	26.6		ug/L		107	43 - 151
2-Butanone (MEK)	125	117		ug/L		94	54 - 130
n-Butylbenzene	25.0	23.8		ug/L		95	70 - 142
sec-Butylbenzene	25.0	23.9		ug/L		95	70 - 134
tert-Butylbenzene	25.0	24.0		ug/L		96	70 - 135
Carbon disulfide	25.0	22.7		ug/L		91	58 - 130
Carbon tetrachloride	25.0	24.2		ug/L		97	70 - 146
Chlorobenzene	25.0	24.4		ug/L		98	70 - 130
Chloroethane	25.0	26.4		ug/L		106	62 - 138
Chloroform	25.0	24.7		ug/L		99	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: LCS 720-192922/5

Matrix: Water

Analysis Batch: 192922

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	24.7		ug/L		99	52 - 175
2-Chlorotoluene	25.0	23.4		ug/L		94	70 - 130
4-Chlorotoluene	25.0	23.1		ug/L		93	70 - 130
Chlorodibromomethane	25.0	26.6		ug/L		106	70 - 145
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	25.1		ug/L		101	70 - 130
1,1-Dichloropropene	25.0	23.7		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.5		ug/L		98	70 - 136
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130
Dibromomethane	25.0	25.0		ug/L		100	70 - 130
Dichlorodifluoromethane	25.0	20.6		ug/L		82	34 - 132
1,1-Dichloroethane	25.0	25.1		ug/L		100	70 - 130
1,2-Dichloroethane	25.0	23.4		ug/L		93	61 - 132
1,1-Dichloroethene	25.0	22.3		ug/L		89	64 - 128
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	68 - 130
1,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	70 - 140
Ethylbenzene	25.0	24.0		ug/L		96	80 - 120
Hexachlorobutadiene	25.0	22.0		ug/L		88	70 - 130
2-Hexanone	125	116		ug/L		93	60 - 164
Isopropylbenzene	25.0	24.4		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 130
Methylene Chloride	25.0	26.3		ug/L		105	70 - 147
4-Methyl-2-pentanone (MIBK)	125	117		ug/L		94	58 - 130
Naphthalene	25.0	22.7		ug/L		91	70 - 130
N-Propylbenzene	25.0	24.8		ug/L		99	70 - 130
Styrene	25.0	24.3		ug/L		97	70 - 130
1,1,1,2-Tetrachloroethane	25.0	24.6		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.1		ug/L		96	70 - 130
Tetrachloroethene	25.0	23.9		ug/L		96	70 - 130
Toluene	25.0	23.1		ug/L		92	78 - 120
1,2,3-Trichlorobenzene	25.0	23.6		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	25.0	22.9		ug/L		91	70 - 130
1,1,1-Trichloroethane	25.0	24.3		ug/L		97	70 - 130
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	70 - 130
Trichloroethene	25.0	24.9		ug/L		99	70 - 130
Trichlorofluoromethane	25.0	24.9		ug/L		100	66 - 132
1,2,3-Trichloropropane	25.0	23.2		ug/L		93	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.0		ug/L		92	42 - 162
1,2,4-Trimethylbenzene	25.0	24.4		ug/L		98	70 - 132
1,3,5-Trimethylbenzene	25.0	24.1		ug/L		97	70 - 130
Vinyl acetate	25.0	26.7		ug/L		107	43 - 163
Vinyl chloride	25.0	28.2		ug/L		113	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: LCS 720-192922/5

Matrix: Water

Analysis Batch: 192922

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	23.5		ug/L		94	70 - 142
o-Xylene	25.0	24.2		ug/L		97	70 - 130
2,2-Dichloropropane	25.0	23.8		ug/L		95	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	92		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 720-192922/6

Matrix: Water

Analysis Batch: 192922

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	25.3		ug/L		101	62 - 130	1	20
Acetone	125	132		ug/L		106	26 - 180	9	30
Benzene	25.0	24.5		ug/L		98	79 - 130	0	20
Dichlorobromomethane	25.0	25.7		ug/L		103	70 - 130	1	20
Bromobenzene	25.0	23.1		ug/L		93	70 - 130	2	20
Chlorobromomethane	25.0	25.3		ug/L		101	70 - 130	1	20
Bromoform	25.0	27.1		ug/L		108	68 - 136	3	20
Bromomethane	25.0	26.2		ug/L		105	43 - 151	2	20
2-Butanone (MEK)	125	119		ug/L		95	54 - 130	1	20
n-Butylbenzene	25.0	23.7		ug/L		95	70 - 142	1	20
sec-Butylbenzene	25.0	24.1		ug/L		97	70 - 134	1	20
tert-Butylbenzene	25.0	24.1		ug/L		97	70 - 135	0	20
Carbon disulfide	25.0	22.9		ug/L		92	58 - 130	1	20
Carbon tetrachloride	25.0	24.5		ug/L		98	70 - 146	1	20
Chlorobenzene	25.0	24.9		ug/L		100	70 - 130	2	20
Chloroethane	25.0	26.0		ug/L		104	62 - 138	2	20
Chloroform	25.0	24.9		ug/L		99	70 - 130	1	20
Chloromethane	25.0	25.7		ug/L		103	52 - 175	4	20
2-Chlorotoluene	25.0	23.2		ug/L		93	70 - 130	1	20
4-Chlorotoluene	25.0	22.8		ug/L		91	70 - 130	2	20
Chlorodibromomethane	25.0	26.3		ug/L		105	70 - 145	1	20
1,2-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130	1	20
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	1	20
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130	1	20
1,3-Dichloropropane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1-Dichloropropene	25.0	24.1		ug/L		97	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	24.1		ug/L		96	70 - 136	1	20
Ethylene Dibromide	25.0	24.9		ug/L		99	70 - 130	0	20
Dibromomethane	25.0	24.6		ug/L		98	70 - 130	2	20
Dichlorodifluoromethane	25.0	21.4		ug/L		85	34 - 132	4	20
1,1-Dichloroethane	25.0	25.3		ug/L		101	70 - 130	1	20
1,2-Dichloroethane	25.0	23.5		ug/L		94	61 - 132	1	20
1,1-Dichloroethene	25.0	22.6		ug/L		90	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	70 - 130	0	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: LCSD 720-192922/6

Matrix: Water

Analysis Batch: 192922

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
trans-1,2-Dichloroethene	25.0	24.6		ug/L		98	68 - 130	0	20
1,2-Dichloropropane	25.0	25.4		ug/L		101	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	25.6		ug/L		102	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 140	1	20
Ethylbenzene	25.0	24.6		ug/L		99	80 - 120	2	20
Hexachlorobutadiene	25.0	21.8		ug/L		87	70 - 130	1	20
2-Hexanone	125	121		ug/L		97	60 - 164	4	20
Isopropylbenzene	25.0	25.0		ug/L		100	70 - 130	2	20
4-Isopropyltoluene	25.0	24.1		ug/L		97	70 - 130	1	20
Methylene Chloride	25.0	26.1		ug/L		105	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	58 - 130	1	20
Naphthalene	25.0	23.3		ug/L		93	70 - 130	2	20
N-Propylbenzene	25.0	24.5		ug/L		98	70 - 130	1	20
Styrene	25.0	24.6		ug/L		98	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	23.9		ug/L		96	70 - 130	1	20
Tetrachloroethene	25.0	23.9		ug/L		95	70 - 130	0	20
Toluene	25.0	23.8		ug/L		95	78 - 120	3	20
1,2,3-Trichlorobenzene	25.0	23.4		ug/L		93	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	22.7		ug/L		91	70 - 130	1	20
1,1,1-Trichloroethane	25.0	24.4		ug/L		98	70 - 130	1	20
1,1,2-Trichloroethane	25.0	25.1		ug/L		100	70 - 130	2	20
Trichloroethene	25.0	24.9		ug/L		100	70 - 130	0	20
Trichlorofluoromethane	25.0	24.8		ug/L		99	66 - 132	1	20
1,2,3-Trichloropropane	25.0	23.3		ug/L		93	70 - 130	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.7		ug/L		91	42 - 162	1	20
1,2,4-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 132	0	20
1,3,5-Trimethylbenzene	25.0	23.9		ug/L		96	70 - 130	1	20
Vinyl acetate	25.0	26.8		ug/L		107	43 - 163	1	20
Vinyl chloride	25.0	27.5		ug/L		110	54 - 135	2	20
m-Xylene & p-Xylene	25.0	24.0		ug/L		96	70 - 142	2	20
o-Xylene	25.0	24.4		ug/L		98	70 - 130	1	20
2,2-Dichloropropane	25.0	23.9		ug/L		96	70 - 140	0	20

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

Lab Sample ID: MB 720-192924/4

Matrix: Water

Analysis Batch: 192924

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		50		ug/L			11/19/15 19:47	1
-C5-C12									

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: MB 720-192924/4

Matrix: Water

Analysis Batch: 192924

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		67 - 130		11/19/15 19:47	1
1,2-Dichloroethane-d4 (Surr)	96		72 - 130		11/19/15 19:47	1
Toluene-d8 (Surr)	96		70 - 130		11/19/15 19:47	1

Lab Sample ID: LCS 720-192924/7

Matrix: Water

Analysis Batch: 192924

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	416		ug/L		83	62 - 120

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

Lab Sample ID: LCSD 720-192924/8

Matrix: Water

Analysis Batch: 192924

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	420		ug/L		84	62 - 120	1	20

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

Lab Sample ID: MB 720-192951/4

Matrix: Water

Analysis Batch: 192951

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/20/15 08:51	1
Acetone	ND		50		ug/L			11/20/15 08:51	1
Benzene	ND		0.50		ug/L			11/20/15 08:51	1
Dichlorobromomethane	ND		0.50		ug/L			11/20/15 08:51	1
Bromobenzene	ND		1.0		ug/L			11/20/15 08:51	1
Chlorobromomethane	ND		1.0		ug/L			11/20/15 08:51	1
Bromoform	ND		1.0		ug/L			11/20/15 08:51	1
Bromomethane	ND		1.0		ug/L			11/20/15 08:51	1
2-Butanone (MEK)	ND		50		ug/L			11/20/15 08:51	1
n-Butylbenzene	ND		1.0		ug/L			11/20/15 08:51	1
sec-Butylbenzene	ND		1.0		ug/L			11/20/15 08:51	1
tert-Butylbenzene	ND		1.0		ug/L			11/20/15 08:51	1
Carbon disulfide	ND		5.0		ug/L			11/20/15 08:51	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: MB 720-192951/4

Matrix: Water

Analysis Batch: 192951

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.50		ug/L			11/20/15 08:51	1
Chlorobenzene	ND		0.50		ug/L			11/20/15 08:51	1
Chloroethane	ND		1.0		ug/L			11/20/15 08:51	1
Chloroform	ND		1.0		ug/L			11/20/15 08:51	1
Chloromethane	ND		1.0		ug/L			11/20/15 08:51	1
2-Chlorotoluene	ND		0.50		ug/L			11/20/15 08:51	1
4-Chlorotoluene	ND		0.50		ug/L			11/20/15 08:51	1
Chlorodibromomethane	ND		0.50		ug/L			11/20/15 08:51	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/20/15 08:51	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/20/15 08:51	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/20/15 08:51	1
1,3-Dichloropropane	ND		1.0		ug/L			11/20/15 08:51	1
1,1-Dichloropropene	ND		0.50		ug/L			11/20/15 08:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/20/15 08:51	1
Ethylene Dibromide	ND		0.50		ug/L			11/20/15 08:51	1
Dibromomethane	ND		0.50		ug/L			11/20/15 08:51	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/20/15 08:51	1
1,1-Dichloroethane	ND		0.50		ug/L			11/20/15 08:51	1
1,2-Dichloroethane	ND		0.50		ug/L			11/20/15 08:51	1
1,1-Dichloroethene	ND		0.50		ug/L			11/20/15 08:51	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/20/15 08:51	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/20/15 08:51	1
1,2-Dichloropropane	ND		0.50		ug/L			11/20/15 08:51	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/20/15 08:51	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/20/15 08:51	1
Ethylbenzene	ND		0.50		ug/L			11/20/15 08:51	1
Hexachlorobutadiene	ND		1.0		ug/L			11/20/15 08:51	1
2-Hexanone	ND		50		ug/L			11/20/15 08:51	1
Isopropylbenzene	ND		0.50		ug/L			11/20/15 08:51	1
4-Isopropyltoluene	ND		1.0		ug/L			11/20/15 08:51	1
Methylene Chloride	ND		5.0		ug/L			11/20/15 08:51	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/20/15 08:51	1
Naphthalene	ND		1.0		ug/L			11/20/15 08:51	1
N-Propylbenzene	ND		1.0		ug/L			11/20/15 08:51	1
Styrene	ND		0.50		ug/L			11/20/15 08:51	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/20/15 08:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/20/15 08:51	1
Tetrachloroethene	ND		0.50		ug/L			11/20/15 08:51	1
Toluene	ND		0.50		ug/L			11/20/15 08:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/20/15 08:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/20/15 08:51	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/20/15 08:51	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/20/15 08:51	1
Trichloroethene	ND		0.50		ug/L			11/20/15 08:51	1
Trichlorofluoromethane	ND		1.0		ug/L			11/20/15 08:51	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/20/15 08:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/20/15 08:51	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/20/15 08:51	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: MB 720-192951/4

Matrix: Water

Analysis Batch: 192951

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/20/15 08:51	1
Vinyl acetate	ND		10		ug/L			11/20/15 08:51	1
Vinyl chloride	ND		0.50		ug/L			11/20/15 08:51	1
Xylenes, Total	ND		1.0		ug/L			11/20/15 08:51	1
2,2-Dichloropropane	ND		0.50		ug/L			11/20/15 08:51	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			11/20/15 08:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		67 - 130		11/20/15 08:51	1
1,2-Dichloroethane-d4 (Surr)	100		72 - 130		11/20/15 08:51	1
Toluene-d8 (Surr)	97		70 - 130		11/20/15 08:51	1

Lab Sample ID: LCS 720-192951/5

Matrix: Water

Analysis Batch: 192951

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.2		ug/L		97	62 - 130
Acetone	125	128		ug/L		102	26 - 180
Benzene	25.0	23.1		ug/L		92	79 - 130
Dichlorobromomethane	25.0	24.6		ug/L		98	70 - 130
Bromobenzene	25.0	22.4		ug/L		90	70 - 130
Chlorobromomethane	25.0	23.9		ug/L		95	70 - 130
Bromoform	25.0	25.6		ug/L		103	68 - 136
Bromomethane	25.0	25.5		ug/L		102	43 - 151
2-Butanone (MEK)	125	111		ug/L		89	54 - 130
n-Butylbenzene	25.0	23.5		ug/L		94	70 - 142
sec-Butylbenzene	25.0	22.9		ug/L		91	70 - 134
tert-Butylbenzene	25.0	22.6		ug/L		90	70 - 135
Carbon disulfide	25.0	21.1		ug/L		84	58 - 130
Carbon tetrachloride	25.0	22.9		ug/L		92	70 - 146
Chlorobenzene	25.0	23.7		ug/L		95	70 - 130
Chloroethane	25.0	25.0		ug/L		100	62 - 138
Chloroform	25.0	23.2		ug/L		93	70 - 130
Chloromethane	25.0	24.3		ug/L		97	52 - 175
2-Chlorotoluene	25.0	22.3		ug/L		89	70 - 130
4-Chlorotoluene	25.0	22.3		ug/L		89	70 - 130
Chlorodibromomethane	25.0	25.4		ug/L		102	70 - 145
1,2-Dichlorobenzene	25.0	22.6		ug/L		90	70 - 130
1,3-Dichlorobenzene	25.0	22.6		ug/L		91	70 - 130
1,4-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,3-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
1,1-Dichloropropane	25.0	22.7		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.4		ug/L		90	70 - 136
Ethylene Dibromide	25.0	23.6		ug/L		94	70 - 130
Dibromomethane	25.0	23.3		ug/L		93	70 - 130
Dichlorodifluoromethane	25.0	20.4		ug/L		82	34 - 132

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: LCS 720-192951/5

Matrix: Water

Analysis Batch: 192951

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130
1,2-Dichloroethane	25.0	22.4		ug/L		90	61 - 132
1,1-Dichloroethene	25.0	21.0		ug/L		84	64 - 128
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	70 - 130
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	68 - 130
1,2-Dichloropropane	25.0	23.9		ug/L		96	70 - 130
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	70 - 130
trans-1,3-Dichloropropene	25.0	25.5		ug/L		102	70 - 140
Ethylbenzene	25.0	23.4		ug/L		93	80 - 120
Hexachlorobutadiene	25.0	21.6		ug/L		86	70 - 130
2-Hexanone	125	114		ug/L		91	60 - 164
Isopropylbenzene	25.0	23.7		ug/L		95	70 - 130
4-Isopropyltoluene	25.0	23.5		ug/L		94	70 - 130
Methylene Chloride	25.0	23.6		ug/L		94	70 - 147
4-Methyl-2-pentanone (MIBK)	125	112		ug/L		89	58 - 130
Naphthalene	25.0	21.8		ug/L		87	70 - 130
N-Propylbenzene	25.0	23.5		ug/L		94	70 - 130
Styrene	25.0	23.6		ug/L		95	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.6		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.4		ug/L		90	70 - 130
Tetrachloroethene	25.0	22.8		ug/L		91	70 - 130
Toluene	25.0	22.5		ug/L		90	78 - 120
1,2,3-Trichlorobenzene	25.0	23.1		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,1,1-Trichloroethane	25.0	22.6		ug/L		90	70 - 130
1,1,2-Trichloroethane	25.0	24.2		ug/L		97	70 - 130
Trichloroethene	25.0	23.6		ug/L		94	70 - 130
Trichlorofluoromethane	25.0	23.0		ug/L		92	66 - 132
1,2,3-Trichloropropane	25.0	22.1		ug/L		89	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.4		ug/L		86	42 - 162
1,2,4-Trimethylbenzene	25.0	23.6		ug/L		94	70 - 132
1,3,5-Trimethylbenzene	25.0	22.9		ug/L		92	70 - 130
Vinyl acetate	25.0	24.9		ug/L		100	43 - 163
Vinyl chloride	25.0	25.3		ug/L		101	54 - 135
m-Xylene & p-Xylene	25.0	22.8		ug/L		91	70 - 142
o-Xylene	25.0	23.3		ug/L		93	70 - 130
2,2-Dichloropropane	25.0	22.1		ug/L		88	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	95		72 - 130
Toluene-d8 (Surr)	97		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: LCS 720-192951/7

Matrix: Water

Analysis Batch: 192951

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)	104		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 720-192951/6

Matrix: Water

Analysis Batch: 192951

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	24.1		ug/L		96	62 - 130	0	20
Acetone	125	128		ug/L		103	26 - 180	0	30
Benzene	25.0	23.2		ug/L		93	79 - 130	0	20
Dichlorobromomethane	25.0	24.6		ug/L		98	70 - 130	0	20
Bromobenzene	25.0	22.5		ug/L		90	70 - 130	0	20
Chlorobromomethane	25.0	23.9		ug/L		96	70 - 130	0	20
Bromoform	25.0	25.3		ug/L		101	68 - 136	1	20
Bromomethane	25.0	25.3		ug/L		101	43 - 151	1	20
2-Butanone (MEK)	125	110		ug/L		88	54 - 130	1	20
n-Butylbenzene	25.0	23.2		ug/L		93	70 - 142	1	20
sec-Butylbenzene	25.0	22.9		ug/L		92	70 - 134	0	20
tert-Butylbenzene	25.0	23.0		ug/L		92	70 - 135	2	20
Carbon disulfide	25.0	21.3		ug/L		85	58 - 130	1	20
Carbon tetrachloride	25.0	22.8		ug/L		91	70 - 146	1	20
Chlorobenzene	25.0	23.4		ug/L		94	70 - 130	1	20
Chloroethane	25.0	25.2		ug/L		101	62 - 138	1	20
Chloroform	25.0	23.4		ug/L		94	70 - 130	1	20
Chloromethane	25.0	24.9		ug/L		99	52 - 175	2	20
2-Chlorotoluene	25.0	22.6		ug/L		90	70 - 130	1	20
4-Chlorotoluene	25.0	22.5		ug/L		90	70 - 130	1	20
Chlorodibromomethane	25.0	25.4		ug/L		101	70 - 145	0	20
1,2-Dichlorobenzene	25.0	22.7		ug/L		91	70 - 130	1	20
1,3-Dichlorobenzene	25.0	22.7		ug/L		91	70 - 130	0	20
1,4-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130	0	20
1,3-Dichloropropane	25.0	23.7		ug/L		95	70 - 130	0	20
1,1-Dichloropropene	25.0	22.6		ug/L		90	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	22.4		ug/L		90	70 - 136	0	20
Ethylene Dibromide	25.0	23.8		ug/L		95	70 - 130	1	20
Dibromomethane	25.0	23.3		ug/L		93	70 - 130	0	20
Dichlorodifluoromethane	25.0	20.4		ug/L		82	34 - 132	0	20
1,1-Dichloroethane	25.0	23.9		ug/L		96	70 - 130	0	20
1,2-Dichloroethane	25.0	22.5		ug/L		90	61 - 132	0	20
1,1-Dichloroethene	25.0	20.9		ug/L		84	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	23.6		ug/L		95	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	68 - 130	2	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: LCSD 720-192951/6

Matrix: Water

Analysis Batch: 192951

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-Dichloropropane	25.0	23.8		ug/L		95	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130	0	20
trans-1,3-Dichloropropene	25.0	25.4		ug/L		102	70 - 140	0	20
Ethylbenzene	25.0	23.0		ug/L		92	80 - 120	1	20
Hexachlorobutadiene	25.0	21.5		ug/L		86	70 - 130	0	20
2-Hexanone	125	113		ug/L		90	60 - 164	1	20
Isopropylbenzene	25.0	23.5		ug/L		94	70 - 130	1	20
4-Isopropyltoluene	25.0	23.6		ug/L		94	70 - 130	0	20
Methylene Chloride	25.0	23.6		ug/L		95	70 - 147	0	20
4-Methyl-2-pentanone (MIBK)	125	111		ug/L		89	58 - 130	0	20
Naphthalene	25.0	21.7		ug/L		87	70 - 130	0	20
N-Propylbenzene	25.0	23.8		ug/L		95	70 - 130	1	20
Styrene	25.0	23.4		ug/L		94	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	23.5		ug/L		94	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	22.5		ug/L		90	70 - 130	0	20
Tetrachloroethene	25.0	22.7		ug/L		91	70 - 130	1	20
Toluene	25.0	22.4		ug/L		89	78 - 120	1	20
1,2,3-Trichlorobenzene	25.0	23.0		ug/L		92	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	22.9		ug/L		92	70 - 130	1	20
1,1,1-Trichloroethane	25.0	22.7		ug/L		91	70 - 130	0	20
1,1,2-Trichloroethane	25.0	24.2		ug/L		97	70 - 130	0	20
Trichloroethene	25.0	23.4		ug/L		94	70 - 130	1	20
Trichlorofluoromethane	25.0	23.2		ug/L		93	66 - 132	1	20
1,2,3-Trichloropropane	25.0	22.4		ug/L		90	70 - 130	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.7		ug/L		87	42 - 162	2	20
1,2,4-Trimethylbenzene	25.0	23.7		ug/L		95	70 - 132	0	20
1,3,5-Trimethylbenzene	25.0	23.2		ug/L		93	70 - 130	1	20
Vinyl acetate	25.0	25.2		ug/L		101	43 - 163	1	20
Vinyl chloride	25.0	24.9		ug/L		100	54 - 135	1	20
m-Xylene & p-Xylene	25.0	22.7		ug/L		91	70 - 142	0	20
o-Xylene	25.0	23.3		ug/L		93	70 - 130	0	20
2,2-Dichloropropane	25.0	22.0		ug/L		88	70 - 140	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	95		67 - 130
1,2-Dichloroethane-d4 (Surr)	96		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 720-192951/8

Matrix: Water

Analysis Batch: 192951

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

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: LCSD 720-192951/8

Matrix: Water

Analysis Batch: 192951

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

Lab Sample ID: 720-68596-7 MS

Matrix: Water

Analysis Batch: 192951

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	25.8		ug/L		103	60 - 138
Acetone	ND		125	120		ug/L		96	60 - 140
Benzene	ND		25.0	23.4		ug/L		94	60 - 140
Dichlorobromomethane	ND		25.0	25.6		ug/L		102	60 - 140
Bromobenzene	ND		25.0	22.1		ug/L		89	60 - 140
Chlorobromomethane	ND		25.0	24.8		ug/L		99	60 - 140
Bromoform	ND		25.0	26.7		ug/L		107	56 - 140
Bromomethane	ND		25.0	24.7		ug/L		99	23 - 140
2-Butanone (MEK)	ND		125	110		ug/L		88	60 - 140
n-Butylbenzene	ND		25.0	22.6		ug/L		90	60 - 140
sec-Butylbenzene	1.5		25.0	23.6		ug/L		88	60 - 140
tert-Butylbenzene	ND		25.0	21.8		ug/L		87	60 - 140
Carbon disulfide	ND		25.0	20.9		ug/L		84	38 - 140
Carbon tetrachloride	ND		25.0	22.7		ug/L		91	60 - 140
Chlorobenzene	ND		25.0	23.8		ug/L		95	60 - 140
Chloroethane	ND		25.0	24.4		ug/L		98	51 - 140
Chloroform	ND		25.0	23.7		ug/L		95	60 - 140
Chloromethane	ND		25.0	23.6		ug/L		95	52 - 140
2-Chlorotoluene	ND		25.0	21.7		ug/L		87	60 - 140
4-Chlorotoluene	ND		25.0	21.8		ug/L		87	60 - 140
Chlorodibromomethane	ND		25.0	26.4		ug/L		106	60 - 140
1,2-Dichlorobenzene	ND		25.0	22.7		ug/L		91	60 - 140
1,3-Dichlorobenzene	ND		25.0	22.4		ug/L		89	60 - 140
1,4-Dichlorobenzene	ND		25.0	23.0		ug/L		92	60 - 140
1,3-Dichloropropane	ND		25.0	24.9		ug/L		100	60 - 140
1,1-Dichloropropene	ND		25.0	22.6		ug/L		90	60 - 140
1,2-Dibromo-3-Chloropropane	ND		25.0	23.2		ug/L		93	60 - 140
Ethylene Dibromide	ND		25.0	24.8		ug/L		99	60 - 140
Dibromomethane	ND		25.0	24.5		ug/L		98	60 - 140
Dichlorodifluoromethane	ND		25.0	18.8		ug/L		75	38 - 140
1,1-Dichloroethane	ND		25.0	24.2		ug/L		97	60 - 140
1,2-Dichloroethane	ND		25.0	24.1		ug/L		96	60 - 140
1,1-Dichloroethene	ND		25.0	20.4		ug/L		82	60 - 140
cis-1,2-Dichloroethene	ND		25.0	24.3		ug/L		97	60 - 140
trans-1,2-Dichloroethene	ND		25.0	22.8		ug/L		91	60 - 140
1,2-Dichloropropane	ND		25.0	24.5		ug/L		98	60 - 140
cis-1,3-Dichloropropene	ND		25.0	25.7		ug/L		103	60 - 140
trans-1,3-Dichloropropene	ND		25.0	27.3		ug/L		109	60 - 140
Ethylbenzene	ND		25.0	23.3		ug/L		93	60 - 140

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: 720-68596-7 MS

Matrix: Water

Analysis Batch: 192951

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
Hexachlorobutadiene	ND		25.0	20.7		ug/L		83	60 - 140
2-Hexanone	ND		125	121		ug/L		97	60 - 140
Isopropylbenzene	ND		25.0	23.5		ug/L		93	60 - 140
4-Isopropyltoluene	ND		25.0	22.7		ug/L		91	60 - 140
Methylene Chloride	ND		25.0	23.5		ug/L		94	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	118		ug/L		95	58 - 130
Naphthalene	ND		25.0	22.5		ug/L		89	56 - 140
N-Propylbenzene	ND		25.0	22.6		ug/L		91	60 - 140
Styrene	ND		25.0	24.0		ug/L		96	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	24.3		ug/L		97	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	22.3		ug/L		89	60 - 140
Tetrachloroethene	ND		25.0	22.9		ug/L		91	60 - 140
Toluene	ND		25.0	22.3		ug/L		89	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	23.5		ug/L		94	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	23.3		ug/L		93	60 - 140
1,1,1-Trichloroethane	ND		25.0	22.5		ug/L		90	60 - 140
1,1,2-Trichloroethane	ND		25.0	25.6		ug/L		102	60 - 140
Trichloroethene	ND		25.0	23.5		ug/L		94	60 - 140
Trichlorofluoromethane	ND		25.0	22.4		ug/L		90	60 - 140
1,2,3-Trichloropropane	ND		25.0	22.2		ug/L		89	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	21.5		ug/L		86	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	23.0		ug/L		92	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	22.0		ug/L		88	60 - 140
Vinyl acetate	ND		25.0	26.7		ug/L		107	40 - 140
Vinyl chloride	ND		25.0	23.6		ug/L		94	58 - 140
m-Xylene & p-Xylene	ND		25.0	23.0		ug/L		92	60 - 140
o-Xylene	ND		25.0	23.6		ug/L		94	60 - 140
2,2-Dichloropropane	ND		25.0	22.1		ug/L		88	60 - 140

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

Lab Sample ID: 720-68596-7 MSD

Matrix: Water

Analysis Batch: 192951

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	25.6		ug/L		102	60 - 138	1	20
Acetone	ND		125	116		ug/L		93	60 - 140	3	20
Benzene	ND		25.0	23.1		ug/L		93	60 - 140	1	20
Dichlorobromomethane	ND		25.0	25.2		ug/L		101	60 - 140	2	20
Bromobenzene	ND		25.0	22.1		ug/L		88	60 - 140	0	20
Chlorobromomethane	ND		25.0	24.1		ug/L		96	60 - 140	3	20
Bromoform	ND		25.0	25.5		ug/L		102	56 - 140	5	20
Bromomethane	ND		25.0	23.9		ug/L		96	23 - 140	3	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: 720-68596-7 MSD

Matrix: Water

Analysis Batch: 192951

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
2-Butanone (MEK)	ND		125	112		ug/L		90	60 - 140	2	20
n-Butylbenzene	ND		25.0	21.9		ug/L		88	60 - 140	3	20
sec-Butylbenzene	1.5		25.0	23.2		ug/L		87	60 - 140	2	20
tert-Butylbenzene	ND		25.0	21.5		ug/L		86	60 - 140	2	20
Carbon disulfide	ND		25.0	20.5		ug/L		82	38 - 140	2	20
Carbon tetrachloride	ND		25.0	22.2		ug/L		89	60 - 140	2	20
Chlorobenzene	ND		25.0	23.3		ug/L		93	60 - 140	2	20
Chloroethane	ND		25.0	23.3		ug/L		93	51 - 140	4	20
Chloroform	ND		25.0	23.6		ug/L		95	60 - 140	0	20
Chloromethane	ND		25.0	23.6		ug/L		94	52 - 140	0	20
2-Chlorotoluene	ND		25.0	21.4		ug/L		86	60 - 140	1	20
4-Chlorotoluene	ND		25.0	21.7		ug/L		87	60 - 140	1	20
Chlorodibromomethane	ND		25.0	25.9		ug/L		104	60 - 140	2	20
1,2-Dichlorobenzene	ND		25.0	22.3		ug/L		89	60 - 140	2	20
1,3-Dichlorobenzene	ND		25.0	22.3		ug/L		89	60 - 140	1	20
1,4-Dichlorobenzene	ND		25.0	22.7		ug/L		91	60 - 140	1	20
1,3-Dichloropropane	ND		25.0	24.4		ug/L		98	60 - 140	2	20
1,1-Dichloropropene	ND		25.0	22.1		ug/L		88	60 - 140	2	20
1,2-Dibromo-3-Chloropropane	ND		25.0	22.0		ug/L		88	60 - 140	6	20
Ethylene Dibromide	ND		25.0	24.2		ug/L		97	60 - 140	2	20
Dibromomethane	ND		25.0	23.9		ug/L		95	60 - 140	3	20
Dichlorodifluoromethane	ND		25.0	17.8		ug/L		71	38 - 140	5	20
1,1-Dichloroethane	ND		25.0	23.8		ug/L		95	60 - 140	2	20
1,2-Dichloroethane	ND		25.0	23.4		ug/L		94	60 - 140	3	20
1,1-Dichloroethene	ND		25.0	20.3		ug/L		81	60 - 140	1	20
cis-1,2-Dichloroethene	ND		25.0	24.0		ug/L		96	60 - 140	1	20
trans-1,2-Dichloroethene	ND		25.0	22.5		ug/L		90	60 - 140	2	20
1,2-Dichloropropane	ND		25.0	24.6		ug/L		98	60 - 140	1	20
cis-1,3-Dichloropropene	ND		25.0	25.3		ug/L		101	60 - 140	2	20
trans-1,3-Dichloropropene	ND		25.0	26.9		ug/L		108	60 - 140	1	20
Ethylbenzene	ND		25.0	22.7		ug/L		91	60 - 140	3	20
Hexachlorobutadiene	ND		25.0	20.3		ug/L		81	60 - 140	2	20
2-Hexanone	ND		125	119		ug/L		95	60 - 140	2	20
Isopropylbenzene	ND		25.0	23.0		ug/L		91	60 - 140	2	20
4-Isopropyltoluene	ND		25.0	22.1		ug/L		88	60 - 140	3	20
Methylene Chloride	ND		25.0	23.4		ug/L		94	40 - 140	0	20
4-Methyl-2-pentanone (MIBK)	ND		125	117		ug/L		93	58 - 130	1	20
Naphthalene	ND		25.0	21.9		ug/L		86	56 - 140	3	20
N-Propylbenzene	ND		25.0	22.4		ug/L		90	60 - 140	1	20
Styrene	ND		25.0	23.6		ug/L		94	60 - 140	2	20
1,1,1,2-Tetrachloroethane	ND		25.0	24.0		ug/L		96	60 - 140	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	22.0		ug/L		88	60 - 140	2	20
Tetrachloroethene	ND		25.0	22.1		ug/L		88	60 - 140	4	20
Toluene	ND		25.0	21.6		ug/L		86	60 - 140	3	20
1,2,3-Trichlorobenzene	ND		25.0	23.2		ug/L		93	60 - 140	1	20
1,2,4-Trichlorobenzene	ND		25.0	23.1		ug/L		92	60 - 140	1	20
1,1,1-Trichloroethane	ND		25.0	22.3		ug/L		89	60 - 140	1	20
1,1,2-Trichloroethane	ND		25.0	25.1		ug/L		100	60 - 140	2	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: 720-68596-7 MSD

Matrix: Water

Analysis Batch: 192951

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
Trichloroethene	ND		25.0	23.1		ug/L		92	60 - 140	2	20
Trichlorofluoromethane	ND		25.0	21.5		ug/L		86	60 - 140	4	20
1,2,3-Trichloropropane	ND		25.0	21.5		ug/L		86	60 - 140	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	20.9		ug/L		84	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		25.0	22.7		ug/L		91	60 - 140	1	20
1,3,5-Trimethylbenzene	ND		25.0	21.9		ug/L		88	60 - 140	1	20
Vinyl acetate	ND		25.0	26.6		ug/L		106	40 - 140	0	20
Vinyl chloride	ND		25.0	22.7		ug/L		91	58 - 140	4	20
m-Xylene & p-Xylene	ND		25.0	22.5		ug/L		90	60 - 140	2	20
o-Xylene	ND		25.0	23.1		ug/L		93	60 - 140	2	20
2,2-Dichloropropane	ND		25.0	21.7		ug/L		87	60 - 140	2	20

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

Lab Sample ID: MB 720-193036/5

Matrix: Water

Analysis Batch: 193036

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/23/15 09:51	1
Acetone	ND		50		ug/L			11/23/15 09:51	1
Benzene	ND		0.50		ug/L			11/23/15 09:51	1
Dichlorobromomethane	ND		0.50		ug/L			11/23/15 09:51	1
Bromobenzene	ND		1.0		ug/L			11/23/15 09:51	1
Chlorobromomethane	ND		1.0		ug/L			11/23/15 09:51	1
Bromoform	ND		1.0		ug/L			11/23/15 09:51	1
Bromomethane	ND		1.0		ug/L			11/23/15 09:51	1
2-Butanone (MEK)	ND		50		ug/L			11/23/15 09:51	1
n-Butylbenzene	ND		1.0		ug/L			11/23/15 09:51	1
sec-Butylbenzene	ND		1.0		ug/L			11/23/15 09:51	1
tert-Butylbenzene	ND		1.0		ug/L			11/23/15 09:51	1
Carbon disulfide	ND		5.0		ug/L			11/23/15 09:51	1
Carbon tetrachloride	ND		0.50		ug/L			11/23/15 09:51	1
Chlorobenzene	ND		0.50		ug/L			11/23/15 09:51	1
Chloroethane	ND		1.0		ug/L			11/23/15 09:51	1
Chloroform	ND		1.0		ug/L			11/23/15 09:51	1
Chloromethane	ND		1.0		ug/L			11/23/15 09:51	1
2-Chlorotoluene	ND		0.50		ug/L			11/23/15 09:51	1
4-Chlorotoluene	ND		0.50		ug/L			11/23/15 09:51	1
Chlorodibromomethane	ND		0.50		ug/L			11/23/15 09:51	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/23/15 09:51	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/23/15 09:51	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/23/15 09:51	1
1,3-Dichloropropane	ND		1.0		ug/L			11/23/15 09:51	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: MB 720-193036/5

Matrix: Water

Analysis Batch: 193036

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		0.50		ug/L			11/23/15 09:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/23/15 09:51	1
Ethylene Dibromide	ND		0.50		ug/L			11/23/15 09:51	1
Dibromomethane	ND		0.50		ug/L			11/23/15 09:51	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/23/15 09:51	1
1,1-Dichloroethane	ND		0.50		ug/L			11/23/15 09:51	1
1,2-Dichloroethane	ND		0.50		ug/L			11/23/15 09:51	1
1,1-Dichloroethene	ND		0.50		ug/L			11/23/15 09:51	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/23/15 09:51	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/23/15 09:51	1
1,2-Dichloropropane	ND		0.50		ug/L			11/23/15 09:51	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/23/15 09:51	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/23/15 09:51	1
Ethylbenzene	ND		0.50		ug/L			11/23/15 09:51	1
Hexachlorobutadiene	ND		1.0		ug/L			11/23/15 09:51	1
2-Hexanone	ND		50		ug/L			11/23/15 09:51	1
Isopropylbenzene	ND		0.50		ug/L			11/23/15 09:51	1
4-Isopropyltoluene	ND		1.0		ug/L			11/23/15 09:51	1
Methylene Chloride	ND		5.0		ug/L			11/23/15 09:51	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/23/15 09:51	1
Naphthalene	ND		1.0		ug/L			11/23/15 09:51	1
N-Propylbenzene	ND		1.0		ug/L			11/23/15 09:51	1
Styrene	ND		0.50		ug/L			11/23/15 09:51	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/23/15 09:51	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/23/15 09:51	1
Tetrachloroethene	ND		0.50		ug/L			11/23/15 09:51	1
Toluene	ND		0.50		ug/L			11/23/15 09:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/23/15 09:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/23/15 09:51	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/23/15 09:51	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/23/15 09:51	1
Trichloroethene	ND		0.50		ug/L			11/23/15 09:51	1
Trichlorofluoromethane	ND		1.0		ug/L			11/23/15 09:51	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/23/15 09:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/23/15 09:51	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/23/15 09:51	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/23/15 09:51	1
Vinyl acetate	ND		10		ug/L			11/23/15 09:51	1
Vinyl chloride	ND		0.50		ug/L			11/23/15 09:51	1
Xylenes, Total	ND		1.0		ug/L			11/23/15 09:51	1
2,2-Dichloropropane	ND		0.50		ug/L			11/23/15 09:51	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			11/23/15 09:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		67 - 130		11/23/15 09:51	1
1,2-Dichloroethane-d4 (Surr)	85		72 - 130		11/23/15 09:51	1
Toluene-d8 (Surr)	84		70 - 130		11/23/15 09:51	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: LCS 720-193036/6

Matrix: Water

Analysis Batch: 193036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	22.8		ug/L		91	62 - 130
Acetone	125	118		ug/L		94	26 - 180
Benzene	25.0	23.1		ug/L		92	79 - 130
Dichlorobromomethane	25.0	22.9		ug/L		91	70 - 130
Bromobenzene	25.0	23.5		ug/L		94	70 - 130
Chlorobromomethane	25.0	22.7		ug/L		91	70 - 130
Bromoform	25.0	24.3		ug/L		97	68 - 136
Bromomethane	25.0	24.6		ug/L		98	43 - 151
2-Butanone (MEK)	125	139		ug/L		111	54 - 130
n-Butylbenzene	25.0	24.0		ug/L		96	70 - 142
sec-Butylbenzene	25.0	23.2		ug/L		93	70 - 134
tert-Butylbenzene	25.0	22.8		ug/L		91	70 - 135
Carbon disulfide	25.0	22.7		ug/L		91	58 - 130
Carbon tetrachloride	25.0	20.9		ug/L		84	70 - 146
Chlorobenzene	25.0	22.3		ug/L		89	70 - 130
Chloroethane	25.0	24.3		ug/L		97	62 - 138
Chloroform	25.0	22.9		ug/L		92	70 - 130
Chloromethane	25.0	25.5		ug/L		102	52 - 175
2-Chlorotoluene	25.0	22.9		ug/L		92	70 - 130
4-Chlorotoluene	25.0	23.0		ug/L		92	70 - 130
Chlorodibromomethane	25.0	22.7		ug/L		91	70 - 145
1,2-Dichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,3-Dichlorobenzene	25.0	22.1		ug/L		88	70 - 130
1,4-Dichlorobenzene	25.0	22.9		ug/L		92	70 - 130
1,3-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
1,1-Dichloropropene	25.0	23.0		ug/L		92	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.9		ug/L		96	70 - 136
Ethylene Dibromide	25.0	22.1		ug/L		88	70 - 130
Dibromomethane	25.0	23.2		ug/L		93	70 - 130
Dichlorodifluoromethane	25.0	36.1 *		ug/L		144	34 - 132
1,1-Dichloroethane	25.0	23.6		ug/L		94	70 - 130
1,2-Dichloroethane	25.0	24.5		ug/L		98	61 - 132
1,1-Dichloroethene	25.0	20.0		ug/L		80	64 - 128
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	68 - 130
1,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	70 - 130
trans-1,3-Dichloropropene	25.0	21.9		ug/L		88	70 - 140
Ethylbenzene	25.0	22.2		ug/L		89	80 - 120
Hexachlorobutadiene	25.0	23.4		ug/L		94	70 - 130
2-Hexanone	125	127		ug/L		102	60 - 164
Isopropylbenzene	25.0	23.3		ug/L		93	70 - 130
4-Isopropyltoluene	25.0	22.9		ug/L		92	70 - 130
Methylene Chloride	25.0	21.7		ug/L		87	70 - 147
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		103	58 - 130
Naphthalene	25.0	26.1		ug/L		104	70 - 130
N-Propylbenzene	25.0	23.3		ug/L		93	70 - 130
Styrene	25.0	23.4		ug/L		94	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: LCS 720-193036/6

Matrix: Water

Analysis Batch: 193036

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	21.8		ug/L		87	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.8		ug/L		103	70 - 130
Tetrachloroethene	25.0	22.8		ug/L		91	70 - 130
Toluene	25.0	22.1		ug/L		88	78 - 120
1,2,3-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	25.0	23.9		ug/L		96	70 - 130
1,1,1-Trichloroethane	25.0	21.8		ug/L		87	70 - 130
1,1,2-Trichloroethane	25.0	21.9		ug/L		88	70 - 130
Trichloroethene	25.0	23.9		ug/L		96	70 - 130
Trichlorofluoromethane	25.0	22.1		ug/L		88	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	22.2		ug/L		89	42 - 162
1,2,4-Trimethylbenzene	25.0	23.0		ug/L		92	70 - 132
1,3,5-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 130
Vinyl acetate	25.0	33.6		ug/L		134	43 - 163
Vinyl chloride	25.0	23.9		ug/L		95	54 - 135
m-Xylene & p-Xylene	25.0	22.4		ug/L		90	70 - 142
o-Xylene	25.0	22.6		ug/L		91	70 - 130
2,2-Dichloropropane	25.0	21.8		ug/L		87	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	95		67 - 130
1,2-Dichloroethane-d4 (Surr)	77		72 - 130
Toluene-d8 (Surr)	87		70 - 130

Lab Sample ID: LCS 720-193036/8

Matrix: Water

Analysis Batch: 193036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	522		ug/L		104	62 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	80		72 - 130
Toluene-d8 (Surr)	86		70 - 130

Lab Sample ID: LCSD 720-193036/7

Matrix: Water

Analysis Batch: 193036

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	22.8		ug/L		91	62 - 130	0	20
Acetone	125	114		ug/L		91	26 - 180	4	30
Benzene	25.0	23.0		ug/L		92	79 - 130	1	20
Dichlorobromomethane	25.0	22.8		ug/L		91	70 - 130	0	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: LCSD 720-193036/7

Matrix: Water

Analysis Batch: 193036

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	23.5		ug/L		94	70 - 130	0	20
Chlorobromomethane	25.0	22.7		ug/L		91	70 - 130	0	20
Bromoform	25.0	24.4		ug/L		98	68 - 136	0	20
Bromomethane	25.0	25.0		ug/L		100	43 - 151	2	20
2-Butanone (MEK)	125	133		ug/L		106	54 - 130	5	20
n-Butylbenzene	25.0	24.1		ug/L		96	70 - 142	0	20
sec-Butylbenzene	25.0	23.3		ug/L		93	70 - 134	0	20
tert-Butylbenzene	25.0	22.9		ug/L		92	70 - 135	0	20
Carbon disulfide	25.0	22.5		ug/L		90	58 - 130	1	20
Carbon tetrachloride	25.0	21.0		ug/L		84	70 - 146	0	20
Chlorobenzene	25.0	22.2		ug/L		89	70 - 130	1	20
Chloroethane	25.0	24.6		ug/L		99	62 - 138	1	20
Chloroform	25.0	22.8		ug/L		91	70 - 130	0	20
Chloromethane	25.0	26.4		ug/L		106	52 - 175	3	20
2-Chlorotoluene	25.0	22.7		ug/L		91	70 - 130	1	20
4-Chlorotoluene	25.0	23.3		ug/L		93	70 - 130	1	20
Chlorodibromomethane	25.0	22.6		ug/L		90	70 - 145	1	20
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130	2	20
1,3-Dichlorobenzene	25.0	22.1		ug/L		88	70 - 130	0	20
1,4-Dichlorobenzene	25.0	22.6		ug/L		90	70 - 130	1	20
1,3-Dichloropropane	25.0	23.7		ug/L		95	70 - 130	2	20
1,1-Dichloropropene	25.0	22.8		ug/L		91	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	23.3		ug/L		93	70 - 136	3	20
Ethylene Dibromide	25.0	21.7		ug/L		87	70 - 130	2	20
Dibromomethane	25.0	22.8		ug/L		91	70 - 130	2	20
Dichlorodifluoromethane	25.0	36.5	*	ug/L		146	34 - 132	1	20
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130	1	20
1,2-Dichloroethane	25.0	24.1		ug/L		97	61 - 132	1	20
1,1-Dichloroethene	25.0	21.5		ug/L		86	64 - 128	8	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	1	20
1,2-Dichloropropane	25.0	25.1		ug/L		100	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	21.8		ug/L		87	70 - 140	0	20
Ethylbenzene	25.0	22.2		ug/L		89	80 - 120	0	20
Hexachlorobutadiene	25.0	23.1		ug/L		92	70 - 130	1	20
2-Hexanone	125	119		ug/L		95	60 - 164	7	20
Isopropylbenzene	25.0	23.1		ug/L		93	70 - 130	0	20
4-Isopropyltoluene	25.0	23.2		ug/L		93	70 - 130	1	20
Methylene Chloride	25.0	21.3		ug/L		85	70 - 147	2	20
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	58 - 130	3	20
Naphthalene	25.0	25.9		ug/L		104	70 - 130	1	20
N-Propylbenzene	25.0	23.4		ug/L		93	70 - 130	0	20
Styrene	25.0	23.3		ug/L		93	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	22.1		ug/L		89	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	25.3		ug/L		101	70 - 130	2	20
Tetrachloroethene	25.0	22.3		ug/L		89	70 - 130	2	20
Toluene	25.0	22.1		ug/L		88	78 - 120	0	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: LCSD 720-193036/7

Matrix: Water

Analysis Batch: 193036

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130	1	20
1,1,1-Trichloroethane	25.0	21.6		ug/L		86	70 - 130	1	20
1,1,2-Trichloroethane	25.0	21.5		ug/L		86	70 - 130	2	20
Trichloroethene	25.0	23.9		ug/L		96	70 - 130	0	20
Trichlorofluoromethane	25.0	22.4		ug/L		90	66 - 132	2	20
1,2,3-Trichloropropane	25.0	23.8		ug/L		95	70 - 130	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.3		ug/L		89	42 - 162	0	20
1,2,4-Trimethylbenzene	25.0	22.7		ug/L		91	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 130	0	20
Vinyl acetate	25.0	34.0		ug/L		136	43 - 163	1	20
Vinyl chloride	25.0	24.8		ug/L		99	54 - 135	4	20
m-Xylene & p-Xylene	25.0	22.3		ug/L		89	70 - 142	0	20
o-Xylene	25.0	22.5		ug/L		90	70 - 130	0	20
2,2-Dichloropropane	25.0	21.4		ug/L		86	70 - 140	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	91		67 - 130
1,2-Dichloroethane-d4 (Surr)	81		72 - 130
Toluene-d8 (Surr)	87		70 - 130

Lab Sample ID: LCSD 720-193036/9

Matrix: Water

Analysis Batch: 193036

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	522		ug/L		104	62 - 120	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	92		67 - 130
1,2-Dichloroethane-d4 (Surr)	82		72 - 130
Toluene-d8 (Surr)	89		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-192386/7

Matrix: Water

Analysis Batch: 192386

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			11/11/15 10:47	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 720-192386/8

Matrix: Water

Analysis Batch: 192386

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	9.77		mg/L		98	90 - 110

Lab Sample ID: 720-68596-3 MS

Matrix: Water

Analysis Batch: 192386

Client Sample ID: MW-6R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND		1000	1010		mg/L		96	80 - 120

Lab Sample ID: 720-68596-3 MSD

Matrix: Water

Analysis Batch: 192386

Client Sample ID: MW-6R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND		1000	1010		mg/L		96	80 - 120	0	20

Lab Sample ID: MB 720-192387/7

Matrix: Water

Analysis Batch: 192387

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			11/11/15 10:47	1
Nitrate as NO3	ND		1.0		mg/L			11/11/15 10:47	1

Lab Sample ID: LCS 720-192387/8

Matrix: Water

Analysis Batch: 192387

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	10.0	10.1		mg/L		101	90 - 110
Nitrate as NO3	10.0	9.53		mg/L		95	90 - 110

Lab Sample ID: 720-68596-3 MS

Matrix: Water

Analysis Batch: 192387

Client Sample ID: MW-6R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	ND		1000	1020		mg/L		102	80 - 120
Nitrate as NO3	270		1000	1200		mg/L		93	80 - 120

Lab Sample ID: 720-68596-3 MSD

Matrix: Water

Analysis Batch: 192387

Client Sample ID: MW-6R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as NO2	ND		1000	1030		mg/L		103	80 - 120	1	20
Nitrate as NO3	270		1000	1200		mg/L		94	80 - 120	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 720-192679/46

Matrix: Water

Analysis Batch: 192679

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			11/10/15 22:59	1

Lab Sample ID: LCS 720-192679/47

Matrix: Water

Analysis Batch: 192679

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	10.1		mg/L		101	90 - 110

Lab Sample ID: LCSD 720-192679/48

Matrix: Water

Analysis Batch: 192679

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
Sulfate	10.0	10.0		mg/L		100	90 - 110	1	20

Lab Sample ID: MB 720-192680/46

Matrix: Water

Analysis Batch: 192680

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			11/10/15 22:59	1
Nitrate as NO3	ND		1.0		mg/L			11/10/15 22:59	1

Lab Sample ID: LCS 720-192680/47

Matrix: Water

Analysis Batch: 192680

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	10.0	10.2		mg/L		102	90 - 110
Nitrate as NO3	10.0	10.1		mg/L		101	90 - 110

Lab Sample ID: LCSD 720-192680/48

Matrix: Water

Analysis Batch: 192680

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
Nitrite as NO2	10.0	10.3		mg/L		103	90 - 110	1	20
Nitrate as NO3	10.0	10.0		mg/L		100	90 - 110	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-192509/1-B

Matrix: Water

Analysis Batch: 192574

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 192509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.50		mg/L		11/12/15 16:38	11/13/15 14:02	1
Manganese	ND		0.020		mg/L		11/12/15 16:38	11/13/15 14:02	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: MB 720-192509/1-B
Matrix: Water
Analysis Batch: 192695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 192509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		1.0		mg/L		11/12/15 16:38	11/16/15 15:39	1

Lab Sample ID: LCS 720-192509/2-B
Matrix: Water
Analysis Batch: 192574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 192509

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

Lab Sample ID: LCS 720-192509/2-B
Matrix: Water
Analysis Batch: 192695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 192509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.1		mg/L		101	85 - 115

Lab Sample ID: LCSD 720-192509/3-B
Matrix: Water
Analysis Batch: 192574

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 192509

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	1.00	1.04		mg/L		104	85 - 115	2	20

Lab Sample ID: LCSD 720-192509/3-B
Matrix: Water
Analysis Batch: 192695

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 192509

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	10.0	10.4		mg/L		104	85 - 115	4	20

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 720-192442/8
Matrix: Water
Analysis Batch: 192442

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			11/11/15 21:06	1

Lab Sample ID: LCS 720-192442/9
Matrix: Water
Analysis Batch: 192442

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	0.966		mg/L		97	80 - 120

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Lab Sample ID: 720-68596-7 MS

Matrix: Water

Analysis Batch: 192442

Client Sample ID: MW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	ND	HF	1.00	1.03		mg/L		103	75 - 125

Lab Sample ID: 720-68596-7 MSD

Matrix: Water

Analysis Batch: 192442

Client Sample ID: MW-10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	ND	HF	1.00	1.04		mg/L		104	75 - 125	1	20

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-312639/1-A

Matrix: Water

Analysis Batch: 312729

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 312639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		11/13/15 23:00	11/15/15 17:09	1

Lab Sample ID: LCS 500-312639/2-A

Matrix: Water

Analysis Batch: 312729

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 312639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.50	2.41		mg/L		96	80 - 120

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 720-192414/7

Matrix: Water

Analysis Batch: 192414

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			11/11/15 15:57	1

Lab Sample ID: LCS 720-192414/8

Matrix: Water

Analysis Batch: 192414

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	0.199		mg/L		99	90 - 110

Lab Sample ID: 720-68596-3 MS

Matrix: Water

Analysis Batch: 192414

Client Sample ID: MW-6R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	1.0		2.00	3.02		mg/L		99	75 - 125

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Method: SM 4500 P E - Orthophosphate (Continued)

Lab Sample ID: 720-68596-3 MSD

Matrix: Water

Analysis Batch: 192414

Client Sample ID: MW-6R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate as P	1.0		2.00	3.00		mg/L	—	98	75 - 125	1	20

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

GC/MS VOA

Analysis Batch: 192922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-1	MW-4R	Total/NA	Water	8260B/CA_LUFT MS	
720-68596-2	MW-5R	Total/NA	Water	8260B/CA_LUFT MS	
720-68596-3	MW-6R	Total/NA	Water	8260B/CA_LUFT MS	
720-68596-4	MW-7R	Total/NA	Water	8260B/CA_LUFT MS	
720-68596-5	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
720-68596-6	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-192922/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-192922/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-192922/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 192924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-1	MW-4R	Total/NA	Water	8260B/CA_LUFT MS	
720-68596-2	MW-5R	Total/NA	Water	8260B/CA_LUFT MS	
720-68596-3	MW-6R	Total/NA	Water	8260B/CA_LUFT MS	
720-68596-4	MW-7R	Total/NA	Water	8260B/CA_LUFT MS	
720-68596-5	MW-8	Total/NA	Water	8260B/CA_LUFT MS	
720-68596-6	MW-9	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-192924/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-192924/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-192924/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 192951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-7	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
720-68596-7 MS	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
720-68596-7 MSD	MW-10	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-192951/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-192951/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-192951/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-192951/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

GC/MS VOA (Continued)

Analysis Batch: 192951 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-192951/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 193036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-1	MW-4R	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-193036/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-193036/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-193036/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-193036/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-193036/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

HPLC/IC

Analysis Batch: 192386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-3	MW-6R	Total/NA	Water	300.0	
720-68596-3 MS	MW-6R	Total/NA	Water	300.0	
720-68596-3 MSD	MW-6R	Total/NA	Water	300.0	
LCS 720-192386/8	Lab Control Sample	Total/NA	Water	300.0	
MB 720-192386/7	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 192387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-3	MW-6R	Total/NA	Water	300.0	
720-68596-3 MS	MW-6R	Total/NA	Water	300.0	
720-68596-3 MSD	MW-6R	Total/NA	Water	300.0	
LCS 720-192387/8	Lab Control Sample	Total/NA	Water	300.0	
MB 720-192387/7	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 192679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-1	MW-4R	Total/NA	Water	300.0	
720-68596-2	MW-5R	Total/NA	Water	300.0	
720-68596-3	MW-6R	Total/NA	Water	300.0	
720-68596-4	MW-7R	Total/NA	Water	300.0	
720-68596-5	MW-8	Total/NA	Water	300.0	
720-68596-6	MW-9	Total/NA	Water	300.0	
720-68596-7	MW-10	Total/NA	Water	300.0	
LCS 720-192679/47	Lab Control Sample	Total/NA	Water	300.0	
LCSD 720-192679/48	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 720-192679/46	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 192680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-1	MW-4R	Total/NA	Water	300.0	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

HPLC/IC (Continued)

Analysis Batch: 192680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-2	MW-5R	Total/NA	Water	300.0	
720-68596-3	MW-6R	Total/NA	Water	300.0	
720-68596-4	MW-7R	Total/NA	Water	300.0	
720-68596-4	MW-7R	Total/NA	Water	300.0	
720-68596-5	MW-8	Total/NA	Water	300.0	
720-68596-6	MW-9	Total/NA	Water	300.0	
720-68596-7	MW-10	Total/NA	Water	300.0	
720-68596-7	MW-10	Total/NA	Water	300.0	
LCS 720-192680/47	Lab Control Sample	Total/NA	Water	300.0	
LCSD 720-192680/48	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 720-192680/46	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 192509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-1	MW-4R	Total/NA	Water	200.7	
720-68596-2	MW-5R	Total/NA	Water	200.7	
720-68596-3	MW-6R	Total/NA	Water	200.7	
720-68596-4	MW-7R	Total/NA	Water	200.7	
720-68596-5	MW-8	Total/NA	Water	200.7	
720-68596-6	MW-9	Total/NA	Water	200.7	
720-68596-7	MW-10	Total/NA	Water	200.7	
LCS 720-192509/2-B	Lab Control Sample	Total/NA	Water	200.7	
LCSD 720-192509/3-B	Lab Control Sample Dup	Total/NA	Water	200.7	
MB 720-192509/1-B	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 192574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-192509/2-B	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	192509
LCSD 720-192509/3-B	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	192509
MB 720-192509/1-B	Method Blank	Total/NA	Water	200.7 Rev 4.4	192509

Analysis Batch: 192618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-1	MW-4R	Total/NA	Water	200.7 Rev 4.4	192509
720-68596-2	MW-5R	Total/NA	Water	200.7 Rev 4.4	192509
720-68596-3	MW-6R	Total/NA	Water	200.7 Rev 4.4	192509
720-68596-4	MW-7R	Total/NA	Water	200.7 Rev 4.4	192509
720-68596-5	MW-8	Total/NA	Water	200.7 Rev 4.4	192509
720-68596-6	MW-9	Total/NA	Water	200.7 Rev 4.4	192509
720-68596-7	MW-10	Total/NA	Water	200.7 Rev 4.4	192509

Analysis Batch: 192695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-1	MW-4R	Total/NA	Water	200.7 Rev 4.4	192509
720-68596-2	MW-5R	Total/NA	Water	200.7 Rev 4.4	192509
720-68596-3	MW-6R	Total/NA	Water	200.7 Rev 4.4	192509
720-68596-4	MW-7R	Total/NA	Water	200.7 Rev 4.4	192509
720-68596-5	MW-8	Total/NA	Water	200.7 Rev 4.4	192509

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Metals (Continued)

Analysis Batch: 192695 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-6	MW-9	Total/NA	Water	200.7 Rev 4.4	192509
720-68596-7	MW-10	Total/NA	Water	200.7 Rev 4.4	192509
LCS 720-192509/2-B	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	192509
LCS 720-192509/3-B	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	192509
MB 720-192509/1-B	Method Blank	Total/NA	Water	200.7 Rev 4.4	192509

General Chemistry

Analysis Batch: 192414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-1	MW-4R	Total/NA	Water	SM 4500 P E	
720-68596-2	MW-5R	Total/NA	Water	SM 4500 P E	
720-68596-3	MW-6R	Total/NA	Water	SM 4500 P E	
720-68596-3	MW-6R	Total/NA	Water	SM 4500 P E	
720-68596-3 MS	MW-6R	Total/NA	Water	SM 4500 P E	
720-68596-3 MSD	MW-6R	Total/NA	Water	SM 4500 P E	
720-68596-4	MW-7R	Total/NA	Water	SM 4500 P E	
720-68596-5	MW-8	Total/NA	Water	SM 4500 P E	
720-68596-6	MW-9	Total/NA	Water	SM 4500 P E	
720-68596-7	MW-10	Total/NA	Water	SM 4500 P E	
LCS 720-192414/8	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 720-192414/7	Method Blank	Total/NA	Water	SM 4500 P E	

Analysis Batch: 192442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-1	MW-4R	Total/NA	Water	SM 3500 Fe B	
720-68596-2	MW-5R	Total/NA	Water	SM 3500 Fe B	
720-68596-3	MW-6R	Total/NA	Water	SM 3500 Fe B	
720-68596-4	MW-7R	Total/NA	Water	SM 3500 Fe B	
720-68596-5	MW-8	Total/NA	Water	SM 3500 Fe B	
720-68596-6	MW-9	Total/NA	Water	SM 3500 Fe B	
720-68596-7	MW-10	Total/NA	Water	SM 3500 Fe B	
720-68596-7 MS	MW-10	Total/NA	Water	SM 3500 Fe B	
720-68596-7 MSD	MW-10	Total/NA	Water	SM 3500 Fe B	
LCS 720-192442/9	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	
MB 720-192442/8	Method Blank	Total/NA	Water	SM 3500 Fe B	

Analysis Batch: 192761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-1	MW-4R	Total/NA	Water	SM 3500	
720-68596-2	MW-5R	Total/NA	Water	SM 3500	
720-68596-3	MW-6R	Total/NA	Water	SM 3500	
720-68596-4	MW-7R	Total/NA	Water	SM 3500	
720-68596-5	MW-8	Total/NA	Water	SM 3500	
720-68596-6	MW-9	Total/NA	Water	SM 3500	
720-68596-7	MW-10	Total/NA	Water	SM 3500	

Prep Batch: 312639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-1	MW-4R	Total/NA	Water	SM 4500 NH3 B	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

General Chemistry (Continued)

Prep Batch: 312639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-2	MW-5R	Total/NA	Water	SM 4500 NH3 B	
720-68596-3	MW-6R	Total/NA	Water	SM 4500 NH3 B	
720-68596-4	MW-7R	Total/NA	Water	SM 4500 NH3 B	
720-68596-5	MW-8	Total/NA	Water	SM 4500 NH3 B	
720-68596-6	MW-9	Total/NA	Water	SM 4500 NH3 B	
720-68596-7	MW-10	Total/NA	Water	SM 4500 NH3 B	
LCS 500-312639/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
MB 500-312639/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 312729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68596-1	MW-4R	Total/NA	Water	SM 4500 NH3 G	312639
720-68596-2	MW-5R	Total/NA	Water	SM 4500 NH3 G	312639
720-68596-3	MW-6R	Total/NA	Water	SM 4500 NH3 G	312639
720-68596-4	MW-7R	Total/NA	Water	SM 4500 NH3 G	312639
720-68596-5	MW-8	Total/NA	Water	SM 4500 NH3 G	312639
720-68596-6	MW-9	Total/NA	Water	SM 4500 NH3 G	312639
720-68596-7	MW-10	Total/NA	Water	SM 4500 NH3 G	312639
LCS 500-312639/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	312639
MB 500-312639/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	312639

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-4R

Date Collected: 11/10/15 10:05

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	192924	11/20/15 03:45	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		10	192922	11/20/15 03:04	YB1	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		20	193036	11/23/15 14:27	PRD	TAL PLS
Total/NA	Analysis	300.0		1	192679	11/11/15 02:41	EYT	TAL PLS
Total/NA	Analysis	300.0		1	192680	11/11/15 02:41	EYT	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192618	11/13/15 23:22	CAM	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192695	11/16/15 17:30	SLK	TAL PLS
Total/NA	Analysis	SM 3500		1	192761	11/17/15 15:21	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		50	192442	11/11/15 21:06	EYT	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			312639	11/13/15 23:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		4	312729	11/15/15 18:03	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	192414	11/11/15 15:57	EYT	TAL PLS

Client Sample ID: MW-5R

Date Collected: 11/10/15 11:50

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-2

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	192924	11/20/15 04:14	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	192922	11/20/15 03:32	YB1	TAL PLS
Total/NA	Analysis	300.0		1	192680	11/11/15 03:15	EYT	TAL PLS
Total/NA	Analysis	300.0		10	192679	11/11/15 03:32	EYT	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192618	11/13/15 23:27	CAM	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192695	11/16/15 17:45	SLK	TAL PLS
Total/NA	Analysis	SM 3500		1	192761	11/17/15 15:21	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	192442	11/11/15 21:06	EYT	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			312639	11/13/15 23:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	312729	11/15/15 18:06	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	192414	11/11/15 15:57	EYT	TAL PLS

Client Sample ID: MW-6R

Date Collected: 11/10/15 12:35

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-3

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	192924	11/20/15 04:42	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		5	192922	11/20/15 04:02	YB1	TAL PLS

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-6R

Date Collected: 11/10/15 12:35

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	192680	11/11/15 04:24	EYT	TAL PLS
Total/NA	Analysis	300.0		10	192679	11/11/15 04:41	EYT	TAL PLS
Total/NA	Analysis	300.0		100	192386	11/11/15 11:39	MJK	TAL PLS
Total/NA	Analysis	300.0		100	192387	11/11/15 11:39	MJK	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192618	11/13/15 23:32	CAM	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192695	11/16/15 17:50	SLK	TAL PLS
Total/NA	Analysis	SM 3500		1	192761	11/17/15 15:21	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	192442	11/11/15 21:06	EYT	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			312639	11/13/15 23:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	312729	11/15/15 18:09	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	192414	11/11/15 15:57	EYT	TAL PLS
Total/NA	Analysis	SM 4500 P E		10	192414	11/11/15 15:57	EYT	TAL PLS

Client Sample ID: MW-7R

Date Collected: 11/10/15 13:05

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-4

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	192924	11/20/15 05:10	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		500	192922	11/20/15 04:31	YB1	TAL PLS
Total/NA	Analysis	300.0		1	192680	11/11/15 04:58	EYT	TAL PLS
Total/NA	Analysis	300.0		10	192679	11/11/15 05:15	EYT	TAL PLS
Total/NA	Analysis	300.0		10	192680	11/11/15 05:15	EYT	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192618	11/13/15 23:37	CAM	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192695	11/16/15 17:55	SLK	TAL PLS
Total/NA	Analysis	SM 3500		1	192761	11/17/15 15:21	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	192442	11/11/15 21:06	EYT	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			312639	11/13/15 23:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	312729	11/15/15 18:17	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	192414	11/11/15 15:57	EYT	TAL PLS

Client Sample ID: MW-8

Date Collected: 11/10/15 14:28

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-5

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	192924	11/20/15 05:38	PRD	TAL PLS

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-8

Date Collected: 11/10/15 14:28

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-5

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	192922	11/20/15 05:00	YB1	TAL PLS
Total/NA	Analysis	300.0		1	192679	11/11/15 05:32	EYT	TAL PLS
Total/NA	Analysis	300.0		1	192680	11/11/15 05:32	EYT	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192618	11/13/15 23:42	CAM	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192695	11/16/15 18:00	SLK	TAL PLS
Total/NA	Analysis	SM 3500		1	192761	11/17/15 15:21	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		10	192442	11/11/15 21:06	EYT	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			312639	11/13/15 23:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	312729	11/15/15 18:20	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	192414	11/11/15 15:57	EYT	TAL PLS

Client Sample ID: MW-9

Date Collected: 11/10/15 14:55

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-6

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	192924	11/20/15 06:07	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	192922	11/20/15 05:29	YB1	TAL PLS
Total/NA	Analysis	300.0		1	192680	11/11/15 06:06	EYT	TAL PLS
Total/NA	Analysis	300.0		10	192679	11/11/15 06:23	EYT	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192618	11/13/15 23:47	CAM	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192695	11/16/15 18:05	SLK	TAL PLS
Total/NA	Analysis	SM 3500		1	192761	11/17/15 15:21	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	192442	11/11/15 21:06	EYT	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			312639	11/13/15 23:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	312729	11/15/15 18:23	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	192414	11/11/15 15:57	EYT	TAL PLS

Client Sample ID: MW-10

Date Collected: 11/10/15 15:28

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-7

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	192951	11/20/15 12:15	PRD	TAL PLS
Total/NA	Analysis	300.0		1	192680	11/11/15 06:40	EYT	TAL PLS
Total/NA	Analysis	300.0		10	192679	11/11/15 06:57	EYT	TAL PLS
Total/NA	Analysis	300.0		10	192680	11/11/15 06:57	EYT	TAL PLS

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Client Sample ID: MW-10

Date Collected: 11/10/15 15:28

Date Received: 11/10/15 17:01

Lab Sample ID: 720-68596-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192618	11/13/15 23:52	CAM	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192695	11/16/15 18:11	SLK	TAL PLS
Total/NA	Analysis	SM 3500		1	192761	11/17/15 15:21	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	192442	11/11/15 21:06	EYT	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			312639	11/13/15 23:00	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	312729	11/15/15 18:26	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	192414	11/11/15 15:57	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: 720-68596-1

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	01-31-16 *
Kentucky (UST)	State Program	4	66	04-30-16
Kentucky (WW)	State Program	4	KY90023	12-31-15 *
Massachusetts	State Program	1	M-IL035	06-30-16
Mississippi	State Program	4	N/A	04-30-16
New York	NELAP	2	IL00035	04-01-16
North Carolina (WW/SW)	State Program	4	291	12-31-15 *
North Dakota	State Program	8	R-194	04-30-16
Oklahoma	State Program	6	8908	08-31-16
South Carolina	State Program	4	77001	04-30-16
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-16
Wyoming	State Program	8	8TMS-Q	04-30-16

* Certification renewal pending - certification considered valid.

TestAmerica Pleasanton

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

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

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

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68596-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-68596-1	MW-4R	Water	11/10/15 10:05	11/10/15 17:01
720-68596-2	MW-5R	Water	11/10/15 11:50	11/10/15 17:01
720-68596-3	MW-6R	Water	11/10/15 12:35	11/10/15 17:01
720-68596-4	MW-7R	Water	11/10/15 13:05	11/10/15 17:01
720-68596-5	MW-8	Water	11/10/15 14:28	11/10/15 17:01
720-68596-6	MW-9	Water	11/10/15 14:55	11/10/15 17:01
720-68596-7	MW-10	Water	11/10/15 15:28	11/10/15 17:01

TESTAMERICA Pleasanton Chain of Custody

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

Reference #:

164986

Date 10 Nov '15 Page 1 of 1

11/24/2015

Analysis Request

Company: Ninjo + Moore

Address: 1957 Webster St SE 400, Oakland

Email: psims@hinyoandmiller.com

Billed To:	Sampled By:
P. Sims	E. Dryksen

Attn: P. Sims	Phone: 510-343-3000
---------------	---------------------

Sample ID	Date	Time	Mat	Prese
			fix	

MM-42	10 Nov	1005	
-------	--------	------	--

MW-5R	1150
	1025

$nm = 0.6$	1.2%
$nm = 20$	1305

1110 - JE	---
mw - 8	1428

55	6-mm
----	------

825	↑	01 - mm
-----	---	---------

[illegible][illegible]

Project Info. Sample Receipt

Project Name/ #:	# of Containers:
CNN	

408916004	Head Space:
-----------	-------------

PO#:	Temp:
------	-------

Credit Card		127C
-------------	--	------

Y/N:	If yes, please call with payment information A	Other

Day	1	2	3	4	5	10
Day						

[illegible]

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

[illegible]

See Terms and Conditions on reverse

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Page 62 of 64

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68596-1

Login Number: 68596

List Number: 1

Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68596-1

Login Number: 68596

List Number: 2

Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

List Creation: 11/12/15 02:32 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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 $<6\text{mm}$ (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: 720-68619-1

Client Project/Site: Chun

For:

Ninyo & Moore

1956 Webster Street

Suite 400

Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:

11/23/2015 4:08:41 PM

Afsaneh Salimpour, Senior Project Manager

afsaneh.salimpour@testamericainc.com

Designee for

Dimple Sharma, Senior Project Manager

(925)484-1919

dimple.sharma@testamericainc.com

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

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

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Review your project
results through

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www.testamericainc.com

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Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

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

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Job ID: 720-68619-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-68619-1

Comments

No additional comments.

Receipt

The samples were received on 11/11/2015 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5° C.

GC/MS VOA

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

Metals

quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

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

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-11R

Lab Sample ID: 720-68619-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzene	1700		50		ug/L	100			8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1000		50		ug/L	100			8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	83		50		ug/L	100			8260B/CA_LUFT MS	Total/NA
Naphthalene	420		100		ug/L	100			8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	220		100		ug/L	100			8260B/CA_LUFT MS	Total/NA
Toluene	1500		50		ug/L	100			8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	1900		50		ug/L	100			8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	460		50		ug/L	100			8260B/CA_LUFT MS	Total/NA
Xylenes, Total	6300		100		ug/L	100			8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO)	27000		5000		ug/L	100			8260B/CA_LUFT MS	Total/NA
-C5-C12										
Sulfate	6.6		1.0		mg/L	1			300.0	Total/NA
Iron	2.9		0.50		mg/L	1			200.7 Rev 4.4	Total/NA
Manganese	1.8		0.020		mg/L	1			200.7 Rev 4.4	Total/NA
Ferric Iron	0.40		0.10		mg/L	1			SM 3500	Total/NA
Ferrous Iron	2.5	HF	0.10		mg/L	1			SM 3500 Fe B	Total/NA
Orthophosphate as P	0.11		0.020		mg/L	1			SM 4500 P E	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 720-68619-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl tert-butyl ether	4.0		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Benzene	8.7		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	2.8		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Ethylbenzene	8.3		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	1.1		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Naphthalene	4.2		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
Toluene	21		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	4.7		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	0.99		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Xylenes, Total	58		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO)	270		50		ug/L	1			8260B/CA_LUFT MS	Total/NA
-C5-C12										
Sulfate	9.8		1.0		mg/L	1			300.0	Total/NA
Iron	1.0		0.50		mg/L	1			200.7 Rev 4.4	Total/NA
Manganese	1.4		0.020		mg/L	1			200.7 Rev 4.4	Total/NA
Ferrous Iron	0.91	HF	0.10		mg/L	1			SM 3500 Fe B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-12 (Continued)

Lab Sample ID: 720-68619-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Orthophosphate as P	0.033		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 720-68619-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	7.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	2.9		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Nitrite as NO2	6.0		1.0		mg/L	1		300.0	Total/NA
Sulfate	24		10		mg/L	10		300.0	Total/NA
Nitrate as NO3	130		10		mg/L	10		300.0	Total/NA
Iron	2.7		0.50		mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	1.2		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	21		1.0		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	2.7		0.10		mg/L	1		SM 3500	Total/NA
Orthophosphate as P	0.086		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 720-68619-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	920		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	280		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Naphthalene	140		50		ug/L	50		8260B/CA_LUFT MS	Total/NA
Toluene	25		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	320		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	28		25		ug/L	50		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	360		50		ug/L	50		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO)	3300		2500		ug/L	50		8260B/CA_LUFT MS	Total/NA
-C5-C12 Sulfate	9.7		1.0		mg/L	1		300.0	Total/NA
Iron	7.0		0.50		mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	1.6		0.020		mg/L	1		200.7 Rev 4.4	Total/NA
Ferric Iron	3.6		0.10		mg/L	1		SM 3500	Total/NA
Ferrous Iron	3.4	HF	0.10		mg/L	1		SM 3500 Fe B	Total/NA
Orthophosphate as P	0.035		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 720-68619-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	5.1		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	1.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Nitrite as NO2	1.5		1.0		mg/L	1		300.0	Total/NA
Sulfate	57		10		mg/L	10		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-15 (Continued)

Lab Sample ID: 720-68619-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Nitrate as NO3	25		10		mg/L	10			300.0	Total/NA
Iron	10		0.50		mg/L	1			200.7 Rev 4.4	Total/NA
Manganese	0.40		0.020		mg/L	1			200.7 Rev 4.4	Total/NA
Potassium	1.3		1.0		mg/L	1			200.7 Rev 4.4	Total/NA
Ferric Iron	9.5		0.10		mg/L	1			SM 3500	Total/NA
Ferrous Iron	0.48	HF	0.10		mg/L	1			SM 3500 Fe B	Total/NA
Orthophosphate as P	0.059		0.020		mg/L	1			SM 4500 P E	Total/NA

Client Sample ID: MW-16

Lab Sample ID: 720-68619-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.1		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	0.74		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Sulfate	8.0		1.0		mg/L	1			300.0	Total/NA
Nitrate as NO3	2.0		1.0		mg/L	1			300.0	Total/NA
Iron	0.74		0.50		mg/L	1			200.7 Rev 4.4	Total/NA
Manganese	0.22		0.020		mg/L	1			200.7 Rev 4.4	Total/NA
Ferric Iron	0.74		0.10		mg/L	1			SM 3500	Total/NA
Orthophosphate as P	0.039		0.020		mg/L	1			SM 4500 P E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-11R

Date Collected: 11/11/15 13:05

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		50		ug/L			11/21/15 14:22	100
Acetone	ND		5000		ug/L			11/21/15 14:22	100
Benzene	1700		50		ug/L			11/21/15 14:22	100
Dichlorobromomethane	ND		50		ug/L			11/21/15 14:22	100
Bromobenzene	ND		100		ug/L			11/21/15 14:22	100
Chlorobromomethane	ND		100		ug/L			11/21/15 14:22	100
Bromoform	ND		100		ug/L			11/21/15 14:22	100
Bromomethane	ND		100		ug/L			11/21/15 14:22	100
2-Butanone (MEK)	ND		5000		ug/L			11/21/15 14:22	100
n-Butylbenzene	ND		100		ug/L			11/21/15 14:22	100
sec-Butylbenzene	ND		100		ug/L			11/21/15 14:22	100
tert-Butylbenzene	ND		100		ug/L			11/21/15 14:22	100
Carbon disulfide	ND		500		ug/L			11/21/15 14:22	100
Carbon tetrachloride	ND		50		ug/L			11/21/15 14:22	100
Chlorobenzene	ND		50		ug/L			11/21/15 14:22	100
Chloroethane	ND		100		ug/L			11/21/15 14:22	100
Chloroform	ND		100		ug/L			11/21/15 14:22	100
Chloromethane	ND		100		ug/L			11/21/15 14:22	100
2-Chlorotoluene	ND		50		ug/L			11/21/15 14:22	100
4-Chlorotoluene	ND		50		ug/L			11/21/15 14:22	100
Chlorodibromomethane	ND		50		ug/L			11/21/15 14:22	100
1,2-Dichlorobenzene	ND		50		ug/L			11/21/15 14:22	100
1,3-Dichlorobenzene	ND		50		ug/L			11/21/15 14:22	100
1,4-Dichlorobenzene	ND		50		ug/L			11/21/15 14:22	100
1,3-Dichloropropane	ND		100		ug/L			11/21/15 14:22	100
1,1-Dichloropropene	ND		50		ug/L			11/21/15 14:22	100
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			11/21/15 14:22	100
Ethylene Dibromide	ND		50		ug/L			11/21/15 14:22	100
Dibromomethane	ND		50		ug/L			11/21/15 14:22	100
Dichlorodifluoromethane	ND		50		ug/L			11/21/15 14:22	100
1,1-Dichloroethane	ND		50		ug/L			11/21/15 14:22	100
1,2-Dichloroethane	ND		50		ug/L			11/21/15 14:22	100
1,1-Dichloroethene	ND		50		ug/L			11/21/15 14:22	100
cis-1,2-Dichloroethene	ND		50		ug/L			11/21/15 14:22	100
trans-1,2-Dichloroethene	ND		50		ug/L			11/21/15 14:22	100
1,2-Dichloropropane	ND		50		ug/L			11/21/15 14:22	100
cis-1,3-Dichloropropene	ND		50		ug/L			11/21/15 14:22	100
trans-1,3-Dichloropropene	ND		50		ug/L			11/21/15 14:22	100
Ethylbenzene	1000		50		ug/L			11/21/15 14:22	100
Hexachlorobutadiene	ND		100		ug/L			11/21/15 14:22	100
2-Hexanone	ND		5000		ug/L			11/21/15 14:22	100
Isopropylbenzene	83		50		ug/L			11/21/15 14:22	100
4-Isopropyltoluene	ND		100		ug/L			11/21/15 14:22	100
Methylene Chloride	ND		500		ug/L			11/21/15 14:22	100
4-Methyl-2-pentanone (MIBK)	ND		5000		ug/L			11/21/15 14:22	100
Naphthalene	420		100		ug/L			11/21/15 14:22	100
N-Propylbenzene	220		100		ug/L			11/21/15 14:22	100
Styrene	ND		50		ug/L			11/21/15 14:22	100
1,1,1,2-Tetrachloroethane	ND		50		ug/L			11/21/15 14:22	100

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-11R

Lab Sample ID: 720-68619-1

Date Collected: 11/11/15 13:05

Matrix: Water

Date Received: 11/11/15 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		50		ug/L			11/21/15 14:22	100
Tetrachloroethene	ND		50		ug/L			11/21/15 14:22	100
Toluene	1500		50		ug/L			11/21/15 14:22	100
1,2,3-Trichlorobenzene	ND		100		ug/L			11/21/15 14:22	100
1,2,4-Trichlorobenzene	ND		100		ug/L			11/21/15 14:22	100
1,1,1-Trichloroethane	ND		50		ug/L			11/21/15 14:22	100
1,1,2-Trichloroethane	ND		50		ug/L			11/21/15 14:22	100
Trichloroethene	ND		50		ug/L			11/21/15 14:22	100
Trichlorofluoromethane	ND		100		ug/L			11/21/15 14:22	100
1,2,3-Trichloropropane	ND		50		ug/L			11/21/15 14:22	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50		ug/L			11/21/15 14:22	100
1,2,4-Trimethylbenzene	1900		50		ug/L			11/21/15 14:22	100
1,3,5-Trimethylbenzene	460		50		ug/L			11/21/15 14:22	100
Vinyl acetate	ND		1000		ug/L			11/21/15 14:22	100
Vinyl chloride	ND		50		ug/L			11/21/15 14:22	100
Xylenes, Total	6300		100		ug/L			11/21/15 14:22	100
2,2-Dichloropropane	ND		50		ug/L			11/21/15 14:22	100
Gasoline Range Organics (GRO)	27000		5000		ug/L			11/21/15 14:22	100
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130					11/21/15 14:22	100
1,2-Dichloroethane-d4 (Surr)	101		72 - 130					11/21/15 14:22	100
Toluene-d8 (Surr)	98		70 - 130					11/21/15 14:22	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			11/11/15 18:28	1
Sulfate	6.6		1.0		mg/L			11/11/15 18:28	1
Nitrate as NO3	ND		1.0		mg/L			11/11/15 18:28	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.9		0.50		mg/L		11/12/15 16:38	11/14/15 00:17	1
Manganese	1.8		0.020		mg/L		11/12/15 16:38	11/14/15 00:17	1
Potassium	ND		1.0		mg/L		11/12/15 16:38	11/14/15 00:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	0.40		0.10		mg/L			11/17/15 15:21	1
Ferrous Iron	2.5	HF	0.10		mg/L			11/11/15 22:25	1
Ammonia	ND		0.20		mg/L		11/16/15 16:40	11/16/15 19:58	1
Orthophosphate as P	0.11		0.020		mg/L			11/11/15 18:20	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-12
Date Collected: 11/11/15 12:22
Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-2
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	4.0		0.50		ug/L			11/21/15 15:50	1
Acetone	ND		50		ug/L			11/21/15 15:50	1
Benzene	8.7		0.50		ug/L			11/21/15 15:50	1
Dichlorobromomethane	ND		0.50		ug/L			11/21/15 15:50	1
Bromobenzene	ND		1.0		ug/L			11/21/15 15:50	1
Chlorobromomethane	ND		1.0		ug/L			11/21/15 15:50	1
Bromoform	ND		1.0		ug/L			11/21/15 15:50	1
Bromomethane	ND		1.0		ug/L			11/21/15 15:50	1
2-Butanone (MEK)	ND		50		ug/L			11/21/15 15:50	1
n-Butylbenzene	ND		1.0		ug/L			11/21/15 15:50	1
sec-Butylbenzene	ND		1.0		ug/L			11/21/15 15:50	1
tert-Butylbenzene	ND		1.0		ug/L			11/21/15 15:50	1
Carbon disulfide	ND		5.0		ug/L			11/21/15 15:50	1
Carbon tetrachloride	ND		0.50		ug/L			11/21/15 15:50	1
Chlorobenzene	ND		0.50		ug/L			11/21/15 15:50	1
Chloroethane	ND		1.0		ug/L			11/21/15 15:50	1
Chloroform	ND		1.0		ug/L			11/21/15 15:50	1
Chloromethane	ND		1.0		ug/L			11/21/15 15:50	1
2-Chlorotoluene	ND		0.50		ug/L			11/21/15 15:50	1
4-Chlorotoluene	ND		0.50		ug/L			11/21/15 15:50	1
Chlorodibromomethane	ND		0.50		ug/L			11/21/15 15:50	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/21/15 15:50	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/21/15 15:50	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/21/15 15:50	1
1,3-Dichloropropane	ND		1.0		ug/L			11/21/15 15:50	1
1,1-Dichloropropene	ND		0.50		ug/L			11/21/15 15:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/21/15 15:50	1
Ethylene Dibromide	ND		0.50		ug/L			11/21/15 15:50	1
Dibromomethane	ND		0.50		ug/L			11/21/15 15:50	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/21/15 15:50	1
1,1-Dichloroethane	ND		0.50		ug/L			11/21/15 15:50	1
1,2-Dichloroethane	2.8		0.50		ug/L			11/21/15 15:50	1
1,1-Dichloroethene	ND		0.50		ug/L			11/21/15 15:50	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/21/15 15:50	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/21/15 15:50	1
1,2-Dichloropropane	ND		0.50		ug/L			11/21/15 15:50	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/21/15 15:50	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/21/15 15:50	1
Ethylbenzene	8.3		0.50		ug/L			11/21/15 15:50	1
Hexachlorobutadiene	ND		1.0		ug/L			11/21/15 15:50	1
2-Hexanone	ND		50		ug/L			11/21/15 15:50	1
Isopropylbenzene	1.1		0.50		ug/L			11/21/15 15:50	1
4-Isopropyltoluene	ND		1.0		ug/L			11/21/15 15:50	1
Methylene Chloride	ND		5.0		ug/L			11/21/15 15:50	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/21/15 15:50	1
Naphthalene	4.2		1.0		ug/L			11/21/15 15:50	1
N-Propylbenzene	ND		1.0		ug/L			11/21/15 15:50	1
Styrene	ND		0.50		ug/L			11/21/15 15:50	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/21/15 15:50	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-12

Date Collected: 11/11/15 12:22

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-2

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			11/21/15 15:50	1
Tetrachloroethene	ND		0.50		ug/L			11/21/15 15:50	1
Toluene	21		0.50		ug/L			11/21/15 15:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/21/15 15:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/21/15 15:50	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/21/15 15:50	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/21/15 15:50	1
Trichloroethene	ND		0.50		ug/L			11/21/15 15:50	1
Trichlorofluoromethane	ND		1.0		ug/L			11/21/15 15:50	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/21/15 15:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/21/15 15:50	1
1,2,4-Trimethylbenzene	4.7		0.50		ug/L			11/21/15 15:50	1
1,3,5-Trimethylbenzene	0.99		0.50		ug/L			11/21/15 15:50	1
Vinyl acetate	ND		10		ug/L			11/21/15 15:50	1
Vinyl chloride	ND		0.50		ug/L			11/21/15 15:50	1
Xylenes, Total	58		1.0		ug/L			11/21/15 15:50	1
2,2-Dichloropropane	ND		0.50		ug/L			11/21/15 15:50	1
Gasoline Range Organics (GRO)	270		50		ug/L			11/21/15 15:50	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		67 - 130					11/21/15 15:50	1
1,2-Dichloroethane-d4 (Surr)	105		72 - 130					11/21/15 15:50	1
Toluene-d8 (Surr)	98		70 - 130					11/21/15 15:50	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			11/11/15 19:02	1
Sulfate	9.8		1.0		mg/L			11/11/15 19:02	1
Nitrate as NO3	ND		1.0		mg/L			11/11/15 19:02	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.0		0.50		mg/L		11/12/15 16:38	11/14/15 00:22	1
Manganese	1.4		0.020		mg/L		11/12/15 16:38	11/14/15 00:22	1
Potassium	ND		1.0		mg/L		11/12/15 16:38	11/14/15 00:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	ND		0.10		mg/L			11/17/15 15:21	1
Ferrous Iron	0.91	HF	0.10		mg/L			11/11/15 22:25	1
Ammonia	ND		0.20		mg/L		11/16/15 16:40	11/16/15 20:01	1
Orthophosphate as P	0.033		0.020		mg/L			11/11/15 18:20	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-13
Date Collected: 11/11/15 10:42
Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-3
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	7.2		0.50		ug/L			11/21/15 16:20	1
Acetone	ND		50		ug/L			11/21/15 16:20	1
Benzene	ND		0.50		ug/L			11/21/15 16:20	1
Dichlorobromomethane	ND		0.50		ug/L			11/21/15 16:20	1
Bromobenzene	ND		1.0		ug/L			11/21/15 16:20	1
Chlorobromomethane	ND		1.0		ug/L			11/21/15 16:20	1
Bromoform	ND		1.0		ug/L			11/21/15 16:20	1
Bromomethane	ND		1.0		ug/L			11/21/15 16:20	1
2-Butanone (MEK)	ND		50		ug/L			11/21/15 16:20	1
n-Butylbenzene	ND		1.0		ug/L			11/21/15 16:20	1
sec-Butylbenzene	ND		1.0		ug/L			11/21/15 16:20	1
tert-Butylbenzene	ND		1.0		ug/L			11/21/15 16:20	1
Carbon disulfide	ND		5.0		ug/L			11/21/15 16:20	1
Carbon tetrachloride	ND		0.50		ug/L			11/21/15 16:20	1
Chlorobenzene	ND		0.50		ug/L			11/21/15 16:20	1
Chloroethane	ND		1.0		ug/L			11/21/15 16:20	1
Chloroform	ND		1.0		ug/L			11/21/15 16:20	1
Chloromethane	ND		1.0		ug/L			11/21/15 16:20	1
2-Chlorotoluene	ND		0.50		ug/L			11/21/15 16:20	1
4-Chlorotoluene	ND		0.50		ug/L			11/21/15 16:20	1
Chlorodibromomethane	ND		0.50		ug/L			11/21/15 16:20	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/21/15 16:20	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/21/15 16:20	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/21/15 16:20	1
1,3-Dichloropropane	ND		1.0		ug/L			11/21/15 16:20	1
1,1-Dichloropropane	ND		0.50		ug/L			11/21/15 16:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/21/15 16:20	1
Ethylene Dibromide	ND		0.50		ug/L			11/21/15 16:20	1
Dibromomethane	ND		0.50		ug/L			11/21/15 16:20	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/21/15 16:20	1
1,1-Dichloroethane	ND		0.50		ug/L			11/21/15 16:20	1
1,2-Dichloroethane	2.9		0.50		ug/L			11/21/15 16:20	1
1,1-Dichloroethene	ND		0.50		ug/L			11/21/15 16:20	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/21/15 16:20	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/21/15 16:20	1
1,2-Dichloropropane	ND		0.50		ug/L			11/21/15 16:20	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/21/15 16:20	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/21/15 16:20	1
Ethylbenzene	ND		0.50		ug/L			11/21/15 16:20	1
Hexachlorobutadiene	ND		1.0		ug/L			11/21/15 16:20	1
2-Hexanone	ND		50		ug/L			11/21/15 16:20	1
Isopropylbenzene	ND		0.50		ug/L			11/21/15 16:20	1
4-Isopropyltoluene	ND		1.0		ug/L			11/21/15 16:20	1
Methylene Chloride	ND		5.0		ug/L			11/21/15 16:20	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/21/15 16:20	1
Naphthalene	ND		1.0		ug/L			11/21/15 16:20	1
N-Propylbenzene	ND		1.0		ug/L			11/21/15 16:20	1
Styrene	ND		0.50		ug/L			11/21/15 16:20	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/21/15 16:20	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-13

Date Collected: 11/11/15 10:42

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/21/15 16:20	1
Tetrachloroethene	ND		0.50		ug/L			11/21/15 16:20	1
Toluene	ND		0.50		ug/L			11/21/15 16:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/21/15 16:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/21/15 16:20	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/21/15 16:20	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/21/15 16:20	1
Trichloroethene	ND		0.50		ug/L			11/21/15 16:20	1
Trichlorofluoromethane	ND		1.0		ug/L			11/21/15 16:20	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/21/15 16:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/21/15 16:20	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/21/15 16:20	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/21/15 16:20	1
Vinyl acetate	ND		10		ug/L			11/21/15 16:20	1
Vinyl chloride	ND		0.50		ug/L			11/21/15 16:20	1
Xylenes, Total	ND		1.0		ug/L			11/21/15 16:20	1
2,2-Dichloropropane	ND		0.50		ug/L			11/21/15 16:20	1
Gasoline Range Organics (GRO)	ND		50		ug/L			11/21/15 16:20	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		67 - 130					11/21/15 16:20	1
1,2-Dichloroethane-d4 (Surr)	102		72 - 130					11/21/15 16:20	1
Toluene-d8 (Surr)	97		70 - 130					11/21/15 16:20	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as NO2	6.0		1.0		mg/L			11/11/15 19:36	1
Sulfate	24		10		mg/L			11/11/15 19:54	10
Nitrate as NO3	130		10		mg/L			11/11/15 19:54	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.7		0.50		mg/L		11/12/15 16:38	11/14/15 00:27	1
Manganese	1.2		0.020		mg/L		11/12/15 16:38	11/14/15 00:27	1
Potassium	21		1.0		mg/L		11/12/15 16:38	11/14/15 00:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	2.7		0.10		mg/L			11/17/15 15:21	1
Ferrous Iron	ND	HF	0.10		mg/L			11/11/15 22:25	1
Ammonia	ND		0.20		mg/L		11/16/15 16:40	11/16/15 20:04	1
Orthophosphate as P	0.086		0.020		mg/L			11/11/15 18:20	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-14
Date Collected: 11/11/15 11:10
Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-4
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		25		ug/L			11/21/15 16:49	50
Acetone	ND		2500		ug/L			11/21/15 16:49	50
Benzene	920		25		ug/L			11/21/15 16:49	50
Dichlorobromomethane	ND		25		ug/L			11/21/15 16:49	50
Bromobenzene	ND		50		ug/L			11/21/15 16:49	50
Chlorobromomethane	ND		50		ug/L			11/21/15 16:49	50
Bromoform	ND		50		ug/L			11/21/15 16:49	50
Bromomethane	ND		50		ug/L			11/21/15 16:49	50
2-Butanone (MEK)	ND		2500		ug/L			11/21/15 16:49	50
n-Butylbenzene	ND		50		ug/L			11/21/15 16:49	50
sec-Butylbenzene	ND		50		ug/L			11/21/15 16:49	50
tert-Butylbenzene	ND		50		ug/L			11/21/15 16:49	50
Carbon disulfide	ND		250		ug/L			11/21/15 16:49	50
Carbon tetrachloride	ND		25		ug/L			11/21/15 16:49	50
Chlorobenzene	ND		25		ug/L			11/21/15 16:49	50
Chloroethane	ND		50		ug/L			11/21/15 16:49	50
Chloroform	ND		50		ug/L			11/21/15 16:49	50
Chloromethane	ND		50		ug/L			11/21/15 16:49	50
2-Chlorotoluene	ND		25		ug/L			11/21/15 16:49	50
4-Chlorotoluene	ND		25		ug/L			11/21/15 16:49	50
Chlorodibromomethane	ND		25		ug/L			11/21/15 16:49	50
1,2-Dichlorobenzene	ND		25		ug/L			11/21/15 16:49	50
1,3-Dichlorobenzene	ND		25		ug/L			11/21/15 16:49	50
1,4-Dichlorobenzene	ND		25		ug/L			11/21/15 16:49	50
1,3-Dichloropropane	ND		50		ug/L			11/21/15 16:49	50
1,1-Dichloropropane	ND		25		ug/L			11/21/15 16:49	50
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			11/21/15 16:49	50
Ethylene Dibromide	ND		25		ug/L			11/21/15 16:49	50
Dibromomethane	ND		25		ug/L			11/21/15 16:49	50
Dichlorodifluoromethane	ND		25		ug/L			11/21/15 16:49	50
1,1-Dichloroethane	ND		25		ug/L			11/21/15 16:49	50
1,2-Dichloroethane	ND		25		ug/L			11/21/15 16:49	50
1,1-Dichloroethene	ND		25		ug/L			11/21/15 16:49	50
cis-1,2-Dichloroethene	ND		25		ug/L			11/21/15 16:49	50
trans-1,2-Dichloroethene	ND		25		ug/L			11/21/15 16:49	50
1,2-Dichloropropane	ND		25		ug/L			11/21/15 16:49	50
cis-1,3-Dichloropropene	ND		25		ug/L			11/21/15 16:49	50
trans-1,3-Dichloropropene	ND		25		ug/L			11/21/15 16:49	50
Ethylbenzene	280		25		ug/L			11/21/15 16:49	50
Hexachlorobutadiene	ND		50		ug/L			11/21/15 16:49	50
2-Hexanone	ND		2500		ug/L			11/21/15 16:49	50
Isopropylbenzene	ND		25		ug/L			11/21/15 16:49	50
4-Isopropyltoluene	ND		50		ug/L			11/21/15 16:49	50
Methylene Chloride	ND		250		ug/L			11/21/15 16:49	50
4-Methyl-2-pentanone (MIBK)	ND		2500		ug/L			11/21/15 16:49	50
Naphthalene	140		50		ug/L			11/21/15 16:49	50
N-Propylbenzene	ND		50		ug/L			11/21/15 16:49	50
Styrene	ND		25		ug/L			11/21/15 16:49	50
1,1,1,2-Tetrachloroethane	ND		25		ug/L			11/21/15 16:49	50

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-14

Date Collected: 11/11/15 11:10

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-4

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		25		ug/L			11/21/15 16:49	50
Tetrachloroethene	ND		25		ug/L			11/21/15 16:49	50
Toluene	25		25		ug/L			11/21/15 16:49	50
1,2,3-Trichlorobenzene	ND		50		ug/L			11/21/15 16:49	50
1,2,4-Trichlorobenzene	ND		50		ug/L			11/21/15 16:49	50
1,1,1-Trichloroethane	ND		25		ug/L			11/21/15 16:49	50
1,1,2-Trichloroethane	ND		25		ug/L			11/21/15 16:49	50
Trichloroethene	ND		25		ug/L			11/21/15 16:49	50
Trichlorofluoromethane	ND		50		ug/L			11/21/15 16:49	50
1,2,3-Trichloropropane	ND		25		ug/L			11/21/15 16:49	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25		ug/L			11/21/15 16:49	50
1,2,4-Trimethylbenzene	320		25		ug/L			11/21/15 16:49	50
1,3,5-Trimethylbenzene	28		25		ug/L			11/21/15 16:49	50
Vinyl acetate	ND		500		ug/L			11/21/15 16:49	50
Vinyl chloride	ND		25		ug/L			11/21/15 16:49	50
Xylenes, Total	360		50		ug/L			11/21/15 16:49	50
2,2-Dichloropropane	ND		25		ug/L			11/21/15 16:49	50
Gasoline Range Organics (GRO)	3300		2500		ug/L			11/21/15 16:49	50
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		67 - 130					11/21/15 16:49	50
1,2-Dichloroethane-d4 (Surr)	97		72 - 130					11/21/15 16:49	50
Toluene-d8 (Surr)	95		70 - 130					11/21/15 16:49	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			11/11/15 20:11	1
Sulfate	9.7		1.0		mg/L			11/11/15 20:11	1
Nitrate as NO3	ND		1.0		mg/L			11/11/15 20:11	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7.0		0.50		mg/L		11/12/15 16:38	11/14/15 00:32	1
Manganese	1.6		0.020		mg/L		11/12/15 16:38	11/14/15 00:32	1
Potassium	ND		1.0		mg/L		11/12/15 16:38	11/14/15 00:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	3.6		0.10		mg/L			11/17/15 15:45	1
Ferrous Iron	3.4	HF	0.10		mg/L			11/11/15 22:25	1
Ammonia	ND		0.20		mg/L		11/16/15 16:40	11/16/15 20:07	1
Orthophosphate as P	0.035		0.020		mg/L			11/11/15 18:20	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-15

Date Collected: 11/11/15 14:55

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	5.1		0.50		ug/L			11/21/15 17:18	1
Acetone	ND		50		ug/L			11/21/15 17:18	1
Benzene	ND		0.50		ug/L			11/21/15 17:18	1
Dichlorobromomethane	ND		0.50		ug/L			11/21/15 17:18	1
Bromobenzene	ND		1.0		ug/L			11/21/15 17:18	1
Chlorobromomethane	ND		1.0		ug/L			11/21/15 17:18	1
Bromoform	ND		1.0		ug/L			11/21/15 17:18	1
Bromomethane	ND		1.0		ug/L			11/21/15 17:18	1
2-Butanone (MEK)	ND		50		ug/L			11/21/15 17:18	1
n-Butylbenzene	ND		1.0		ug/L			11/21/15 17:18	1
sec-Butylbenzene	ND		1.0		ug/L			11/21/15 17:18	1
tert-Butylbenzene	ND		1.0		ug/L			11/21/15 17:18	1
Carbon disulfide	ND		5.0		ug/L			11/21/15 17:18	1
Carbon tetrachloride	ND		0.50		ug/L			11/21/15 17:18	1
Chlorobenzene	ND		0.50		ug/L			11/21/15 17:18	1
Chloroethane	ND		1.0		ug/L			11/21/15 17:18	1
Chloroform	ND		1.0		ug/L			11/21/15 17:18	1
Chloromethane	ND		1.0		ug/L			11/21/15 17:18	1
2-Chlorotoluene	ND		0.50		ug/L			11/21/15 17:18	1
4-Chlorotoluene	ND		0.50		ug/L			11/21/15 17:18	1
Chlorodibromomethane	ND		0.50		ug/L			11/21/15 17:18	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/21/15 17:18	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/21/15 17:18	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/21/15 17:18	1
1,3-Dichloropropane	ND		1.0		ug/L			11/21/15 17:18	1
1,1-Dichloropropane	ND		0.50		ug/L			11/21/15 17:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/21/15 17:18	1
Ethylene Dibromide	ND		0.50		ug/L			11/21/15 17:18	1
Dibromomethane	ND		0.50		ug/L			11/21/15 17:18	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/21/15 17:18	1
1,1-Dichloroethane	ND		0.50		ug/L			11/21/15 17:18	1
1,2-Dichloroethane	1.2		0.50		ug/L			11/21/15 17:18	1
1,1-Dichloroethene	ND		0.50		ug/L			11/21/15 17:18	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/21/15 17:18	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/21/15 17:18	1
1,2-Dichloropropane	ND		0.50		ug/L			11/21/15 17:18	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/21/15 17:18	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/21/15 17:18	1
Ethylbenzene	ND		0.50		ug/L			11/21/15 17:18	1
Hexachlorobutadiene	ND		1.0		ug/L			11/21/15 17:18	1
2-Hexanone	ND		50		ug/L			11/21/15 17:18	1
Isopropylbenzene	ND		0.50		ug/L			11/21/15 17:18	1
4-Isopropyltoluene	ND		1.0		ug/L			11/21/15 17:18	1
Methylene Chloride	ND		5.0		ug/L			11/21/15 17:18	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/21/15 17:18	1
Naphthalene	ND		1.0		ug/L			11/21/15 17:18	1
N-Propylbenzene	ND		1.0		ug/L			11/21/15 17:18	1
Styrene	ND		0.50		ug/L			11/21/15 17:18	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/21/15 17:18	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-15

Date Collected: 11/11/15 14:55

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-5

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			11/21/15 17:18	1
Tetrachloroethene	ND		0.50		ug/L			11/21/15 17:18	1
Toluene	ND		0.50		ug/L			11/21/15 17:18	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/21/15 17:18	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/21/15 17:18	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/21/15 17:18	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/21/15 17:18	1
Trichloroethene	ND		0.50		ug/L			11/21/15 17:18	1
Trichlorofluoromethane	ND		1.0		ug/L			11/21/15 17:18	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/21/15 17:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/21/15 17:18	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/21/15 17:18	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/21/15 17:18	1
Vinyl acetate	ND		10		ug/L			11/21/15 17:18	1
Vinyl chloride	ND		0.50		ug/L			11/21/15 17:18	1
Xylenes, Total	ND		1.0		ug/L			11/21/15 17:18	1
2,2-Dichloropropane	ND		0.50		ug/L			11/21/15 17:18	1
Gasoline Range Organics (GRO)	ND		50		ug/L			11/21/15 17:18	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		67 - 130					11/21/15 17:18	1
1,2-Dichloroethane-d4 (Surr)	98		72 - 130					11/21/15 17:18	1
Toluene-d8 (Surr)	96		70 - 130					11/21/15 17:18	1

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			11/11/15 20:45	1
Sulfate	57		10		mg/L			11/11/15 21:02	10
Nitrate as NO3	25		10		mg/L			11/11/15 21:02	10

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	10		0.50		mg/L		11/12/15 16:38	11/14/15 00:37	1
Manganese	0.40		0.020		mg/L		11/12/15 16:38	11/14/15 00:37	1
Potassium	1.3		1.0		mg/L		11/12/15 16:38	11/14/15 00:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	9.5		0.10		mg/L			11/17/15 15:45	1
Ferrous Iron	0.48	HF	0.10		mg/L			11/11/15 22:25	1
Ammonia	ND		0.20		mg/L		11/16/15 16:40	11/16/15 20:10	1
Orthophosphate as P	0.059		0.020		mg/L			11/11/15 18:20	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-16

Date Collected: 11/11/15 09:40

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	1.1		0.50		ug/L			11/21/15 17:47	1
Acetone	ND		50		ug/L			11/21/15 17:47	1
Benzene	ND		0.50		ug/L			11/21/15 17:47	1
Dichlorobromomethane	ND		0.50		ug/L			11/21/15 17:47	1
Bromobenzene	ND		1.0		ug/L			11/21/15 17:47	1
Chlorobromomethane	ND		1.0		ug/L			11/21/15 17:47	1
Bromoform	ND		1.0		ug/L			11/21/15 17:47	1
Bromomethane	ND		1.0		ug/L			11/21/15 17:47	1
2-Butanone (MEK)	ND		50		ug/L			11/21/15 17:47	1
n-Butylbenzene	ND		1.0		ug/L			11/21/15 17:47	1
sec-Butylbenzene	ND		1.0		ug/L			11/21/15 17:47	1
tert-Butylbenzene	ND		1.0		ug/L			11/21/15 17:47	1
Carbon disulfide	ND		5.0		ug/L			11/21/15 17:47	1
Carbon tetrachloride	ND		0.50		ug/L			11/21/15 17:47	1
Chlorobenzene	ND		0.50		ug/L			11/21/15 17:47	1
Chloroethane	ND		1.0		ug/L			11/21/15 17:47	1
Chloroform	ND		1.0		ug/L			11/21/15 17:47	1
Chloromethane	ND		1.0		ug/L			11/21/15 17:47	1
2-Chlorotoluene	ND		0.50		ug/L			11/21/15 17:47	1
4-Chlorotoluene	ND		0.50		ug/L			11/21/15 17:47	1
Chlorodibromomethane	ND		0.50		ug/L			11/21/15 17:47	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/21/15 17:47	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/21/15 17:47	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/21/15 17:47	1
1,3-Dichloropropane	ND		1.0		ug/L			11/21/15 17:47	1
1,1-Dichloropropane	ND		0.50		ug/L			11/21/15 17:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/21/15 17:47	1
Ethylene Dibromide	ND		0.50		ug/L			11/21/15 17:47	1
Dibromomethane	ND		0.50		ug/L			11/21/15 17:47	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/21/15 17:47	1
1,1-Dichloroethane	ND		0.50		ug/L			11/21/15 17:47	1
1,2-Dichloroethane	0.74		0.50		ug/L			11/21/15 17:47	1
1,1-Dichloroethene	ND		0.50		ug/L			11/21/15 17:47	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/21/15 17:47	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/21/15 17:47	1
1,2-Dichloropropane	ND		0.50		ug/L			11/21/15 17:47	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/21/15 17:47	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/21/15 17:47	1
Ethylbenzene	ND		0.50		ug/L			11/21/15 17:47	1
Hexachlorobutadiene	ND		1.0		ug/L			11/21/15 17:47	1
2-Hexanone	ND		50		ug/L			11/21/15 17:47	1
Isopropylbenzene	ND		0.50		ug/L			11/21/15 17:47	1
4-Isopropyltoluene	ND		1.0		ug/L			11/21/15 17:47	1
Methylene Chloride	ND		5.0		ug/L			11/21/15 17:47	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/21/15 17:47	1
Naphthalene	ND		1.0		ug/L			11/21/15 17:47	1
N-Propylbenzene	ND		1.0		ug/L			11/21/15 17:47	1
Styrene	ND		0.50		ug/L			11/21/15 17:47	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/21/15 17:47	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-16

Date Collected: 11/11/15 09:40

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-6

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			11/21/15 17:47	1
Tetrachloroethene	ND		0.50		ug/L			11/21/15 17:47	1
Toluene	ND		0.50		ug/L			11/21/15 17:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/21/15 17:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/21/15 17:47	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/21/15 17:47	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/21/15 17:47	1
Trichloroethene	ND		0.50		ug/L			11/21/15 17:47	1
Trichlorofluoromethane	ND		1.0		ug/L			11/21/15 17:47	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/21/15 17:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/21/15 17:47	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/21/15 17:47	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/21/15 17:47	1
Vinyl acetate	ND		10		ug/L			11/21/15 17:47	1
Vinyl chloride	ND		0.50		ug/L			11/21/15 17:47	1
Xylenes, Total	ND		1.0		ug/L			11/21/15 17:47	1
2,2-Dichloropropane	ND		0.50		ug/L			11/21/15 17:47	1
Gasoline Range Organics (GRO)	ND		50		ug/L			11/21/15 17:47	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		67 - 130					11/21/15 17:47	1
1,2-Dichloroethane-d4 (Surr)	101		72 - 130					11/21/15 17:47	1
Toluene-d8 (Surr)	95		70 - 130					11/21/15 17:47	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			11/11/15 21:53	1
Sulfate	8.0		1.0		mg/L			11/11/15 21:53	1
Nitrate as NO3	2.0		1.0		mg/L			11/11/15 21:53	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.74		0.50		mg/L		11/12/15 16:38	11/14/15 00:42	1
Manganese	0.22		0.020		mg/L		11/12/15 16:38	11/14/15 00:42	1
Potassium	ND		1.0		mg/L		11/12/15 16:38	11/14/15 00:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron	0.74		0.10		mg/L			11/17/15 15:45	1
Ferrous Iron	ND	HF	0.10		mg/L			11/11/15 22:25	1
Ammonia	ND		0.20		mg/L		11/16/15 16:40	11/16/15 20:18	1
Orthophosphate as P	0.039		0.020		mg/L			11/11/15 18:20	1

TestAmerica Pleasanton

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (67-130)	12DCE (72-130)	TOL (70-130)
720-68619-1	MW-11R	95	101	98
720-68619-2	MW-12	96	105	98
720-68619-2 MS	MW-12	98	97	98
720-68619-2 MSD	MW-12	97	99	98
720-68619-3	MW-13	93	102	97
720-68619-4	MW-14	94	97	95
720-68619-5	MW-15	93	98	96
720-68619-6	MW-16	92	101	95
LCS 720-193010/5	Lab Control Sample	94	93	97
LCS 720-193010/7	Lab Control Sample	96	98	99
LCSD 720-193010/6	Lab Control Sample Dup	96	93	97
LCSD 720-193010/8	Lab Control Sample Dup	96	100	99
MB 720-193010/4	Method Blank	93	99	96

Surrogate Legend

BFB = 4-Bromofluorobenzene

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

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

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

Lab Sample ID: MB 720-193010/4
Matrix: Water
Analysis Batch: 193010

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/21/15 10:58	1
Acetone	ND		50		ug/L			11/21/15 10:58	1
Benzene	ND		0.50		ug/L			11/21/15 10:58	1
Dichlorobromomethane	ND		0.50		ug/L			11/21/15 10:58	1
Bromobenzene	ND		1.0		ug/L			11/21/15 10:58	1
Chlorobromomethane	ND		1.0		ug/L			11/21/15 10:58	1
Bromoform	ND		1.0		ug/L			11/21/15 10:58	1
Bromomethane	ND		1.0		ug/L			11/21/15 10:58	1
2-Butanone (MEK)	ND		50		ug/L			11/21/15 10:58	1
n-Butylbenzene	ND		1.0		ug/L			11/21/15 10:58	1
sec-Butylbenzene	ND		1.0		ug/L			11/21/15 10:58	1
tert-Butylbenzene	ND		1.0		ug/L			11/21/15 10:58	1
Carbon disulfide	ND		5.0		ug/L			11/21/15 10:58	1
Carbon tetrachloride	ND		0.50		ug/L			11/21/15 10:58	1
Chlorobenzene	ND		0.50		ug/L			11/21/15 10:58	1
Chloroethane	ND		1.0		ug/L			11/21/15 10:58	1
Chloroform	ND		1.0		ug/L			11/21/15 10:58	1
Chloromethane	ND		1.0		ug/L			11/21/15 10:58	1
2-Chlorotoluene	ND		0.50		ug/L			11/21/15 10:58	1
4-Chlorotoluene	ND		0.50		ug/L			11/21/15 10:58	1
Chlorodibromomethane	ND		0.50		ug/L			11/21/15 10:58	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/21/15 10:58	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/21/15 10:58	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/21/15 10:58	1
1,3-Dichloropropane	ND		1.0		ug/L			11/21/15 10:58	1
1,1-Dichloropropene	ND		0.50		ug/L			11/21/15 10:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/21/15 10:58	1
Ethylene Dibromide	ND		0.50		ug/L			11/21/15 10:58	1
Dibromomethane	ND		0.50		ug/L			11/21/15 10:58	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/21/15 10:58	1
1,1-Dichloroethane	ND		0.50		ug/L			11/21/15 10:58	1
1,2-Dichloroethane	ND		0.50		ug/L			11/21/15 10:58	1
1,1-Dichloroethene	ND		0.50		ug/L			11/21/15 10:58	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/21/15 10:58	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/21/15 10:58	1
1,2-Dichloropropane	ND		0.50		ug/L			11/21/15 10:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/21/15 10:58	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/21/15 10:58	1
Ethylbenzene	ND		0.50		ug/L			11/21/15 10:58	1
Hexachlorobutadiene	ND		1.0		ug/L			11/21/15 10:58	1
2-Hexanone	ND		50		ug/L			11/21/15 10:58	1
Isopropylbenzene	ND		0.50		ug/L			11/21/15 10:58	1
4-Isopropyltoluene	ND		1.0		ug/L			11/21/15 10:58	1
Methylene Chloride	ND		5.0		ug/L			11/21/15 10:58	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/21/15 10:58	1
Naphthalene	ND		1.0		ug/L			11/21/15 10:58	1
N-Propylbenzene	ND		1.0		ug/L			11/21/15 10:58	1
Styrene	ND		0.50		ug/L			11/21/15 10:58	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

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

Lab Sample ID: MB 720-193010/4

Matrix: Water

Analysis Batch: 193010

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/21/15 10:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/21/15 10:58	1
Tetrachloroethene	ND		0.50		ug/L			11/21/15 10:58	1
Toluene	ND		0.50		ug/L			11/21/15 10:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/21/15 10:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/21/15 10:58	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/21/15 10:58	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/21/15 10:58	1
Trichloroethene	ND		0.50		ug/L			11/21/15 10:58	1
Trichlorofluoromethane	ND		1.0		ug/L			11/21/15 10:58	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/21/15 10:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/21/15 10:58	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/21/15 10:58	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/21/15 10:58	1
Vinyl acetate	ND		10		ug/L			11/21/15 10:58	1
Vinyl chloride	ND		0.50		ug/L			11/21/15 10:58	1
Xylenes, Total	ND		1.0		ug/L			11/21/15 10:58	1
2,2-Dichloropropane	ND		0.50		ug/L			11/21/15 10:58	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			11/21/15 10:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		67 - 130		11/21/15 10:58	1
1,2-Dichloroethane-d4 (Surr)	99		72 - 130		11/21/15 10:58	1
Toluene-d8 (Surr)	96		70 - 130		11/21/15 10:58	1

Lab Sample ID: LCS 720-193010/5

Matrix: Water

Analysis Batch: 193010

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.0		ug/L		96	62 - 130
Acetone	125	122		ug/L		97	26 - 180
Benzene	25.0	23.2		ug/L		93	79 - 130
Dichlorobromomethane	25.0	24.8		ug/L		99	70 - 130
Bromobenzene	25.0	22.3		ug/L		89	70 - 130
Chlorobromomethane	25.0	24.5		ug/L		98	70 - 130
Bromoform	25.0	25.5		ug/L		102	68 - 136
Bromomethane	25.0	24.4		ug/L		97	43 - 151
2-Butanone (MEK)	125	107		ug/L		86	54 - 130
n-Butylbenzene	25.0	22.9		ug/L		91	70 - 142
sec-Butylbenzene	25.0	22.5		ug/L		90	70 - 134
tert-Butylbenzene	25.0	22.3		ug/L		89	70 - 135
Carbon disulfide	25.0	21.0		ug/L		84	58 - 130
Carbon tetrachloride	25.0	22.8		ug/L		91	70 - 146
Chlorobenzene	25.0	23.4		ug/L		94	70 - 130
Chloroethane	25.0	24.0		ug/L		96	62 - 138
Chloroform	25.0	23.5		ug/L		94	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

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

Lab Sample ID: LCS 720-193010/5

Matrix: Water

Analysis Batch: 193010

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	22.1		ug/L		88	52 - 175
2-Chlorotoluene	25.0	21.3		ug/L		85	70 - 130
4-Chlorotoluene	25.0	22.0		ug/L		88	70 - 130
Chlorodibromomethane	25.0	25.8		ug/L		103	70 - 145
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,3-Dichlorobenzene	25.0	22.5		ug/L		90	70 - 130
1,4-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,3-Dichloropropane	25.0	23.9		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	22.4		ug/L		90	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.7		ug/L		87	70 - 136
Ethylene Dibromide	25.0	23.9		ug/L		95	70 - 130
Dibromomethane	25.0	23.5		ug/L		94	70 - 130
Dichlorodifluoromethane	25.0	15.3		ug/L		61	34 - 132
1,1-Dichloroethane	25.0	23.4		ug/L		94	70 - 130
1,2-Dichloroethane	25.0	22.3		ug/L		89	61 - 132
1,1-Dichloroethene	25.0	20.5		ug/L		82	64 - 128
cis-1,2-Dichloroethene	25.0	23.6		ug/L		94	70 - 130
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	68 - 130
1,2-Dichloropropane	25.0	23.9		ug/L		96	70 - 130
cis-1,3-Dichloropropene	25.0	24.9		ug/L		100	70 - 130
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 140
Ethylbenzene	25.0	22.7		ug/L		91	80 - 120
Hexachlorobutadiene	25.0	21.1		ug/L		85	70 - 130
2-Hexanone	125	110		ug/L		88	60 - 164
Isopropylbenzene	25.0	23.5		ug/L		94	70 - 130
4-Isopropyltoluene	25.0	23.2		ug/L		93	70 - 130
Methylene Chloride	25.0	23.9		ug/L		96	70 - 147
4-Methyl-2-pentanone (MIBK)	125	106		ug/L		85	58 - 130
Naphthalene	25.0	21.4		ug/L		86	70 - 130
N-Propylbenzene	25.0	23.0		ug/L		92	70 - 130
Styrene	25.0	23.5		ug/L		94	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.6		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.6		ug/L		86	70 - 130
Tetrachloroethene	25.0	22.9		ug/L		92	70 - 130
Toluene	25.0	21.8		ug/L		87	78 - 120
1,2,3-Trichlorobenzene	25.0	23.1		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,1,1-Trichloroethane	25.0	22.9		ug/L		92	70 - 130
1,1,2-Trichloroethane	25.0	24.1		ug/L		96	70 - 130
Trichloroethene	25.0	23.8		ug/L		95	70 - 130
Trichlorofluoromethane	25.0	22.0		ug/L		88	66 - 132
1,2,3-Trichloropropane	25.0	21.3		ug/L		85	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	23.1		ug/L		93	70 - 132
1,3,5-Trimethylbenzene	25.0	22.7		ug/L		91	70 - 130
Vinyl acetate	25.0	23.8		ug/L		95	43 - 163
Vinyl chloride	25.0	25.7		ug/L		103	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

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

Lab Sample ID: LCS 720-193010/5

Matrix: Water

Analysis Batch: 193010

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	22.4		ug/L		90	70 - 142
o-Xylene	25.0	23.0		ug/L		92	70 - 130
2,2-Dichloropropane	25.0	22.5		ug/L		90	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	93		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCS 720-193010/7

Matrix: Water

Analysis Batch: 193010

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)	500	455		ug/L		91	62 - 120
-C5-C12							

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	98		72 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 720-193010/6

Matrix: Water

Analysis Batch: 193010

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	23.8		ug/L		95	62 - 130	1	20
Acetone	125	111		ug/L		89	26 - 180	9	30
Benzene	25.0	22.7		ug/L		91	79 - 130	2	20
Dichlorobromomethane	25.0	24.6		ug/L		98	70 - 130	1	20
Bromobenzene	25.0	22.2		ug/L		89	70 - 130	1	20
Chlorobromomethane	25.0	23.9		ug/L		96	70 - 130	3	20
Bromoform	25.0	25.6		ug/L		102	68 - 136	0	20
Bromomethane	25.0	24.5		ug/L		98	43 - 151	1	20
2-Butanone (MEK)	125	104		ug/L		83	54 - 130	3	20
n-Butylbenzene	25.0	22.7		ug/L		91	70 - 142	1	20
sec-Butylbenzene	25.0	22.1		ug/L		89	70 - 134	2	20
tert-Butylbenzene	25.0	22.2		ug/L		89	70 - 135	0	20
Carbon disulfide	25.0	20.6		ug/L		83	58 - 130	2	20
Carbon tetrachloride	25.0	22.4		ug/L		89	70 - 146	2	20
Chlorobenzene	25.0	23.4		ug/L		93	70 - 130	0	20
Chloroethane	25.0	23.9		ug/L		96	62 - 138	0	20
Chloroform	25.0	23.0		ug/L		92	70 - 130	2	20
Chloromethane	25.0	22.5		ug/L		90	52 - 175	2	20
2-Chlorotoluene	25.0	21.5		ug/L		86	70 - 130	1	20
4-Chlorotoluene	25.0	21.6		ug/L		86	70 - 130	2	20
Chlorodibromomethane	25.0	25.3		ug/L		101	70 - 145	2	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

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

Lab Sample ID: LCSD 720-193010/6

Matrix: Water

Analysis Batch: 193010

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	22.5		ug/L		90	70 - 130	2	20
1,3-Dichlorobenzene	25.0	22.3		ug/L		89	70 - 130	1	20
1,4-Dichlorobenzene	25.0	22.9		ug/L		92	70 - 130	2	20
1,3-Dichloropropane	25.0	23.7		ug/L		95	70 - 130	1	20
1,1-Dichloropropene	25.0	22.0		ug/L		88	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	21.8		ug/L		87	70 - 136	1	20
Ethylene Dibromide	25.0	23.4		ug/L		94	70 - 130	2	20
Dibromomethane	25.0	23.4		ug/L		94	70 - 130	1	20
Dichlorodifluoromethane	25.0	17.5		ug/L		70	34 - 132	13	20
1,1-Dichloroethane	25.0	23.4		ug/L		94	70 - 130	0	20
1,2-Dichloroethane	25.0	22.6		ug/L		90	61 - 132	1	20
1,1-Dichloroethene	25.0	20.2		ug/L		81	64 - 128	2	20
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	70 - 130	0	20
trans-1,2-Dichloroethene	25.0	22.6		ug/L		90	68 - 130	2	20
1,2-Dichloropropane	25.0	23.6		ug/L		94	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	24.5		ug/L		98	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	25.6		ug/L		102	70 - 140	1	20
Ethylbenzene	25.0	22.7		ug/L		91	80 - 120	0	20
Hexachlorobutadiene	25.0	21.0		ug/L		84	70 - 130	1	20
2-Hexanone	125	108		ug/L		86	60 - 164	2	20
Isopropylbenzene	25.0	23.1		ug/L		92	70 - 130	2	20
4-Isopropyltoluene	25.0	22.9		ug/L		91	70 - 130	2	20
Methylene Chloride	25.0	23.5		ug/L		94	70 - 147	2	20
4-Methyl-2-pentanone (MIBK)	125	105		ug/L		84	58 - 130	1	20
Naphthalene	25.0	21.2		ug/L		85	70 - 130	1	20
N-Propylbenzene	25.0	22.8		ug/L		91	70 - 130	1	20
Styrene	25.0	23.4		ug/L		93	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	23.9		ug/L		95	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	21.8		ug/L		87	70 - 130	1	20
Tetrachloroethene	25.0	22.5		ug/L		90	70 - 130	2	20
Toluene	25.0	21.7		ug/L		87	78 - 120	0	20
1,2,3-Trichlorobenzene	25.0	23.2		ug/L		93	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	23.0		ug/L		92	70 - 130	2	20
1,1,1-Trichloroethane	25.0	22.4		ug/L		89	70 - 130	3	20
1,1,2-Trichloroethane	25.0	24.1		ug/L		96	70 - 130	0	20
Trichloroethene	25.0	23.4		ug/L		94	70 - 130	1	20
Trichlorofluoromethane	25.0	22.2		ug/L		89	66 - 132	1	20
1,2,3-Trichloropropane	25.0	21.1		ug/L		84	70 - 130	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.2		ug/L		85	42 - 162	3	20
1,2,4-Trimethylbenzene	25.0	23.0		ug/L		92	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	22.4		ug/L		90	70 - 130	1	20
Vinyl acetate	25.0	23.9		ug/L		96	43 - 163	1	20
Vinyl chloride	25.0	24.9		ug/L		100	54 - 135	3	20
m-Xylene & p-Xylene	25.0	22.4		ug/L		89	70 - 142	0	20
o-Xylene	25.0	22.9		ug/L		92	70 - 130	0	20
2,2-Dichloropropane	25.0	21.5		ug/L		86	70 - 140	4	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

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

Lab Sample ID: LCSD 720-193010/6

Matrix: Water

Analysis Batch: 193010

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)	93		72 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 720-193010/8

Matrix: Water

Analysis Batch: 193010

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	460		ug/L		92	62 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: 720-68619-2 MS

Matrix: Water

Analysis Batch: 193010

Client Sample ID: MW-12

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	4.0		25.0	28.7		ug/L		99	60 - 138
Acetone	ND		125	105		ug/L		84	60 - 140
Benzene	8.7		25.0	32.6		ug/L		96	60 - 140
Dichlorobromomethane	ND		25.0	25.4		ug/L		102	60 - 140
Bromobenzene	ND		25.0	22.7		ug/L		91	60 - 140
Chlorobromomethane	ND		25.0	24.7		ug/L		99	60 - 140
Bromoform	ND		25.0	25.8		ug/L		103	56 - 140
Bromomethane	ND		25.0	23.5		ug/L		94	23 - 140
2-Butanone (MEK)	ND		125	111		ug/L		88	60 - 140
n-Butylbenzene	ND		25.0	22.9		ug/L		92	60 - 140
sec-Butylbenzene	ND		25.0	23.2		ug/L		90	60 - 140
tert-Butylbenzene	ND		25.0	22.5		ug/L		90	60 - 140
Carbon disulfide	ND		25.0	20.3		ug/L		81	38 - 140
Carbon tetrachloride	ND		25.0	22.7		ug/L		91	60 - 140
Chlorobenzene	ND		25.0	23.6		ug/L		94	60 - 140
Chloroethane	ND		25.0	23.3		ug/L		93	51 - 140
Chloroform	ND		25.0	23.5		ug/L		94	60 - 140
Chloromethane	ND		25.0	23.8		ug/L		95	52 - 140
2-Chlorotoluene	ND		25.0	22.2		ug/L		89	60 - 140
4-Chlorotoluene	ND		25.0	22.5		ug/L		89	60 - 140
Chlorodibromomethane	ND		25.0	26.4		ug/L		106	60 - 140
1,2-Dichlorobenzene	ND		25.0	23.3		ug/L		93	60 - 140
1,3-Dichlorobenzene	ND		25.0	22.7		ug/L		91	60 - 140
1,4-Dichlorobenzene	ND		25.0	23.5		ug/L		94	60 - 140
1,3-Dichloropropane	ND		25.0	24.7		ug/L		97	60 - 140
1,1-Dichloropropene	ND		25.0	22.3		ug/L		89	60 - 140

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

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

Lab Sample ID: 720-68619-2 MS

Matrix: Water

Analysis Batch: 193010

Client Sample ID: MW-12

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		25.0	21.9		ug/L		88	60 - 140
Ethylene Dibromide	ND		25.0	24.2		ug/L		97	60 - 140
Dibromomethane	ND		25.0	24.3		ug/L		97	60 - 140
Dichlorodifluoromethane	ND		25.0	16.1		ug/L		65	38 - 140
1,1-Dichloroethane	ND		25.0	23.6		ug/L		94	60 - 140
1,2-Dichloroethane	2.8		25.0	25.8		ug/L		92	60 - 140
1,1-Dichloroethene	ND		25.0	20.3		ug/L		81	60 - 140
cis-1,2-Dichloroethene	ND		25.0	23.6		ug/L		94	60 - 140
trans-1,2-Dichloroethene	ND		25.0	22.9		ug/L		92	60 - 140
1,2-Dichloropropane	ND		25.0	24.3		ug/L		97	60 - 140
cis-1,3-Dichloropropene	ND		25.0	25.2		ug/L		101	60 - 140
trans-1,3-Dichloropropene	ND		25.0	26.8		ug/L		107	60 - 140
Ethylbenzene	8.3		25.0	32.5		ug/L		97	60 - 140
Hexachlorobutadiene	ND		25.0	21.0		ug/L		84	60 - 140
2-Hexanone	ND		125	111		ug/L		89	60 - 140
Isopropylbenzene	1.1		25.0	24.5		ug/L		94	60 - 140
4-Isopropyltoluene	ND		25.0	22.9		ug/L		91	60 - 140
Methylene Chloride	ND		25.0	23.2		ug/L		93	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	111		ug/L		89	58 - 130
Naphthalene	4.2		25.0	26.2		ug/L		88	56 - 140
N-Propylbenzene	ND		25.0	23.6		ug/L		92	60 - 140
Styrene	ND		25.0	23.7		ug/L		95	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	24.0		ug/L		96	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	24.1		ug/L		96	60 - 140
Tetrachloroethene	ND		25.0	22.7		ug/L		91	60 - 140
Toluene	21		25.0	45.8		ug/L		98	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	23.8		ug/L		95	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	23.5		ug/L		94	60 - 140
1,1,1-Trichloroethane	ND		25.0	22.3		ug/L		89	60 - 140
1,1,2-Trichloroethane	ND		25.0	25.2		ug/L		101	60 - 140
Trichloroethene	ND		25.0	23.6		ug/L		94	60 - 140
Trichlorofluoromethane	ND		25.0	21.2		ug/L		85	60 - 140
1,2,3-Trichloropropane	ND		25.0	21.6		ug/L		86	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	21.0		ug/L		84	60 - 140
1,2,4-Trimethylbenzene	4.7		25.0	29.3		ug/L		98	60 - 140
1,3,5-Trimethylbenzene	0.99		25.0	24.0		ug/L		92	60 - 140
Vinyl acetate	ND		25.0	24.9		ug/L		89	40 - 140
Vinyl chloride	ND		25.0	23.4		ug/L		94	58 - 140
m-Xylene & p-Xylene	40		25.0	68.1		ug/L		113	60 - 140
o-Xylene	18		25.0	45.1		ug/L		108	60 - 140
2,2-Dichloropropane	ND		25.0	20.8		ug/L		83	60 - 140

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

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

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

Lab Sample ID: 720-68619-2 MSD

Matrix: Water

Analysis Batch: 193010

Client Sample ID: MW-12

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	4.0		25.0	29.5		ug/L		102	60 - 138	3	20
Acetone	ND		125	113		ug/L		90	60 - 140	7	20
Benzene	8.7		25.0	32.2		ug/L		94	60 - 140	1	20
Dichlorobromomethane	ND		25.0	25.2		ug/L		101	60 - 140	1	20
Bromobenzene	ND		25.0	22.4		ug/L		90	60 - 140	1	20
Chlorobromomethane	ND		25.0	24.7		ug/L		99	60 - 140	0	20
Bromoform	ND		25.0	26.7		ug/L		107	56 - 140	3	20
Bromomethane	ND		25.0	23.8		ug/L		95	23 - 140	1	20
2-Butanone (MEK)	ND		125	110		ug/L		88	60 - 140	0	20
n-Butylbenzene	ND		25.0	22.5		ug/L		90	60 - 140	2	20
sec-Butylbenzene	ND		25.0	23.1		ug/L		89	60 - 140	0	20
tert-Butylbenzene	ND		25.0	22.0		ug/L		88	60 - 140	2	20
Carbon disulfide	ND		25.0	20.7		ug/L		83	38 - 140	2	20
Carbon tetrachloride	ND		25.0	22.7		ug/L		91	60 - 140	0	20
Chlorobenzene	ND		25.0	23.8		ug/L		95	60 - 140	1	20
Chloroethane	ND		25.0	23.4		ug/L		93	51 - 140	0	20
Chloroform	ND		25.0	23.5		ug/L		94	60 - 140	0	20
Chloromethane	ND		25.0	22.1		ug/L		88	52 - 140	8	20
2-Chlorotoluene	ND		25.0	22.0		ug/L		88	60 - 140	1	20
4-Chlorotoluene	ND		25.0	22.4		ug/L		89	60 - 140	0	20
Chlorodibromomethane	ND		25.0	26.7		ug/L		107	60 - 140	1	20
1,2-Dichlorobenzene	ND		25.0	23.4		ug/L		94	60 - 140	1	20
1,3-Dichlorobenzene	ND		25.0	22.6		ug/L		90	60 - 140	0	20
1,4-Dichlorobenzene	ND		25.0	23.1		ug/L		92	60 - 140	2	20
1,3-Dichloropropane	ND		25.0	25.1		ug/L		99	60 - 140	2	20
1,1-Dichloropropene	ND		25.0	22.0		ug/L		88	60 - 140	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	23.2		ug/L		93	60 - 140	6	20
Ethylene Dibromide	ND		25.0	24.7		ug/L		99	60 - 140	2	20
Dibromomethane	ND		25.0	24.2		ug/L		97	60 - 140	0	20
Dichlorodifluoromethane	ND		25.0	16.4		ug/L		66	38 - 140	2	20
1,1-Dichloroethane	ND		25.0	23.5		ug/L		94	60 - 140	1	20
1,2-Dichloroethane	2.8		25.0	26.5		ug/L		95	60 - 140	3	20
1,1-Dichloroethene	ND		25.0	20.1		ug/L		80	60 - 140	1	20
cis-1,2-Dichloroethene	ND		25.0	24.0		ug/L		96	60 - 140	2	20
trans-1,2-Dichloroethene	ND		25.0	22.8		ug/L		91	60 - 140	1	20
1,2-Dichloropropane	ND		25.0	24.2		ug/L		97	60 - 140	0	20
cis-1,3-Dichloropropene	ND		25.0	25.3		ug/L		101	60 - 140	0	20
trans-1,3-Dichloropropene	ND		25.0	26.6		ug/L		106	60 - 140	1	20
Ethylbenzene	8.3		25.0	32.1		ug/L		95	60 - 140	1	20
Hexachlorobutadiene	ND		25.0	20.6		ug/L		82	60 - 140	2	20
2-Hexanone	ND		125	116		ug/L		93	60 - 140	4	20
Isopropylbenzene	1.1		25.0	24.4		ug/L		94	60 - 140	0	20
4-Isopropyltoluene	ND		25.0	22.8		ug/L		91	60 - 140	0	20
Methylene Chloride	ND		25.0	23.2		ug/L		93	40 - 140	0	20
4-Methyl-2-pentanone (MIBK)	ND		125	115		ug/L		92	58 - 130	4	20
Naphthalene	4.2		25.0	26.6		ug/L		90	56 - 140	2	20
N-Propylbenzene	ND		25.0	23.4		ug/L		92	60 - 140	1	20
Styrene	ND		25.0	24.3		ug/L		97	60 - 140	3	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

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

Lab Sample ID: 720-68619-2 MSD

Matrix: Water

Analysis Batch: 193010

Client Sample ID: MW-12

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	24.2		ug/L		97	60 - 140	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.0		ug/L		96	60 - 140	1	20
Tetrachloroethene	ND		25.0	22.5		ug/L		90	60 - 140	1	20
Toluene	21		25.0	45.2		ug/L		95	60 - 140	1	20
1,2,3-Trichlorobenzene	ND		25.0	23.6		ug/L		95	60 - 140	0	20
1,2,4-Trichlorobenzene	ND		25.0	23.1		ug/L		92	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	22.6		ug/L		90	60 - 140	1	20
1,1,2-Trichloroethane	ND		25.0	25.2		ug/L		101	60 - 140	0	20
Trichloroethene	ND		25.0	23.5		ug/L		94	60 - 140	0	20
Trichlorofluoromethane	ND		25.0	22.3		ug/L		89	60 - 140	5	20
1,2,3-Trichloropropane	ND		25.0	22.1		ug/L		88	60 - 140	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	21.0		ug/L		84	60 - 140	0	20
1,2,4-Trimethylbenzene	4.7		25.0	28.7		ug/L		96	60 - 140	2	20
1,3,5-Trimethylbenzene	0.99		25.0	23.3		ug/L		89	60 - 140	3	20
Vinyl acetate	ND		25.0	25.5		ug/L		92	40 - 140	3	20
Vinyl chloride	ND		25.0	23.3		ug/L		93	58 - 140	0	20
m-Xylene & p-Xylene	40		25.0	66.5		ug/L		107	60 - 140	2	20
o-Xylene	18		25.0	45.3		ug/L		109	60 - 140	0	20
2,2-Dichloropropane	ND		25.0	22.3		ug/L		89	60 - 140	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-192386/7

Matrix: Water

Analysis Batch: 192386

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			11/11/15 10:47	1

Lab Sample ID: LCS 720-192386/8

Matrix: Water

Analysis Batch: 192386

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	9.77		mg/L		98	90 - 110

Lab Sample ID: MB 720-192387/7

Matrix: Water

Analysis Batch: 192387

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			11/11/15 10:47	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 720-192387/7

Matrix: Water

Analysis Batch: 192387

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as NO3	ND		1.0		mg/L			11/11/15 10:47	1

Lab Sample ID: LCS 720-192387/8

Matrix: Water

Analysis Batch: 192387

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as NO2	10.0	10.1		mg/L		101	90 - 110
Nitrate as NO3	10.0	9.53		mg/L		95	90 - 110

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 720-192509/1-B

Matrix: Water

Analysis Batch: 192574

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 192509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.50		mg/L		11/12/15 16:38	11/13/15 14:02	1
Manganese	ND		0.020		mg/L		11/12/15 16:38	11/13/15 14:02	1

Lab Sample ID: MB 720-192509/1-B

Matrix: Water

Analysis Batch: 192695

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 192509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		1.0		mg/L		11/12/15 16:38	11/16/15 15:39	1

Lab Sample ID: LCS 720-192509/2-B

Matrix: Water

Analysis Batch: 192574

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 192509

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

Lab Sample ID: LCS 720-192509/2-B

Matrix: Water

Analysis Batch: 192695

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 192509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.1		mg/L		101	85 - 115

Lab Sample ID: LCSD 720-192509/3-B

Matrix: Water

Analysis Batch: 192574

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 192509

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	1.00	1.04		mg/L		104	85 - 115	2	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

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

Lab Sample ID: LCSD 720-192509/3-B

Matrix: Water

Analysis Batch: 192695

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 192509

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Potassium	10.0	10.4		mg/L		104	85 - 115	4	20

Lab Sample ID: 720-68619-1 MS

Matrix: Water

Analysis Batch: 192618

Client Sample ID: MW-11R

Prep Type: Total/NA

Prep Batch: 192509

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Manganese	1.8		1.00	2.79		mg/L		101	85 - 115		
Potassium	ND		10.0	10.3		mg/L		103	85 - 115		

Lab Sample ID: 720-68619-1 MSD

Matrix: Water

Analysis Batch: 192618

Client Sample ID: MW-11R

Prep Type: Total/NA

Prep Batch: 192509

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Manganese	1.8		1.00	2.77		mg/L		100	85 - 115	1	20
Potassium	ND		10.0	10.5		mg/L		105	85 - 115	2	20

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 720-192442/8

Matrix: Water

Analysis Batch: 192442

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			11/11/15 21:06	1

Lab Sample ID: LCS 720-192442/9

Matrix: Water

Analysis Batch: 192442

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ferrous Iron	1.00	0.966		mg/L		97	80 - 120		

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-312751/1-A

Matrix: Water

Analysis Batch: 312922

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 312751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		11/16/15 16:40	11/16/15 19:10	1

Lab Sample ID: LCS 500-312751/2-A

Matrix: Water

Analysis Batch: 312922

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 312751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ammonia	2.50	2.46		mg/L		99	80 - 120		

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 720-192414/7

Matrix: Water

Analysis Batch: 192414

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			11/11/15 15:57	1

Lab Sample ID: LCS 720-192414/8

Matrix: Water

Analysis Batch: 192414

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	0.199		mg/L		99	90 - 110

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

GC/MS VOA

Analysis Batch: 193010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68619-1	MW-11R	Total/NA	Water	8260B/CA_LUFT MS	
720-68619-2	MW-12	Total/NA	Water	8260B/CA_LUFT MS	
720-68619-2 MS	MW-12	Total/NA	Water	8260B/CA_LUFT MS	
720-68619-2 MSD	MW-12	Total/NA	Water	8260B/CA_LUFT MS	
720-68619-3	MW-13	Total/NA	Water	8260B/CA_LUFT MS	
720-68619-4	MW-14	Total/NA	Water	8260B/CA_LUFT MS	
720-68619-5	MW-15	Total/NA	Water	8260B/CA_LUFT MS	
720-68619-6	MW-16	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-193010/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-193010/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-193010/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-193010/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-193010/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

HPLC/IC

Analysis Batch: 192386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68619-1	MW-11R	Total/NA	Water	300.0	
720-68619-2	MW-12	Total/NA	Water	300.0	
720-68619-3	MW-13	Total/NA	Water	300.0	
720-68619-4	MW-14	Total/NA	Water	300.0	
720-68619-5	MW-15	Total/NA	Water	300.0	
720-68619-6	MW-16	Total/NA	Water	300.0	
LCS 720-192386/8	Lab Control Sample	Total/NA	Water	300.0	
MB 720-192386/7	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 192387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68619-1	MW-11R	Total/NA	Water	300.0	
720-68619-2	MW-12	Total/NA	Water	300.0	
720-68619-3	MW-13	Total/NA	Water	300.0	
720-68619-3	MW-13	Total/NA	Water	300.0	
720-68619-4	MW-14	Total/NA	Water	300.0	
720-68619-5	MW-15	Total/NA	Water	300.0	
720-68619-5	MW-15	Total/NA	Water	300.0	
720-68619-6	MW-16	Total/NA	Water	300.0	
LCS 720-192387/8	Lab Control Sample	Total/NA	Water	300.0	
MB 720-192387/7	Method Blank	Total/NA	Water	300.0	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Metals

Prep Batch: 192509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68619-1	MW-11R	Total/NA	Water	200.7	
720-68619-1 MS	MW-11R	Total/NA	Water	200.7	
720-68619-1 MSD	MW-11R	Total/NA	Water	200.7	
720-68619-2	MW-12	Total/NA	Water	200.7	
720-68619-3	MW-13	Total/NA	Water	200.7	
720-68619-4	MW-14	Total/NA	Water	200.7	
720-68619-5	MW-15	Total/NA	Water	200.7	
720-68619-6	MW-16	Total/NA	Water	200.7	
LCS 720-192509/2-B	Lab Control Sample	Total/NA	Water	200.7	
LCSD 720-192509/3-B	Lab Control Sample Dup	Total/NA	Water	200.7	
MB 720-192509/1-B	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 192574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-192509/2-B	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	192509
LCSD 720-192509/3-B	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	192509
MB 720-192509/1-B	Method Blank	Total/NA	Water	200.7 Rev 4.4	192509

Analysis Batch: 192618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68619-1	MW-11R	Total/NA	Water	200.7 Rev 4.4	192509
720-68619-1 MS	MW-11R	Total/NA	Water	200.7 Rev 4.4	192509
720-68619-1 MSD	MW-11R	Total/NA	Water	200.7 Rev 4.4	192509
720-68619-2	MW-12	Total/NA	Water	200.7 Rev 4.4	192509
720-68619-3	MW-13	Total/NA	Water	200.7 Rev 4.4	192509
720-68619-4	MW-14	Total/NA	Water	200.7 Rev 4.4	192509
720-68619-5	MW-15	Total/NA	Water	200.7 Rev 4.4	192509
720-68619-6	MW-16	Total/NA	Water	200.7 Rev 4.4	192509

Analysis Batch: 192695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68619-1 MS	MW-11R	Total/NA	Water	200.7 Rev 4.4	192509
LCS 720-192509/2-B	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	192509
LCSD 720-192509/3-B	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	192509
MB 720-192509/1-B	Method Blank	Total/NA	Water	200.7 Rev 4.4	192509

General Chemistry

Analysis Batch: 192414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68619-1	MW-11R	Total/NA	Water	SM 4500 P E	
720-68619-2	MW-12	Total/NA	Water	SM 4500 P E	
720-68619-3	MW-13	Total/NA	Water	SM 4500 P E	
720-68619-4	MW-14	Total/NA	Water	SM 4500 P E	
720-68619-5	MW-15	Total/NA	Water	SM 4500 P E	
720-68619-6	MW-16	Total/NA	Water	SM 4500 P E	
LCS 720-192414/8	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 720-192414/7	Method Blank	Total/NA	Water	SM 4500 P E	

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

General Chemistry (Continued)

Analysis Batch: 192442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68619-1	MW-11R	Total/NA	Water	SM 3500 Fe B	
720-68619-2	MW-12	Total/NA	Water	SM 3500 Fe B	
720-68619-3	MW-13	Total/NA	Water	SM 3500 Fe B	
720-68619-4	MW-14	Total/NA	Water	SM 3500 Fe B	
720-68619-5	MW-15	Total/NA	Water	SM 3500 Fe B	
720-68619-6	MW-16	Total/NA	Water	SM 3500 Fe B	
LCS 720-192442/9	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	
MB 720-192442/8	Method Blank	Total/NA	Water	SM 3500 Fe B	

Analysis Batch: 192761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68619-1	MW-11R	Total/NA	Water	SM 3500	
720-68619-2	MW-12	Total/NA	Water	SM 3500	
720-68619-3	MW-13	Total/NA	Water	SM 3500	
720-68619-4	MW-14	Total/NA	Water	SM 3500	
720-68619-5	MW-15	Total/NA	Water	SM 3500	
720-68619-6	MW-16	Total/NA	Water	SM 3500	

Prep Batch: 312751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68619-1	MW-11R	Total/NA	Water	SM 4500 NH3 B	
720-68619-2	MW-12	Total/NA	Water	SM 4500 NH3 B	
720-68619-3	MW-13	Total/NA	Water	SM 4500 NH3 B	
720-68619-4	MW-14	Total/NA	Water	SM 4500 NH3 B	
720-68619-5	MW-15	Total/NA	Water	SM 4500 NH3 B	
720-68619-6	MW-16	Total/NA	Water	SM 4500 NH3 B	
LCS 500-312751/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
MB 500-312751/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 312922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68619-1	MW-11R	Total/NA	Water	SM 4500 NH3 G	312751
720-68619-2	MW-12	Total/NA	Water	SM 4500 NH3 G	312751
720-68619-3	MW-13	Total/NA	Water	SM 4500 NH3 G	312751
720-68619-4	MW-14	Total/NA	Water	SM 4500 NH3 G	312751
720-68619-5	MW-15	Total/NA	Water	SM 4500 NH3 G	312751
720-68619-6	MW-16	Total/NA	Water	SM 4500 NH3 G	312751
LCS 500-312751/2-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	312751
MB 500-312751/1-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	312751

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-11R

Date Collected: 11/11/15 13:05

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		100	193010	11/21/15 14:22	PRD	TAL PLS
Total/NA	Analysis	300.0		1	192386	11/11/15 18:28	MJK	TAL PLS
Total/NA	Analysis	300.0		1	192387	11/11/15 18:28	MJK	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192618	11/14/15 00:17	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	192761	11/17/15 15:21	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	192442	11/11/15 22:25	EYT	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			312751	11/16/15 16:40	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	312922	11/16/15 19:58	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	192414	11/11/15 18:20	EYT	TAL PLS

Client Sample ID: MW-12

Date Collected: 11/11/15 12:22

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-2

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	193010	11/21/15 15:50	PRD	TAL PLS
Total/NA	Analysis	300.0		1	192386	11/11/15 19:02	MJK	TAL PLS
Total/NA	Analysis	300.0		1	192387	11/11/15 19:02	MJK	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192618	11/14/15 00:22	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	192761	11/17/15 15:21	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	192442	11/11/15 22:25	EYT	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			312751	11/16/15 16:40	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	312922	11/16/15 20:01	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	192414	11/11/15 18:20	EYT	TAL PLS

Client Sample ID: MW-13

Date Collected: 11/11/15 10:42

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-3

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	193010	11/21/15 16:20	PRD	TAL PLS
Total/NA	Analysis	300.0		1	192387	11/11/15 19:36	MJK	TAL PLS
Total/NA	Analysis	300.0		10	192386	11/11/15 19:54	MJK	TAL PLS
Total/NA	Analysis	300.0		10	192387	11/11/15 19:54	MJK	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192618	11/14/15 00:27	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	192761	11/17/15 15:21	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	192442	11/11/15 22:25	EYT	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			312751	11/16/15 16:40	HMW	TAL CHI

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-13

Date Collected: 11/11/15 10:42

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 G		1	312922	11/16/15 20:04	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	192414	11/11/15 18:20	EYT	TAL PLS

Client Sample ID: MW-14

Date Collected: 11/11/15 11:10

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		50	193010	11/21/15 16:49	PRD	TAL PLS
Total/NA	Analysis	300.0		1	192386	11/11/15 20:11	MJK	TAL PLS
Total/NA	Analysis	300.0		1	192387	11/11/15 20:11	MJK	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192618	11/14/15 00:32	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	192761	11/17/15 15:45	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	192442	11/11/15 22:25	EYT	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			312751	11/16/15 16:40	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	312922	11/16/15 20:07	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	192414	11/11/15 18:20	EYT	TAL PLS

Client Sample ID: MW-15

Date Collected: 11/11/15 14:55

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-5

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	193010	11/21/15 17:18	PRD	TAL PLS
Total/NA	Analysis	300.0		1	192387	11/11/15 20:45	MJK	TAL PLS
Total/NA	Analysis	300.0		10	192386	11/11/15 21:02	MJK	TAL PLS
Total/NA	Analysis	300.0		10	192387	11/11/15 21:02	MJK	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192618	11/14/15 00:37	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	192761	11/17/15 15:45	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	192442	11/11/15 22:25	EYT	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			312751	11/16/15 16:40	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	312922	11/16/15 20:10	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	192414	11/11/15 18:20	EYT	TAL PLS

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Client Sample ID: MW-16

Date Collected: 11/11/15 09:40

Date Received: 11/11/15 16:40

Lab Sample ID: 720-68619-6

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	193010	11/21/15 17:47	PRD	TAL PLS
Total/NA	Analysis	300.0		1	192386	11/11/15 21:53	MJK	TAL PLS
Total/NA	Analysis	300.0		1	192387	11/11/15 21:53	MJK	TAL PLS
Total/NA	Prep	200.7			192509	11/12/15 16:38	EFH	TAL PLS
Total/NA	Analysis	200.7 Rev 4.4		1	192618	11/14/15 00:42	CAM	TAL PLS
Total/NA	Analysis	SM 3500		1	192761	11/17/15 15:45	MJK	TAL PLS
Total/NA	Analysis	SM 3500 Fe B		1	192442	11/11/15 22:25	EYT	TAL PLS
Total/NA	Prep	SM 4500 NH3 B			312751	11/16/15 16:40	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NH3 G		1	312922	11/16/15 20:18	HMW	TAL CHI
Total/NA	Analysis	SM 4500 P E		1	192414	11/11/15 18:20	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: 720-68619-1

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	01-31-16 *
Kentucky (UST)	State Program	4	66	04-30-16
Kentucky (WW)	State Program	4	KY90023	12-31-15 *
Massachusetts	State Program	1	M-IL035	06-30-16
Mississippi	State Program	4	N/A	04-30-16
New York	NELAP	2	IL00035	04-01-16
North Carolina (WW/SW)	State Program	4	291	12-31-15 *
North Dakota	State Program	8	R-194	04-30-16
Oklahoma	State Program	6	8908	08-31-16
South Carolina	State Program	4	77001	04-30-16
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-16
Wyoming	State Program	8	8TMS-Q	04-30-16

* Certification renewal pending - certification considered valid.

TestAmerica Pleasanton

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68619-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS
300.0	Anions, Ion Chromatography	MCAWW	TAL PLS
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PLS
SM 3500	Iron, Ferric	SM	TAL PLS
SM 3500 Fe B	Iron, Ferrous	SM	TAL PLS
SM 4500 NH3 G	Ammonia	SM	TAL CHI
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: 720-68619-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-68619-1	MW-11R	Water	11/11/15 13:05	11/11/15 16:40
720-68619-2	MW-12	Water	11/11/15 12:22	11/11/15 16:40
720-68619-3	MW-13	Water	11/11/15 10:42	11/11/15 16:40
720-68619-4	MW-14	Water	11/11/15 11:10	11/11/15 16:40
720-68619-5	MW-15	Water	11/11/15 14:55	11/11/15 16:40
720-68619-6	MW-16	Water	11/11/15 09:40	11/11/15 16:40

TestAmerica

720-68619

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

Reference #: 16504
Date: 11/14/15 Page 1 of 1

11/23/2015

Report To

Analysis Request

Attn: Peter Sam Company: Ningo and Moor Address: 154 Webster St, Ste 200 Email: peters@ningoandmoor.com Bill To: P. Sam Attn: P. Sam Phone: 510 300 3000		Sampled By: A. D. Dyer Date: 11/11/15 Time: 1305 Mat: 6W 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: potassium permanganate Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199 pH ☐ 8040 ☐ SM4500 ☐ Spec. Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS Anions: ☐ Cl ☐ SO ₄ ☒ NO ₃ ☐ F ☐ Br ☐ NO ₂ ☐ PO ₄ 3000 Ammonia 50450 ☐ Perchlorate by EPA 314.0 COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity Iron Iron by Calc	
Project Name: # Chun PO#: 401896004 Temp: 3.5 °C Credit Card Y/N: If yes, please call with payment information ASAP		Sample Receipt # of Containers: Head Space: Temp: 3.5 °C		1) Relinquished by: [Signature] 1537 Signature: [Signature] Printed Name: Emily Dyer Date: 11-11-15 Company: Ningo and Moor	
T 10 5 4 3 2 1 Other: A Day Day Day Day Day Day Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF Special Instructions / Comments: ☐ Global ID See Terms and Conditions on reverse		2) Relinquished by: [Signature] Signature: [Signature] Printed Name: CHRIS MASTORAS Date: 11-11-15 Company: 1646		3) Received by: [Signature] Signature: [Signature] Printed Name: DENNIS HARRIS Date: 11/11/15 Company:	



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

[illegible]

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)						Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact: Shipping/Receiving						Phone:		Sharma, Dimple				720-26592.1	
Company: TestAmerica Laboratories, Inc.								E-Mail: dimple.sharma@testamericainc.com				Page: Page 1 of 1	
Address: 2417 Bond Street, City: University Park State, Zip: IL, 60484 Phone: 708-534-5200(Tel) 708-534-5211(Fax) Email:						Due Date Requested: 11/17/2015 TAT Requested (days): PO #: WO #: Project #: 72010606 SSOW#:		Analysis Requested		Job #: 720-68619-1		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify) Other:	
Project Name: Chun						Site:		Field Filtered Sample (Yes or No)		Total Number of Containers			
Sample Identification - Client ID (Lab ID)						Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
MW-11R (720-68619-1)						11/11/15		13:05 Pacific		Water		X	
MW-12 (720-68619-2)						11/11/15		12:22 Pacific		Water		X	
MW-13 (720-68619-3)						11/11/15		10:42 Pacific		Water		X	
MW-14 (720-68619-4)						11/11/15		11:10 Pacific		Water		X	
MW-15 (720-68619-5)						11/11/15		14:55 Pacific		Water		X	
MW-16 (720-68619-6)						11/11/15		09:40 Pacific		Water		X	
Possible Hazard Identification						Unconfirmed		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client Disposal By Lab Archive For Months	
Empty Kit Relinquished by:						Date:		Time:		Method of Shipment:			
Relinquished by:						Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:						Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:						Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No						Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68619-1

Login Number: 68619

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

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

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68619-1

Login Number: 68619

List Number: 2

Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

List Creation: 11/13/15 02:30 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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	-0.6
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 $<6\text{mm}$ (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: 720-68196-1

Client Project/Site: Chun

For:

Ninyo & Moore

1956 Webster Street

Suite 400

Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:

10/30/2015 3:12:38 PM

Afsaneh Salimpour, Senior Project Manager

afsaneh.salimpour@testamericainc.com

Designee for

Dimple Sharma, Senior Project Manager

(925)484-1919

dimple.sharma@testamericainc.com

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

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

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Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

Glossary

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

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

Job ID: 720-68196-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-68196-1

Comments

No additional comments.

Receipt

The samples were received on 10/23/2015 4:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° 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: 720-68196-1

Client Sample ID: EFF

Lab Sample ID: 720-68196-1

No Detections.

Client Sample ID: GAC

Lab Sample ID: 720-68196-2

No Detections.

Client Sample ID: INF

Lab Sample ID: 720-68196-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.3		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Benzene	33		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	1.5		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
Chloroform	1.4		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	0.65		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Naphthalene	27		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
Toluene	13		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	51		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	250		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	910		50		ug/L	1			8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

Client Sample ID: EFF
Date Collected: 10/22/15 17:00
Date Received: 10/23/15 16:35

Lab Sample ID: 720-68196-1
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			10/29/15 22:13	1
Acetone	ND		50		ug/L			10/29/15 22:13	1
Benzene	ND		0.50		ug/L			10/29/15 22:13	1
Dichlorobromomethane	ND		0.50		ug/L			10/29/15 22:13	1
Bromobenzene	ND		1.0		ug/L			10/29/15 22:13	1
Chlorobromomethane	ND		1.0		ug/L			10/29/15 22:13	1
Bromoform	ND		1.0		ug/L			10/29/15 22:13	1
Bromomethane	ND		1.0		ug/L			10/29/15 22:13	1
2-Butanone (MEK)	ND		50		ug/L			10/29/15 22:13	1
n-Butylbenzene	ND		1.0		ug/L			10/29/15 22:13	1
sec-Butylbenzene	ND		1.0		ug/L			10/29/15 22:13	1
tert-Butylbenzene	ND		1.0		ug/L			10/29/15 22:13	1
Carbon disulfide	ND		5.0		ug/L			10/29/15 22:13	1
Carbon tetrachloride	ND		0.50		ug/L			10/29/15 22:13	1
Chlorobenzene	ND		0.50		ug/L			10/29/15 22:13	1
Chloroethane	ND		1.0		ug/L			10/29/15 22:13	1
Chloroform	ND		1.0		ug/L			10/29/15 22:13	1
Chloromethane	ND		1.0		ug/L			10/29/15 22:13	1
2-Chlorotoluene	ND		0.50		ug/L			10/29/15 22:13	1
4-Chlorotoluene	ND		0.50		ug/L			10/29/15 22:13	1
Chlorodibromomethane	ND		0.50		ug/L			10/29/15 22:13	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/29/15 22:13	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/29/15 22:13	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/29/15 22:13	1
1,3-Dichloropropane	ND		1.0		ug/L			10/29/15 22:13	1
1,1-Dichloropropene	ND		0.50		ug/L			10/29/15 22:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/29/15 22:13	1
Ethylene Dibromide	ND		0.50		ug/L			10/29/15 22:13	1
Dibromomethane	ND		0.50		ug/L			10/29/15 22:13	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/29/15 22:13	1
1,1-Dichloroethane	ND		0.50		ug/L			10/29/15 22:13	1
1,2-Dichloroethane	ND		0.50		ug/L			10/29/15 22:13	1
1,1-Dichloroethene	ND		0.50		ug/L			10/29/15 22:13	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/29/15 22:13	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/29/15 22:13	1
1,2-Dichloropropane	ND		0.50		ug/L			10/29/15 22:13	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/15 22:13	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/29/15 22:13	1
Ethylbenzene	ND		0.50		ug/L			10/29/15 22:13	1
Hexachlorobutadiene	ND		1.0		ug/L			10/29/15 22:13	1
2-Hexanone	ND		50		ug/L			10/29/15 22:13	1
Isopropylbenzene	ND		0.50		ug/L			10/29/15 22:13	1
4-Isopropyltoluene	ND		1.0		ug/L			10/29/15 22:13	1
Methylene Chloride	ND		5.0		ug/L			10/29/15 22:13	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/29/15 22:13	1
Naphthalene	ND		1.0		ug/L			10/29/15 22:13	1
N-Propylbenzene	ND		1.0		ug/L			10/29/15 22:13	1
Styrene	ND		0.50		ug/L			10/29/15 22:13	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/29/15 22:13	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

Client Sample ID: EFF

Date Collected: 10/22/15 17:00

Date Received: 10/23/15 16:35

Lab Sample ID: 720-68196-1

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			10/29/15 22:13	1
Tetrachloroethene	ND		0.50		ug/L			10/29/15 22:13	1
Toluene	ND		0.50		ug/L			10/29/15 22:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/29/15 22:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/29/15 22:13	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/29/15 22:13	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/29/15 22:13	1
Trichloroethene	ND		0.50		ug/L			10/29/15 22:13	1
Trichlorofluoromethane	ND		1.0		ug/L			10/29/15 22:13	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/29/15 22:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/29/15 22:13	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			10/29/15 22:13	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/29/15 22:13	1
Vinyl acetate	ND		10		ug/L			10/29/15 22:13	1
Vinyl chloride	ND		0.50		ug/L			10/29/15 22:13	1
Xylenes, Total	ND		1.0		ug/L			10/29/15 22:13	1
2,2-Dichloropropane	ND		0.50		ug/L			10/29/15 22:13	1
Gasoline Range Organics (GRO)	ND		50		ug/L			10/29/15 22:13	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		67 - 130					10/29/15 22:13	1
1,2-Dichloroethane-d4 (Surr)	93		72 - 130					10/29/15 22:13	1
Toluene-d8 (Surr)	98		70 - 130					10/29/15 22:13	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

Client Sample ID: GAC

Date Collected: 10/22/15 17:00

Date Received: 10/23/15 16:35

Lab Sample ID: 720-68196-2

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			10/29/15 22:41	1
Acetone	ND		50		ug/L			10/29/15 22:41	1
Benzene	ND		0.50		ug/L			10/29/15 22:41	1
Dichlorobromomethane	ND		0.50		ug/L			10/29/15 22:41	1
Bromobenzene	ND		1.0		ug/L			10/29/15 22:41	1
Chlorobromomethane	ND		1.0		ug/L			10/29/15 22:41	1
Bromoform	ND		1.0		ug/L			10/29/15 22:41	1
Bromomethane	ND		1.0		ug/L			10/29/15 22:41	1
2-Butanone (MEK)	ND		50		ug/L			10/29/15 22:41	1
n-Butylbenzene	ND		1.0		ug/L			10/29/15 22:41	1
sec-Butylbenzene	ND		1.0		ug/L			10/29/15 22:41	1
tert-Butylbenzene	ND		1.0		ug/L			10/29/15 22:41	1
Carbon disulfide	ND		5.0		ug/L			10/29/15 22:41	1
Carbon tetrachloride	ND		0.50		ug/L			10/29/15 22:41	1
Chlorobenzene	ND		0.50		ug/L			10/29/15 22:41	1
Chloroethane	ND		1.0		ug/L			10/29/15 22:41	1
Chloroform	ND		1.0		ug/L			10/29/15 22:41	1
Chloromethane	ND		1.0		ug/L			10/29/15 22:41	1
2-Chlorotoluene	ND		0.50		ug/L			10/29/15 22:41	1
4-Chlorotoluene	ND		0.50		ug/L			10/29/15 22:41	1
Chlorodibromomethane	ND		0.50		ug/L			10/29/15 22:41	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/29/15 22:41	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/29/15 22:41	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/29/15 22:41	1
1,3-Dichloropropane	ND		1.0		ug/L			10/29/15 22:41	1
1,1-Dichloropropene	ND		0.50		ug/L			10/29/15 22:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/29/15 22:41	1
Ethylene Dibromide	ND		0.50		ug/L			10/29/15 22:41	1
Dibromomethane	ND		0.50		ug/L			10/29/15 22:41	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/29/15 22:41	1
1,1-Dichloroethane	ND		0.50		ug/L			10/29/15 22:41	1
1,2-Dichloroethane	ND		0.50		ug/L			10/29/15 22:41	1
1,1-Dichloroethene	ND		0.50		ug/L			10/29/15 22:41	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/29/15 22:41	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/29/15 22:41	1
1,2-Dichloropropane	ND		0.50		ug/L			10/29/15 22:41	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/15 22:41	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/29/15 22:41	1
Ethylbenzene	ND		0.50		ug/L			10/29/15 22:41	1
Hexachlorobutadiene	ND		1.0		ug/L			10/29/15 22:41	1
2-Hexanone	ND		50		ug/L			10/29/15 22:41	1
Isopropylbenzene	ND		0.50		ug/L			10/29/15 22:41	1
4-Isopropyltoluene	ND		1.0		ug/L			10/29/15 22:41	1
Methylene Chloride	ND		5.0		ug/L			10/29/15 22:41	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/29/15 22:41	1
Naphthalene	ND		1.0		ug/L			10/29/15 22:41	1
N-Propylbenzene	ND		1.0		ug/L			10/29/15 22:41	1
Styrene	ND		0.50		ug/L			10/29/15 22:41	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/29/15 22:41	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

Client Sample ID: GAC

Date Collected: 10/22/15 17:00

Date Received: 10/23/15 16:35

Lab Sample ID: 720-68196-2

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			10/29/15 22:41	1
Tetrachloroethene	ND		0.50		ug/L			10/29/15 22:41	1
Toluene	ND		0.50		ug/L			10/29/15 22:41	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/29/15 22:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/29/15 22:41	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/29/15 22:41	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/29/15 22:41	1
Trichloroethene	ND		0.50		ug/L			10/29/15 22:41	1
Trichlorofluoromethane	ND		1.0		ug/L			10/29/15 22:41	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/29/15 22:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/29/15 22:41	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			10/29/15 22:41	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/29/15 22:41	1
Vinyl acetate	ND		10		ug/L			10/29/15 22:41	1
Vinyl chloride	ND		0.50		ug/L			10/29/15 22:41	1
Xylenes, Total	ND		1.0		ug/L			10/29/15 22:41	1
2,2-Dichloropropane	ND		0.50		ug/L			10/29/15 22:41	1
Gasoline Range Organics (GRO)	ND		50		ug/L			10/29/15 22:41	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		67 - 130					10/29/15 22:41	1
1,2-Dichloroethane-d4 (Surr)	100		72 - 130					10/29/15 22:41	1
Toluene-d8 (Surr)	97		70 - 130					10/29/15 22:41	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

Client Sample ID: INF

Date Collected: 10/22/15 17:00

Date Received: 10/23/15 16:35

Lab Sample ID: 720-68196-3

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	1.3		0.50		ug/L			10/29/15 23:09	1
Acetone	ND		50		ug/L			10/29/15 23:09	1
Benzene	33		0.50		ug/L			10/29/15 23:09	1
Dichlorobromomethane	ND		0.50		ug/L			10/29/15 23:09	1
Bromobenzene	ND		1.0		ug/L			10/29/15 23:09	1
Chlorobromomethane	ND		1.0		ug/L			10/29/15 23:09	1
Bromoform	ND		1.0		ug/L			10/29/15 23:09	1
Bromomethane	ND		1.0		ug/L			10/29/15 23:09	1
2-Butanone (MEK)	ND		50		ug/L			10/29/15 23:09	1
n-Butylbenzene	1.5		1.0		ug/L			10/29/15 23:09	1
sec-Butylbenzene	ND		1.0		ug/L			10/29/15 23:09	1
tert-Butylbenzene	ND		1.0		ug/L			10/29/15 23:09	1
Carbon disulfide	ND		5.0		ug/L			10/29/15 23:09	1
Carbon tetrachloride	ND		0.50		ug/L			10/29/15 23:09	1
Chlorobenzene	ND		0.50		ug/L			10/29/15 23:09	1
Chloroethane	ND		1.0		ug/L			10/29/15 23:09	1
Chloroform	1.4		1.0		ug/L			10/29/15 23:09	1
Chloromethane	ND		1.0		ug/L			10/29/15 23:09	1
2-Chlorotoluene	ND		0.50		ug/L			10/29/15 23:09	1
4-Chlorotoluene	ND		0.50		ug/L			10/29/15 23:09	1
Chlorodibromomethane	ND		0.50		ug/L			10/29/15 23:09	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/29/15 23:09	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/29/15 23:09	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/29/15 23:09	1
1,3-Dichloropropane	ND		1.0		ug/L			10/29/15 23:09	1
1,1-Dichloropropane	ND		0.50		ug/L			10/29/15 23:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/29/15 23:09	1
Ethylene Dibromide	ND		0.50		ug/L			10/29/15 23:09	1
Dibromomethane	ND		0.50		ug/L			10/29/15 23:09	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/29/15 23:09	1
1,1-Dichloroethane	ND		0.50		ug/L			10/29/15 23:09	1
1,2-Dichloroethane	0.65		0.50		ug/L			10/29/15 23:09	1
1,1-Dichloroethene	ND		0.50		ug/L			10/29/15 23:09	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/29/15 23:09	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/29/15 23:09	1
1,2-Dichloropropane	ND		0.50		ug/L			10/29/15 23:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/15 23:09	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/29/15 23:09	1
Ethylbenzene	ND		0.50		ug/L			10/29/15 23:09	1
Hexachlorobutadiene	ND		1.0		ug/L			10/29/15 23:09	1
2-Hexanone	ND		50		ug/L			10/29/15 23:09	1
Isopropylbenzene	ND		0.50		ug/L			10/29/15 23:09	1
4-Isopropyltoluene	ND		1.0		ug/L			10/29/15 23:09	1
Methylene Chloride	ND		5.0		ug/L			10/29/15 23:09	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/29/15 23:09	1
Naphthalene	27		1.0		ug/L			10/29/15 23:09	1
N-Propylbenzene	ND		1.0		ug/L			10/29/15 23:09	1
Styrene	ND		0.50		ug/L			10/29/15 23:09	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/29/15 23:09	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

Client Sample ID: INF

Date Collected: 10/22/15 17:00

Date Received: 10/23/15 16:35

Lab Sample ID: 720-68196-3

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			10/29/15 23:09	1
Tetrachloroethene	ND		0.50		ug/L			10/29/15 23:09	1
Toluene	13		0.50		ug/L			10/29/15 23:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/29/15 23:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/29/15 23:09	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/29/15 23:09	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/29/15 23:09	1
Trichloroethene	ND		0.50		ug/L			10/29/15 23:09	1
Trichlorofluoromethane	ND		1.0		ug/L			10/29/15 23:09	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/29/15 23:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/29/15 23:09	1
1,2,4-Trimethylbenzene	51		0.50		ug/L			10/29/15 23:09	1
1,3,5-Trimethylbenzene	30		0.50		ug/L			10/29/15 23:09	1
Vinyl acetate	ND		10		ug/L			10/29/15 23:09	1
Vinyl chloride	ND		0.50		ug/L			10/29/15 23:09	1
Xylenes, Total	250		1.0		ug/L			10/29/15 23:09	1
2,2-Dichloropropane	ND		0.50		ug/L			10/29/15 23:09	1
Gasoline Range Organics (GRO)	910		50		ug/L			10/29/15 23:09	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		67 - 130					10/29/15 23:09	1
1,2-Dichloroethane-d4 (Surr)	103		72 - 130					10/29/15 23:09	1
Toluene-d8 (Surr)	101		70 - 130					10/29/15 23:09	1

TestAmerica Pleasanton

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (67-130)	12DCE (72-130)	TOL (70-130)
720-68196-1	EFF	96	93	98
720-68196-2	GAC	96	100	97
720-68196-3	INF	104	103	101
LCS 720-191632/5	Lab Control Sample	103	87	99
LCS 720-191632/7	Lab Control Sample	101	89	98
LCSD 720-191632/6	Lab Control Sample Dup	99	87	99
LCSD 720-191632/8	Lab Control Sample Dup	100	92	98
MB 720-191632/4	Method Blank	97	91	95

Surrogate Legend

BFB = 4-Bromofluorobenzene

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

TOL = Toluene-d8 (Surr)

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

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

Lab Sample ID: MB 720-191632/4

Matrix: Water

Analysis Batch: 191632

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			10/29/15 16:52	1
Acetone	ND		50		ug/L			10/29/15 16:52	1
Benzene	ND		0.50		ug/L			10/29/15 16:52	1
Dichlorobromomethane	ND		0.50		ug/L			10/29/15 16:52	1
Bromobenzene	ND		1.0		ug/L			10/29/15 16:52	1
Chlorobromomethane	ND		1.0		ug/L			10/29/15 16:52	1
Bromoform	ND		1.0		ug/L			10/29/15 16:52	1
Bromomethane	ND		1.0		ug/L			10/29/15 16:52	1
2-Butanone (MEK)	ND		50		ug/L			10/29/15 16:52	1
n-Butylbenzene	ND		1.0		ug/L			10/29/15 16:52	1
sec-Butylbenzene	ND		1.0		ug/L			10/29/15 16:52	1
tert-Butylbenzene	ND		1.0		ug/L			10/29/15 16:52	1
Carbon disulfide	ND		5.0		ug/L			10/29/15 16:52	1
Carbon tetrachloride	ND		0.50		ug/L			10/29/15 16:52	1
Chlorobenzene	ND		0.50		ug/L			10/29/15 16:52	1
Chloroethane	ND		1.0		ug/L			10/29/15 16:52	1
Chloroform	ND		1.0		ug/L			10/29/15 16:52	1
Chloromethane	ND		1.0		ug/L			10/29/15 16:52	1
2-Chlorotoluene	ND		0.50		ug/L			10/29/15 16:52	1
4-Chlorotoluene	ND		0.50		ug/L			10/29/15 16:52	1
Chlorodibromomethane	ND		0.50		ug/L			10/29/15 16:52	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/29/15 16:52	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/29/15 16:52	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/29/15 16:52	1
1,3-Dichloropropane	ND		1.0		ug/L			10/29/15 16:52	1
1,1-Dichloropropene	ND		0.50		ug/L			10/29/15 16:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/29/15 16:52	1
Ethylene Dibromide	ND		0.50		ug/L			10/29/15 16:52	1
Dibromomethane	ND		0.50		ug/L			10/29/15 16:52	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/29/15 16:52	1
1,1-Dichloroethane	ND		0.50		ug/L			10/29/15 16:52	1
1,2-Dichloroethane	ND		0.50		ug/L			10/29/15 16:52	1
1,1-Dichloroethene	ND		0.50		ug/L			10/29/15 16:52	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/29/15 16:52	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/29/15 16:52	1
1,2-Dichloropropane	ND		0.50		ug/L			10/29/15 16:52	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/15 16:52	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/29/15 16:52	1
Ethylbenzene	ND		0.50		ug/L			10/29/15 16:52	1
Hexachlorobutadiene	ND		1.0		ug/L			10/29/15 16:52	1
2-Hexanone	ND		50		ug/L			10/29/15 16:52	1
Isopropylbenzene	ND		0.50		ug/L			10/29/15 16:52	1
4-Isopropyltoluene	ND		1.0		ug/L			10/29/15 16:52	1
Methylene Chloride	ND		5.0		ug/L			10/29/15 16:52	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/29/15 16:52	1
Naphthalene	ND		1.0		ug/L			10/29/15 16:52	1
N-Propylbenzene	ND		1.0		ug/L			10/29/15 16:52	1
Styrene	ND		0.50		ug/L			10/29/15 16:52	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

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

Lab Sample ID: MB 720-191632/4

Matrix: Water

Analysis Batch: 191632

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			10/29/15 16:52	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/29/15 16:52	1
Tetrachloroethene	ND		0.50		ug/L			10/29/15 16:52	1
Toluene	ND		0.50		ug/L			10/29/15 16:52	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/29/15 16:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/29/15 16:52	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/29/15 16:52	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/29/15 16:52	1
Trichloroethene	ND		0.50		ug/L			10/29/15 16:52	1
Trichlorofluoromethane	ND		1.0		ug/L			10/29/15 16:52	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/29/15 16:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/29/15 16:52	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			10/29/15 16:52	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/29/15 16:52	1
Vinyl acetate	ND		10		ug/L			10/29/15 16:52	1
Vinyl chloride	ND		0.50		ug/L			10/29/15 16:52	1
Xylenes, Total	ND		1.0		ug/L			10/29/15 16:52	1
2,2-Dichloropropane	ND		0.50		ug/L			10/29/15 16:52	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/29/15 16:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130		10/29/15 16:52	1
1,2-Dichloroethane-d4 (Surr)	91		72 - 130		10/29/15 16:52	1
Toluene-d8 (Surr)	95		70 - 130		10/29/15 16:52	1

Lab Sample ID: LCS 720-191632/5

Matrix: Water

Analysis Batch: 191632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.7		ug/L		99	62 - 130
Acetone	125	142		ug/L		114	26 - 180
Benzene	25.0	25.3		ug/L		101	79 - 130
Dichlorobromomethane	25.0	26.1		ug/L		104	70 - 130
Bromobenzene	25.0	25.6		ug/L		103	70 - 130
Chlorobromomethane	25.0	25.5		ug/L		102	70 - 130
Bromoform	25.0	29.9		ug/L		120	68 - 136
Bromomethane	25.0	29.1		ug/L		116	43 - 151
2-Butanone (MEK)	125	134		ug/L		107	54 - 130
n-Butylbenzene	25.0	27.0		ug/L		108	70 - 142
sec-Butylbenzene	25.0	27.5		ug/L		110	70 - 134
tert-Butylbenzene	25.0	26.7		ug/L		107	70 - 135
Carbon disulfide	25.0	20.9		ug/L		84	58 - 130
Carbon tetrachloride	25.0	25.4		ug/L		102	70 - 146
Chlorobenzene	25.0	25.9		ug/L		104	70 - 130
Chloroethane	25.0	29.0		ug/L		116	62 - 138
Chloroform	25.0	25.2		ug/L		101	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

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

Lab Sample ID: LCS 720-191632/5

Matrix: Water

Analysis Batch: 191632

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	25.3		ug/L		101	52 - 175
2-Chlorotoluene	25.0	25.9		ug/L		104	70 - 130
4-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130
Chlorodibromomethane	25.0	26.3		ug/L		105	70 - 145
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,4-Dichlorobenzene	25.0	24.6		ug/L		99	70 - 130
1,3-Dichloropropane	25.0	25.8		ug/L		103	70 - 130
1,1-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	27.0		ug/L		108	70 - 136
Ethylene Dibromide	25.0	26.8		ug/L		107	70 - 130
Dibromomethane	25.0	25.4		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	26.2		ug/L		105	34 - 132
1,1-Dichloroethane	25.0	25.2		ug/L		101	70 - 130
1,2-Dichloroethane	25.0	22.7		ug/L		91	61 - 132
1,1-Dichloroethene	25.0	23.1		ug/L		92	64 - 128
cis-1,2-Dichloroethene	25.0	24.9		ug/L		99	70 - 130
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	68 - 130
1,2-Dichloropropane	25.0	26.3		ug/L		105	70 - 130
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 130
trans-1,3-Dichloropropene	25.0	26.9		ug/L		107	70 - 140
Ethylbenzene	25.0	26.0		ug/L		104	80 - 120
Hexachlorobutadiene	25.0	23.9		ug/L		95	70 - 130
2-Hexanone	125	117		ug/L		94	60 - 164
Isopropylbenzene	25.0	27.1		ug/L		108	70 - 130
4-Isopropyltoluene	25.0	26.6		ug/L		107	70 - 130
Methylene Chloride	25.0	26.0		ug/L		104	70 - 147
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	58 - 130
Naphthalene	25.0	26.7		ug/L		107	70 - 130
N-Propylbenzene	25.0	27.0		ug/L		108	70 - 130
Styrene	25.0	26.3		ug/L		105	70 - 130
1,1,1,2-Tetrachloroethane	25.0	26.1		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	25.0	28.7		ug/L		115	70 - 130
Tetrachloroethene	25.0	25.2		ug/L		101	70 - 130
Toluene	25.0	26.2		ug/L		105	78 - 120
1,2,3-Trichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	25.0	24.6		ug/L		98	70 - 130
1,1,1-Trichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1,2-Trichloroethane	25.0	27.7		ug/L		111	70 - 130
Trichloroethene	25.0	25.8		ug/L		103	70 - 130
Trichlorofluoromethane	25.0	26.3		ug/L		105	66 - 132
1,2,3-Trichloropropane	25.0	29.0		ug/L		116	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.6		ug/L		94	42 - 162
1,2,4-Trimethylbenzene	25.0	26.5		ug/L		106	70 - 132
1,3,5-Trimethylbenzene	25.0	26.4		ug/L		106	70 - 130
Vinyl acetate	25.0	17.6		ug/L		70	43 - 163
Vinyl chloride	25.0	28.4		ug/L		113	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

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

Lab Sample ID: LCS 720-191632/5

Matrix: Water

Analysis Batch: 191632

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	25.9		ug/L		104	70 - 142
o-Xylene	25.0	25.5		ug/L		102	70 - 130
2,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	87		72 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCS 720-191632/7

Matrix: Water

Analysis Batch: 191632

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)	500	478		ug/L		96	62 - 120
-C5-C12							

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	89		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 720-191632/6

Matrix: Water

Analysis Batch: 191632

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	25.1		ug/L		100	62 - 130	2	20
Acetone	125	143		ug/L		115	26 - 180	1	30
Benzene	25.0	25.2		ug/L		101	79 - 130	0	20
Dichlorobromomethane	25.0	26.1		ug/L		104	70 - 130	0	20
Bromobenzene	25.0	25.9		ug/L		104	70 - 130	1	20
Chlorobromomethane	25.0	25.4		ug/L		101	70 - 130	1	20
Bromoform	25.0	28.4		ug/L		113	68 - 136	5	20
Bromomethane	25.0	28.9		ug/L		116	43 - 151	0	20
2-Butanone (MEK)	125	135		ug/L		108	54 - 130	1	20
n-Butylbenzene	25.0	27.0		ug/L		108	70 - 142	0	20
sec-Butylbenzene	25.0	27.2		ug/L		109	70 - 134	1	20
tert-Butylbenzene	25.0	26.5		ug/L		106	70 - 135	1	20
Carbon disulfide	25.0	20.7		ug/L		83	58 - 130	1	20
Carbon tetrachloride	25.0	25.0		ug/L		100	70 - 146	1	20
Chlorobenzene	25.0	25.3		ug/L		101	70 - 130	2	20
Chloroethane	25.0	28.7		ug/L		115	62 - 138	1	20
Chloroform	25.0	25.2		ug/L		101	70 - 130	0	20
Chloromethane	25.0	26.0		ug/L		104	52 - 175	3	20
2-Chlorotoluene	25.0	25.9		ug/L		104	70 - 130	0	20
4-Chlorotoluene	25.0	25.9		ug/L		104	70 - 130	1	20
Chlorodibromomethane	25.0	26.2		ug/L		105	70 - 145	0	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

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

Lab Sample ID: LCSD 720-191632/6

Matrix: Water

Analysis Batch: 191632

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	24.6		ug/L		98	70 - 130	0	20
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130	1	20
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130	0	20
1,3-Dichloropropane	25.0	25.8		ug/L		103	70 - 130	0	20
1,1-Dichloropropene	25.0	25.6		ug/L		102	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	27.3		ug/L		109	70 - 136	1	20
Ethylene Dibromide	25.0	27.1		ug/L		108	70 - 130	1	20
Dibromomethane	25.0	25.7		ug/L		103	70 - 130	1	20
Dichlorodifluoromethane	25.0	25.8		ug/L		103	34 - 132	2	20
1,1-Dichloroethane	25.0	25.3		ug/L		101	70 - 130	0	20
1,2-Dichloroethane	25.0	22.5		ug/L		90	61 - 132	1	20
1,1-Dichloroethene	25.0	22.4		ug/L		90	64 - 128	3	20
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	68 - 130	0	20
1,2-Dichloropropane	25.0	26.4		ug/L		106	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	26.0		ug/L		104	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	27.5		ug/L		110	70 - 140	2	20
Ethylbenzene	25.0	25.6		ug/L		102	80 - 120	2	20
Hexachlorobutadiene	25.0	23.8		ug/L		95	70 - 130	0	20
2-Hexanone	125	118		ug/L		94	60 - 164	1	20
Isopropylbenzene	25.0	26.3		ug/L		105	70 - 130	3	20
4-Isopropyltoluene	25.0	26.4		ug/L		106	70 - 130	1	20
Methylene Chloride	25.0	25.5		ug/L		102	70 - 147	2	20
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		97	58 - 130	1	20
Naphthalene	25.0	26.9		ug/L		108	70 - 130	1	20
N-Propylbenzene	25.0	27.2		ug/L		109	70 - 130	0	20
Styrene	25.0	25.9		ug/L		103	70 - 130	2	20
1,1,1,2-Tetrachloroethane	25.0	25.3		ug/L		101	70 - 130	3	20
1,1,2,2-Tetrachloroethane	25.0	28.6		ug/L		114	70 - 130	0	20
Tetrachloroethene	25.0	25.0		ug/L		100	70 - 130	1	20
Toluene	25.0	25.6		ug/L		103	78 - 120	2	20
1,2,3-Trichlorobenzene	25.0	24.8		ug/L		99	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	24.8		ug/L		99	70 - 130	1	20
1,1,1-Trichloroethane	25.0	24.3		ug/L		97	70 - 130	2	20
1,1,2-Trichloroethane	25.0	27.9		ug/L		112	70 - 130	1	20
Trichloroethene	25.0	25.7		ug/L		103	70 - 130	0	20
Trichlorofluoromethane	25.0	25.8		ug/L		103	66 - 132	2	20
1,2,3-Trichloropropane	25.0	28.9		ug/L		116	70 - 130	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.7		ug/L		91	42 - 162	4	20
1,2,4-Trimethylbenzene	25.0	26.3		ug/L		105	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	26.4		ug/L		106	70 - 130	0	20
Vinyl acetate	25.0	17.6		ug/L		71	43 - 163	0	20
Vinyl chloride	25.0	27.7		ug/L		111	54 - 135	2	20
m-Xylene & p-Xylene	25.0	25.0		ug/L		100	70 - 142	3	20
o-Xylene	25.0	24.8		ug/L		99	70 - 130	3	20
2,2-Dichloropropane	25.0	24.0		ug/L		96	70 - 140	4	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

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

Lab Sample ID: LCSD 720-191632/6

Matrix: Water

Analysis Batch: 191632

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

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

Lab Sample ID: LCSD 720-191632/8

Matrix: Water

Analysis Batch: 191632

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)	500	463		ug/L		93	62 - 120	3	20
-C5-C12									

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	92		72 - 130
Toluene-d8 (Surr)	98		70 - 130

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

GC/MS VOA

Analysis Batch: 191632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68196-1	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-68196-2	GAC	Total/NA	Water	8260B/CA_LUFT MS	
720-68196-3	INF	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-191632/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-191632/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-191632/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-191632/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-191632/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

Client Sample ID: EFF

Date Collected: 10/22/15 17:00

Date Received: 10/23/15 16:35

Lab Sample ID: 720-68196-1

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	191632	10/29/15 22:13	PRD	TAL PLS

Client Sample ID: GAC

Date Collected: 10/22/15 17:00

Date Received: 10/23/15 16:35

Lab Sample ID: 720-68196-2

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	191632	10/29/15 22:41	PRD	TAL PLS

Client Sample ID: INF

Date Collected: 10/22/15 17:00

Date Received: 10/23/15 16:35

Lab Sample ID: 720-68196-3

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	191632	10/29/15 23:09	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: 720-68196-1

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: 720-68196-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68196-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-68196-1	EFF	Water	10/22/15 17:00	10/23/15 16:35
720-68196-2	GAC	Water	10/22/15 17:00	10/23/15 16:35
720-68196-3	INF	Water	10/22/15 17:00	10/23/15 16:35

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

720-68196
TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 164593

Date 10/22/15 Page 1 of 1

Report To

Analysis Request

Attn: Peter Sims

Company: Ningo + Moore

Address: 1950 Webster St, Ste 400

Email: psims@ningoandmoore.com

Bill To: Ningo Sampled By: CEPD

Attn: P Sims Phone: 510 3433000

Sample ID Date Time Mat Press

GFF 10/22 1700 Gw Hcl
GAC 1700
INF 1700

Volatile Organics GC/MS (VOCs)
☒ EPA 8260B
HVOCS by ☐ EPA 8260B

EPA 8260B: ☐ Gas ☐ BTEX
☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol

TEPH EPA 8016B ☐ 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 ☐ SO₄ ☐ NO₃ ☐ F
☐ Br ☐ NO₂ ☐ PO₄

☐ Perchlorate by EPA 314 0

COD ☐ EPA 410.4 ☐ SM5220D
☐ Turbidity

Number of Containers

Project Info

Project Name/ #:

of Containers:

PO#: 401890004

Head Space:

Credit Card

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

T 10 5 4 3 2 1 Other:
A Day Day Day Day Day Day
T Day Day Day Day Day Day

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

See Terms and Conditions on reverse

1) Relinquished by:

Signature: [Signature] Time: 1740

Printed Name: Emily D. [Name] Date: 10/22

Company: Ningo and Moore

2) Relinquished by:

Signature: [Signature] Time: 15:07

Printed Name: Jason Grant Date: 10/23/15

Company: Ningo + Moore

3) Relinquished by:

Signature: [Signature] Time: 16:35

Printed Name: Victor Ramo Date: 10/23/15

Company: Ningo + Moore

Signature: [Signature] Time: 1740

Printed Name: Jason Grant Date: 10/22/15

Company: Ningo + Moore

Signature: [Signature] Time: 15:07

Printed Name: Victor Ramo Date: 10/23/15

Company: Ningo + Moore

Signature: [Signature] Time: 16:35

Printed Name: Victor Ramo Date: 10/23/15

Company: Ningo + Moore

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68196-1

Login Number: 68196

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Arauz, Dennis

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-68747-1

Client Project/Site: Chun

For:

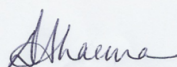
Ninyo & Moore

1956 Webster Street

Suite 400

Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:

11/25/2015 4:13:28 PM

Dimple Sharma, Senior Project Manager

(925)484-1919

dimple.sharma@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

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

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Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

Qualifiers

GC/MS VOA

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

Glossary

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

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

Job ID: 720-68747-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-68747-1

Comments

No additional comments.

Receipt

The samples were received on 11/19/2015 4:51 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 720-193113 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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: 720-68747-1

Client Sample ID: EFF

Lab Sample ID: 720-68747-1

No Detections.

Client Sample ID: GAC

Lab Sample ID: 720-68747-2

No Detections.

Client Sample ID: INF

Lab Sample ID: 720-68747-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.89		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Benzene	17		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	1.2		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
Naphthalene	15		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
Toluene	12		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	20		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	22		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Xylenes, Total	160		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	650		50		ug/L	1			8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

Client Sample ID: EFF

Date Collected: 11/19/15 09:15

Date Received: 11/19/15 16:51

Lab Sample ID: 720-68747-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/24/15 13:05	1
Acetone	ND		50		ug/L			11/24/15 13:05	1
Benzene	ND		0.50		ug/L			11/24/15 13:05	1
Dichlorobromomethane	ND		0.50		ug/L			11/24/15 13:05	1
Bromobenzene	ND		1.0		ug/L			11/24/15 13:05	1
Chlorobromomethane	ND		1.0		ug/L			11/24/15 13:05	1
Bromoform	ND		1.0		ug/L			11/24/15 13:05	1
Bromomethane	ND		1.0		ug/L			11/24/15 13:05	1
2-Butanone (MEK)	ND		50		ug/L			11/24/15 13:05	1
n-Butylbenzene	ND		1.0		ug/L			11/24/15 13:05	1
sec-Butylbenzene	ND		1.0		ug/L			11/24/15 13:05	1
tert-Butylbenzene	ND		1.0		ug/L			11/24/15 13:05	1
Carbon disulfide	ND		5.0		ug/L			11/24/15 13:05	1
Carbon tetrachloride	ND		0.50		ug/L			11/24/15 13:05	1
Chlorobenzene	ND		0.50		ug/L			11/24/15 13:05	1
Chloroethane	ND		1.0		ug/L			11/24/15 13:05	1
Chloroform	ND		1.0		ug/L			11/24/15 13:05	1
Chloromethane	ND		1.0		ug/L			11/24/15 13:05	1
2-Chlorotoluene	ND		0.50		ug/L			11/24/15 13:05	1
4-Chlorotoluene	ND		0.50		ug/L			11/24/15 13:05	1
Chlorodibromomethane	ND		0.50		ug/L			11/24/15 13:05	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/24/15 13:05	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/24/15 13:05	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/24/15 13:05	1
1,3-Dichloropropane	ND		1.0		ug/L			11/24/15 13:05	1
1,1-Dichloropropene	ND		0.50		ug/L			11/24/15 13:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/24/15 13:05	1
Ethylene Dibromide	ND		0.50		ug/L			11/24/15 13:05	1
Dibromomethane	ND		0.50		ug/L			11/24/15 13:05	1
Dichlorodifluoromethane	ND *		0.50		ug/L			11/24/15 13:05	1
1,1-Dichloroethane	ND		0.50		ug/L			11/24/15 13:05	1
1,2-Dichloroethane	ND		0.50		ug/L			11/24/15 13:05	1
1,1-Dichloroethene	ND		0.50		ug/L			11/24/15 13:05	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/24/15 13:05	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/24/15 13:05	1
1,2-Dichloropropane	ND		0.50		ug/L			11/24/15 13:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/24/15 13:05	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/24/15 13:05	1
Ethylbenzene	ND		0.50		ug/L			11/24/15 13:05	1
Hexachlorobutadiene	ND		1.0		ug/L			11/24/15 13:05	1
2-Hexanone	ND		50		ug/L			11/24/15 13:05	1
Isopropylbenzene	ND		0.50		ug/L			11/24/15 13:05	1
4-Isopropyltoluene	ND		1.0		ug/L			11/24/15 13:05	1
Methylene Chloride	ND		5.0		ug/L			11/24/15 13:05	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/24/15 13:05	1
Naphthalene	ND		1.0		ug/L			11/24/15 13:05	1
N-Propylbenzene	ND		1.0		ug/L			11/24/15 13:05	1
Styrene	ND		0.50		ug/L			11/24/15 13:05	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/24/15 13:05	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

Client Sample ID: EFF

Date Collected: 11/19/15 09:15

Date Received: 11/19/15 16:51

Lab Sample ID: 720-68747-1

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			11/24/15 13:05	1
Tetrachloroethene	ND		0.50		ug/L			11/24/15 13:05	1
Toluene	ND		0.50		ug/L			11/24/15 13:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/24/15 13:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/24/15 13:05	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/24/15 13:05	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/24/15 13:05	1
Trichloroethene	ND		0.50		ug/L			11/24/15 13:05	1
Trichlorofluoromethane	ND		1.0		ug/L			11/24/15 13:05	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/24/15 13:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/24/15 13:05	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/24/15 13:05	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/24/15 13:05	1
Vinyl acetate	ND		10		ug/L			11/24/15 13:05	1
Vinyl chloride	ND		0.50		ug/L			11/24/15 13:05	1
Xylenes, Total	ND		1.0		ug/L			11/24/15 13:05	1
2,2-Dichloropropane	ND		0.50		ug/L			11/24/15 13:05	1
Gasoline Range Organics (GRO)	ND		50		ug/L			11/24/15 13:05	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	85		67 - 130					11/24/15 13:05	1
1,2-Dichloroethane-d4 (Surr)	88		72 - 130					11/24/15 13:05	1
Toluene-d8 (Surr)	82		70 - 130					11/24/15 13:05	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

Client Sample ID: GAC

Date Collected: 11/19/15 09:16

Date Received: 11/19/15 16:51

Lab Sample ID: 720-68747-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/24/15 13:32	1
Acetone	ND		50		ug/L			11/24/15 13:32	1
Benzene	ND		0.50		ug/L			11/24/15 13:32	1
Dichlorobromomethane	ND		0.50		ug/L			11/24/15 13:32	1
Bromobenzene	ND		1.0		ug/L			11/24/15 13:32	1
Chlorobromomethane	ND		1.0		ug/L			11/24/15 13:32	1
Bromoform	ND		1.0		ug/L			11/24/15 13:32	1
Bromomethane	ND		1.0		ug/L			11/24/15 13:32	1
2-Butanone (MEK)	ND		50		ug/L			11/24/15 13:32	1
n-Butylbenzene	ND		1.0		ug/L			11/24/15 13:32	1
sec-Butylbenzene	ND		1.0		ug/L			11/24/15 13:32	1
tert-Butylbenzene	ND		1.0		ug/L			11/24/15 13:32	1
Carbon disulfide	ND		5.0		ug/L			11/24/15 13:32	1
Carbon tetrachloride	ND		0.50		ug/L			11/24/15 13:32	1
Chlorobenzene	ND		0.50		ug/L			11/24/15 13:32	1
Chloroethane	ND		1.0		ug/L			11/24/15 13:32	1
Chloroform	ND		1.0		ug/L			11/24/15 13:32	1
Chloromethane	ND		1.0		ug/L			11/24/15 13:32	1
2-Chlorotoluene	ND		0.50		ug/L			11/24/15 13:32	1
4-Chlorotoluene	ND		0.50		ug/L			11/24/15 13:32	1
Chlorodibromomethane	ND		0.50		ug/L			11/24/15 13:32	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/24/15 13:32	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/24/15 13:32	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/24/15 13:32	1
1,3-Dichloropropane	ND		1.0		ug/L			11/24/15 13:32	1
1,1-Dichloropropene	ND		0.50		ug/L			11/24/15 13:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/24/15 13:32	1
Ethylene Dibromide	ND		0.50		ug/L			11/24/15 13:32	1
Dibromomethane	ND		0.50		ug/L			11/24/15 13:32	1
Dichlorodifluoromethane	ND *		0.50		ug/L			11/24/15 13:32	1
1,1-Dichloroethane	ND		0.50		ug/L			11/24/15 13:32	1
1,2-Dichloroethane	ND		0.50		ug/L			11/24/15 13:32	1
1,1-Dichloroethene	ND		0.50		ug/L			11/24/15 13:32	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/24/15 13:32	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/24/15 13:32	1
1,2-Dichloropropane	ND		0.50		ug/L			11/24/15 13:32	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/24/15 13:32	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/24/15 13:32	1
Ethylbenzene	ND		0.50		ug/L			11/24/15 13:32	1
Hexachlorobutadiene	ND		1.0		ug/L			11/24/15 13:32	1
2-Hexanone	ND		50		ug/L			11/24/15 13:32	1
Isopropylbenzene	ND		0.50		ug/L			11/24/15 13:32	1
4-Isopropyltoluene	ND		1.0		ug/L			11/24/15 13:32	1
Methylene Chloride	ND		5.0		ug/L			11/24/15 13:32	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/24/15 13:32	1
Naphthalene	ND		1.0		ug/L			11/24/15 13:32	1
N-Propylbenzene	ND		1.0		ug/L			11/24/15 13:32	1
Styrene	ND		0.50		ug/L			11/24/15 13:32	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/24/15 13:32	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

Client Sample ID: GAC

Date Collected: 11/19/15 09:16

Date Received: 11/19/15 16:51

Lab Sample ID: 720-68747-2

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			11/24/15 13:32	1
Tetrachloroethene	ND		0.50		ug/L			11/24/15 13:32	1
Toluene	ND		0.50		ug/L			11/24/15 13:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/24/15 13:32	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/24/15 13:32	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/24/15 13:32	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/24/15 13:32	1
Trichloroethene	ND		0.50		ug/L			11/24/15 13:32	1
Trichlorofluoromethane	ND		1.0		ug/L			11/24/15 13:32	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/24/15 13:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/24/15 13:32	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/24/15 13:32	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/24/15 13:32	1
Vinyl acetate	ND		10		ug/L			11/24/15 13:32	1
Vinyl chloride	ND		0.50		ug/L			11/24/15 13:32	1
Xylenes, Total	ND		1.0		ug/L			11/24/15 13:32	1
2,2-Dichloropropane	ND		0.50		ug/L			11/24/15 13:32	1
Gasoline Range Organics (GRO)	ND		50		ug/L			11/24/15 13:32	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		67 - 130					11/24/15 13:32	1
1,2-Dichloroethane-d4 (Surr)	87		72 - 130					11/24/15 13:32	1
Toluene-d8 (Surr)	82		70 - 130					11/24/15 13:32	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

Client Sample ID: INF

Date Collected: 11/19/15 09:17

Date Received: 11/19/15 16:51

Lab Sample ID: 720-68747-3

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	0.89		0.50		ug/L			11/24/15 14:54	1
Acetone	ND		50		ug/L			11/24/15 14:54	1
Benzene	17		0.50		ug/L			11/24/15 14:54	1
Dichlorobromomethane	ND		0.50		ug/L			11/24/15 14:54	1
Bromobenzene	ND		1.0		ug/L			11/24/15 14:54	1
Chlorobromomethane	ND		1.0		ug/L			11/24/15 14:54	1
Bromoform	ND		1.0		ug/L			11/24/15 14:54	1
Bromomethane	ND		1.0		ug/L			11/24/15 14:54	1
2-Butanone (MEK)	ND		50		ug/L			11/24/15 14:54	1
n-Butylbenzene	1.2		1.0		ug/L			11/24/15 14:54	1
sec-Butylbenzene	ND		1.0		ug/L			11/24/15 14:54	1
tert-Butylbenzene	ND		1.0		ug/L			11/24/15 14:54	1
Carbon disulfide	ND		5.0		ug/L			11/24/15 14:54	1
Carbon tetrachloride	ND		0.50		ug/L			11/24/15 14:54	1
Chlorobenzene	ND		0.50		ug/L			11/24/15 14:54	1
Chloroethane	ND		1.0		ug/L			11/24/15 14:54	1
Chloroform	ND		1.0		ug/L			11/24/15 14:54	1
Chloromethane	ND		1.0		ug/L			11/24/15 14:54	1
2-Chlorotoluene	ND		0.50		ug/L			11/24/15 14:54	1
4-Chlorotoluene	ND		0.50		ug/L			11/24/15 14:54	1
Chlorodibromomethane	ND		0.50		ug/L			11/24/15 14:54	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/24/15 14:54	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/24/15 14:54	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/24/15 14:54	1
1,3-Dichloropropane	ND		1.0		ug/L			11/24/15 14:54	1
1,1-Dichloropropane	ND		0.50		ug/L			11/24/15 14:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/24/15 14:54	1
Ethylene Dibromide	ND		0.50		ug/L			11/24/15 14:54	1
Dibromomethane	ND		0.50		ug/L			11/24/15 14:54	1
Dichlorodifluoromethane	ND *		0.50		ug/L			11/24/15 14:54	1
1,1-Dichloroethane	ND		0.50		ug/L			11/24/15 14:54	1
1,2-Dichloroethane	ND		0.50		ug/L			11/24/15 14:54	1
1,1-Dichloroethene	ND		0.50		ug/L			11/24/15 14:54	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/24/15 14:54	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/24/15 14:54	1
1,2-Dichloropropane	ND		0.50		ug/L			11/24/15 14:54	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/24/15 14:54	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/24/15 14:54	1
Ethylbenzene	ND		0.50		ug/L			11/24/15 14:54	1
Hexachlorobutadiene	ND		1.0		ug/L			11/24/15 14:54	1
2-Hexanone	ND		50		ug/L			11/24/15 14:54	1
Isopropylbenzene	ND		0.50		ug/L			11/24/15 14:54	1
4-Isopropyltoluene	ND		1.0		ug/L			11/24/15 14:54	1
Methylene Chloride	ND		5.0		ug/L			11/24/15 14:54	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/24/15 14:54	1
Naphthalene	15		1.0		ug/L			11/24/15 14:54	1
N-Propylbenzene	ND		1.0		ug/L			11/24/15 14:54	1
Styrene	ND		0.50		ug/L			11/24/15 14:54	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/24/15 14:54	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

Client Sample ID: INF

Date Collected: 11/19/15 09:17

Date Received: 11/19/15 16:51

Lab Sample ID: 720-68747-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/24/15 14:54	1
Tetrachloroethene	ND		0.50		ug/L			11/24/15 14:54	1
Toluene	12		0.50		ug/L			11/24/15 14:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/24/15 14:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/24/15 14:54	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/24/15 14:54	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/24/15 14:54	1
Trichloroethene	ND		0.50		ug/L			11/24/15 14:54	1
Trichlorofluoromethane	ND		1.0		ug/L			11/24/15 14:54	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/24/15 14:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/24/15 14:54	1
1,2,4-Trimethylbenzene	20		0.50		ug/L			11/24/15 14:54	1
1,3,5-Trimethylbenzene	22		0.50		ug/L			11/24/15 14:54	1
Vinyl acetate	ND		10		ug/L			11/24/15 14:54	1
Vinyl chloride	ND		0.50		ug/L			11/24/15 14:54	1
Xylenes, Total	160		1.0		ug/L			11/24/15 14:54	1
2,2-Dichloropropane	ND		0.50		ug/L			11/24/15 14:54	1
Gasoline Range Organics (GRO)	650		50		ug/L			11/24/15 14:54	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		67 - 130					11/24/15 14:54	1
1,2-Dichloroethane-d4 (Surr)	83		72 - 130					11/24/15 14:54	1
Toluene-d8 (Surr)	85		70 - 130					11/24/15 14:54	1

TestAmerica Pleasanton

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (67-130)	12DCE (72-130)	TOL (70-130)
720-68747-1	EFF	85	88	82
720-68747-2	GAC	84	87	82
720-68747-3	INF	94	83	85
720-68747-3 MS	INF	94	80	86
720-68747-3 MSD	INF	96	81	88
LCS 720-193113/5	Lab Control Sample	93	80	87
LCS 720-193113/7	Lab Control Sample	92	83	85
LCSD 720-193113/6	Lab Control Sample Dup	91	76	84
LCSD 720-193113/8	Lab Control Sample Dup	92	84	88
MB 720-193113/4	Method Blank	84	88	84

Surrogate Legend

BFB = 4-Bromofluorobenzene

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

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

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

Lab Sample ID: MB 720-193113/4

Matrix: Water

Analysis Batch: 193113

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/24/15 08:56	1
Acetone	ND		50		ug/L			11/24/15 08:56	1
Benzene	ND		0.50		ug/L			11/24/15 08:56	1
Dichlorobromomethane	ND		0.50		ug/L			11/24/15 08:56	1
Bromobenzene	ND		1.0		ug/L			11/24/15 08:56	1
Chlorobromomethane	ND		1.0		ug/L			11/24/15 08:56	1
Bromoform	ND		1.0		ug/L			11/24/15 08:56	1
Bromomethane	ND		1.0		ug/L			11/24/15 08:56	1
2-Butanone (MEK)	ND		50		ug/L			11/24/15 08:56	1
n-Butylbenzene	ND		1.0		ug/L			11/24/15 08:56	1
sec-Butylbenzene	ND		1.0		ug/L			11/24/15 08:56	1
tert-Butylbenzene	ND		1.0		ug/L			11/24/15 08:56	1
Carbon disulfide	ND		5.0		ug/L			11/24/15 08:56	1
Carbon tetrachloride	ND		0.50		ug/L			11/24/15 08:56	1
Chlorobenzene	ND		0.50		ug/L			11/24/15 08:56	1
Chloroethane	ND		1.0		ug/L			11/24/15 08:56	1
Chloroform	ND		1.0		ug/L			11/24/15 08:56	1
Chloromethane	ND		1.0		ug/L			11/24/15 08:56	1
2-Chlorotoluene	ND		0.50		ug/L			11/24/15 08:56	1
4-Chlorotoluene	ND		0.50		ug/L			11/24/15 08:56	1
Chlorodibromomethane	ND		0.50		ug/L			11/24/15 08:56	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/24/15 08:56	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/24/15 08:56	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/24/15 08:56	1
1,3-Dichloropropane	ND		1.0		ug/L			11/24/15 08:56	1
1,1-Dichloropropene	ND		0.50		ug/L			11/24/15 08:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/24/15 08:56	1
Ethylene Dibromide	ND		0.50		ug/L			11/24/15 08:56	1
Dibromomethane	ND		0.50		ug/L			11/24/15 08:56	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/24/15 08:56	1
1,1-Dichloroethane	ND		0.50		ug/L			11/24/15 08:56	1
1,2-Dichloroethane	ND		0.50		ug/L			11/24/15 08:56	1
1,1-Dichloroethene	ND		0.50		ug/L			11/24/15 08:56	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/24/15 08:56	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/24/15 08:56	1
1,2-Dichloropropane	ND		0.50		ug/L			11/24/15 08:56	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/24/15 08:56	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/24/15 08:56	1
Ethylbenzene	ND		0.50		ug/L			11/24/15 08:56	1
Hexachlorobutadiene	ND		1.0		ug/L			11/24/15 08:56	1
2-Hexanone	ND		50		ug/L			11/24/15 08:56	1
Isopropylbenzene	ND		0.50		ug/L			11/24/15 08:56	1
4-Isopropyltoluene	ND		1.0		ug/L			11/24/15 08:56	1
Methylene Chloride	ND		5.0		ug/L			11/24/15 08:56	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/24/15 08:56	1
Naphthalene	ND		1.0		ug/L			11/24/15 08:56	1
N-Propylbenzene	ND		1.0		ug/L			11/24/15 08:56	1
Styrene	ND		0.50		ug/L			11/24/15 08:56	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

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

Lab Sample ID: MB 720-193113/4

Matrix: Water

Analysis Batch: 193113

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/24/15 08:56	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/24/15 08:56	1
Tetrachloroethene	ND		0.50		ug/L			11/24/15 08:56	1
Toluene	ND		0.50		ug/L			11/24/15 08:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/24/15 08:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/24/15 08:56	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/24/15 08:56	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/24/15 08:56	1
Trichloroethene	ND		0.50		ug/L			11/24/15 08:56	1
Trichlorofluoromethane	ND		1.0		ug/L			11/24/15 08:56	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/24/15 08:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/24/15 08:56	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/24/15 08:56	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/24/15 08:56	1
Vinyl acetate	ND		10		ug/L			11/24/15 08:56	1
Vinyl chloride	ND		0.50		ug/L			11/24/15 08:56	1
Xylenes, Total	ND		1.0		ug/L			11/24/15 08:56	1
2,2-Dichloropropane	ND		0.50		ug/L			11/24/15 08:56	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			11/24/15 08:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		67 - 130		11/24/15 08:56	1
1,2-Dichloroethane-d4 (Surr)	88		72 - 130		11/24/15 08:56	1
Toluene-d8 (Surr)	84		70 - 130		11/24/15 08:56	1

Lab Sample ID: LCS 720-193113/5

Matrix: Water

Analysis Batch: 193113

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	25.2		ug/L		101	62 - 130
Acetone	125	125		ug/L		100	26 - 180
Benzene	25.0	26.3		ug/L		105	79 - 130
Dichlorobromomethane	25.0	26.7		ug/L		107	70 - 130
Bromobenzene	25.0	26.9		ug/L		108	70 - 130
Chlorobromomethane	25.0	25.8		ug/L		103	70 - 130
Bromoform	25.0	28.1		ug/L		112	68 - 136
Bromomethane	25.0	26.9		ug/L		108	43 - 151
2-Butanone (MEK)	125	144		ug/L		116	54 - 130
n-Butylbenzene	25.0	27.7		ug/L		111	70 - 142
sec-Butylbenzene	25.0	27.3		ug/L		109	70 - 134
tert-Butylbenzene	25.0	26.4		ug/L		106	70 - 135
Carbon disulfide	25.0	27.4		ug/L		110	58 - 130
Carbon tetrachloride	25.0	25.7		ug/L		103	70 - 146
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130
Chloroethane	25.0	26.4		ug/L		106	62 - 138
Chloroform	25.0	26.6		ug/L		107	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

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

Lab Sample ID: LCS 720-193113/5

Matrix: Water

Analysis Batch: 193113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	27.5		ug/L		110	52 - 175
2-Chlorotoluene	25.0	26.2		ug/L		105	70 - 130
4-Chlorotoluene	25.0	26.1		ug/L		105	70 - 130
Chlorodibromomethane	25.0	26.0		ug/L		104	70 - 145
1,2-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130
1,4-Dichlorobenzene	25.0	26.6		ug/L		107	70 - 130
1,3-Dichloropropane	25.0	26.1		ug/L		104	70 - 130
1,1-Dichloropropene	25.0	26.3		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	27.4		ug/L		109	70 - 136
Ethylene Dibromide	25.0	24.5		ug/L		98	70 - 130
Dibromomethane	25.0	26.2		ug/L		105	70 - 130
Dichlorodifluoromethane	25.0	39.9	*	ug/L		159	34 - 132
1,1-Dichloroethane	25.0	27.4		ug/L		109	70 - 130
1,2-Dichloroethane	25.0	28.6		ug/L		114	61 - 132
1,1-Dichloroethene	25.0	25.2		ug/L		101	64 - 128
cis-1,2-Dichloroethene	25.0	27.7		ug/L		111	70 - 130
trans-1,2-Dichloroethene	25.0	27.6		ug/L		111	68 - 130
1,2-Dichloropropane	25.0	27.9		ug/L		112	70 - 130
cis-1,3-Dichloropropene	25.0	27.7		ug/L		111	70 - 130
trans-1,3-Dichloropropene	25.0	24.2		ug/L		97	70 - 140
Ethylbenzene	25.0	25.5		ug/L		102	80 - 120
Hexachlorobutadiene	25.0	27.2		ug/L		109	70 - 130
2-Hexanone	125	138		ug/L		110	60 - 164
Isopropylbenzene	25.0	26.7		ug/L		107	70 - 130
4-Isopropyltoluene	25.0	27.2		ug/L		109	70 - 130
Methylene Chloride	25.0	24.6		ug/L		99	70 - 147
4-Methyl-2-pentanone (MIBK)	125	139		ug/L		111	58 - 130
Naphthalene	25.0	28.3		ug/L		113	70 - 130
N-Propylbenzene	25.0	26.6		ug/L		107	70 - 130
Styrene	25.0	25.9		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.6		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	25.0	28.5		ug/L		114	70 - 130
Tetrachloroethene	25.0	26.4		ug/L		106	70 - 130
Toluene	25.0	25.1		ug/L		100	78 - 120
1,2,3-Trichlorobenzene	25.0	26.9		ug/L		107	70 - 130
1,2,4-Trichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	70 - 130
Trichloroethene	25.0	28.0		ug/L		112	70 - 130
Trichlorofluoromethane	25.0	26.2		ug/L		105	66 - 132
1,2,3-Trichloropropane	25.0	28.1		ug/L		112	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.1		ug/L		108	42 - 162
1,2,4-Trimethylbenzene	25.0	26.6		ug/L		106	70 - 132
1,3,5-Trimethylbenzene	25.0	26.6		ug/L		107	70 - 130
Vinyl acetate	25.0	35.2		ug/L		141	43 - 163
Vinyl chloride	25.0	26.9		ug/L		108	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

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

Lab Sample ID: LCS 720-193113/5

Matrix: Water

Analysis Batch: 193113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	70 - 142
o-Xylene	25.0	25.7		ug/L		103	70 - 130
2,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	80		72 - 130
Toluene-d8 (Surr)	87		70 - 130

Lab Sample ID: LCS 720-193113/7

Matrix: Water

Analysis Batch: 193113

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)	500	569		ug/L		114	62 - 120
-C5-C12							

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	92		67 - 130
1,2-Dichloroethane-d4 (Surr)	83		72 - 130
Toluene-d8 (Surr)	85		70 - 130

Lab Sample ID: LCSD 720-193113/6

Matrix: Water

Analysis Batch: 193113

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	25.9		ug/L		104	62 - 130	3	20
Acetone	125	139		ug/L		111	26 - 180	10	30
Benzene	25.0	26.2		ug/L		105	79 - 130	0	20
Dichlorobromomethane	25.0	26.2		ug/L		105	70 - 130	2	20
Bromobenzene	25.0	27.2		ug/L		109	70 - 130	1	20
Chlorobromomethane	25.0	25.8		ug/L		103	70 - 130	0	20
Bromoform	25.0	29.0		ug/L		116	68 - 136	3	20
Bromomethane	25.0	26.7		ug/L		107	43 - 151	1	20
2-Butanone (MEK)	125	157		ug/L		125	54 - 130	8	20
n-Butylbenzene	25.0	27.4		ug/L		110	70 - 142	1	20
sec-Butylbenzene	25.0	27.5		ug/L		110	70 - 134	1	20
tert-Butylbenzene	25.0	26.7		ug/L		107	70 - 135	1	20
Carbon disulfide	25.0	27.2		ug/L		109	58 - 130	1	20
Carbon tetrachloride	25.0	25.1		ug/L		100	70 - 146	2	20
Chlorobenzene	25.0	25.3		ug/L		101	70 - 130	1	20
Chloroethane	25.0	26.0		ug/L		104	62 - 138	2	20
Chloroform	25.0	26.4		ug/L		106	70 - 130	1	20
Chloromethane	25.0	27.5		ug/L		110	52 - 175	0	20
2-Chlorotoluene	25.0	26.1		ug/L		105	70 - 130	0	20
4-Chlorotoluene	25.0	26.8		ug/L		107	70 - 130	3	20
Chlorodibromomethane	25.0	26.1		ug/L		104	70 - 145	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

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

Lab Sample ID: LCSD 720-193113/6

Matrix: Water

Analysis Batch: 193113

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	26.3		ug/L		105	70 - 130	1	20
1,3-Dichlorobenzene	25.0	25.6		ug/L		103	70 - 130	0	20
1,4-Dichlorobenzene	25.0	26.6		ug/L		106	70 - 130	0	20
1,3-Dichloropropane	25.0	26.2		ug/L		105	70 - 130	0	20
1,1-Dichloropropene	25.0	26.5		ug/L		106	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	28.7		ug/L		115	70 - 136	5	20
Ethylene Dibromide	25.0	24.9		ug/L		99	70 - 130	1	20
Dibromomethane	25.0	26.8		ug/L		107	70 - 130	2	20
Dichlorodifluoromethane	25.0	39.9	*	ug/L		160	34 - 132	0	20
1,1-Dichloroethane	25.0	27.0		ug/L		108	70 - 130	1	20
1,2-Dichloroethane	25.0	28.7		ug/L		115	61 - 132	0	20
1,1-Dichloroethene	25.0	25.0		ug/L		100	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	27.6		ug/L		110	70 - 130	0	20
trans-1,2-Dichloroethene	25.0	27.3		ug/L		109	68 - 130	1	20
1,2-Dichloropropane	25.0	27.8		ug/L		111	70 - 130	0	20
cis-1,3-Dichloropropene	25.0	27.5		ug/L		110	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 140	2	20
Ethylbenzene	25.0	25.4		ug/L		102	80 - 120	0	20
Hexachlorobutadiene	25.0	27.0		ug/L		108	70 - 130	1	20
2-Hexanone	125	146		ug/L		117	60 - 164	6	20
Isopropylbenzene	25.0	26.8		ug/L		107	70 - 130	0	20
4-Isopropyltoluene	25.0	27.1		ug/L		108	70 - 130	0	20
Methylene Chloride	25.0	24.7		ug/L		99	70 - 147	0	20
4-Methyl-2-pentanone (MIBK)	125	152		ug/L		121	58 - 130	9	20
Naphthalene	25.0	30.2		ug/L		121	70 - 130	7	20
N-Propylbenzene	25.0	26.7		ug/L		107	70 - 130	0	20
Styrene	25.0	26.0		ug/L		104	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	25.3		ug/L		101	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	30.2		ug/L		121	70 - 130	6	20
Tetrachloroethene	25.0	25.9		ug/L		103	70 - 130	2	20
Toluene	25.0	24.7		ug/L		99	78 - 120	2	20
1,2,3-Trichlorobenzene	25.0	27.6		ug/L		110	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	26.7		ug/L		107	70 - 130	1	20
1,1,1-Trichloroethane	25.0	25.9		ug/L		103	70 - 130	2	20
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	70 - 130	0	20
Trichloroethene	25.0	27.2		ug/L		109	70 - 130	3	20
Trichlorofluoromethane	25.0	25.8		ug/L		103	66 - 132	1	20
1,2,3-Trichloropropane	25.0	29.5		ug/L		118	70 - 130	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.5		ug/L		106	42 - 162	2	20
1,2,4-Trimethylbenzene	25.0	26.6		ug/L		107	70 - 132	0	20
1,3,5-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 130	0	20
Vinyl acetate	25.0	36.2		ug/L		145	43 - 163	3	20
Vinyl chloride	25.0	26.5		ug/L		106	54 - 135	1	20
m-Xylene & p-Xylene	25.0	25.4		ug/L		101	70 - 142	1	20
o-Xylene	25.0	25.8		ug/L		103	70 - 130	0	20
2,2-Dichloropropane	25.0	25.6		ug/L		102	70 - 140	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

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

Lab Sample ID: LCSD 720-193113/6

Matrix: Water

Analysis Batch: 193113

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	91		67 - 130
1,2-Dichloroethane-d4 (Surr)	76		72 - 130
Toluene-d8 (Surr)	84		70 - 130

Lab Sample ID: LCSD 720-193113/8

Matrix: Water

Analysis Batch: 193113

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	579		ug/L		116	62 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	92		67 - 130
1,2-Dichloroethane-d4 (Surr)	84		72 - 130
Toluene-d8 (Surr)	88		70 - 130

Lab Sample ID: 720-68747-3 MS

Matrix: Water

Analysis Batch: 193113

Client Sample ID: INF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	0.89		25.0	24.2		ug/L		93	60 - 138
Acetone	ND		125	126		ug/L		101	60 - 140
Benzene	17		25.0	41.0		ug/L		95	60 - 140
Dichlorobromomethane	ND		25.0	23.8		ug/L		95	60 - 140
Bromobenzene	ND		25.0	24.1		ug/L		96	60 - 140
Chlorobromomethane	ND		25.0	23.0		ug/L		92	60 - 140
Bromoform	ND		25.0	25.5		ug/L		102	56 - 140
Bromomethane	ND		25.0	24.1		ug/L		96	23 - 140
2-Butanone (MEK)	ND		125	136		ug/L		109	60 - 140
n-Butylbenzene	1.2		25.0	25.0		ug/L		95	60 - 140
sec-Butylbenzene	ND		25.0	23.7		ug/L		94	60 - 140
tert-Butylbenzene	ND		25.0	23.5		ug/L		94	60 - 140
Carbon disulfide	ND		25.0	23.8		ug/L		95	38 - 140
Carbon tetrachloride	ND		25.0	21.9		ug/L		87	60 - 140
Chlorobenzene	ND		25.0	22.4		ug/L		90	60 - 140
Chloroethane	ND		25.0	21.7		ug/L		87	51 - 140
Chloroform	ND		25.0	24.8		ug/L		96	60 - 140
Chloromethane	ND		25.0	24.8		ug/L		99	52 - 140
2-Chlorotoluene	ND		25.0	24.8		ug/L		99	60 - 140
4-Chlorotoluene	ND		25.0	24.9		ug/L		100	60 - 140
Chlorodibromomethane	ND		25.0	23.4		ug/L		93	60 - 140
1,2-Dichlorobenzene	ND		25.0	24.0		ug/L		96	60 - 140
1,3-Dichlorobenzene	ND		25.0	22.6		ug/L		90	60 - 140
1,4-Dichlorobenzene	ND		25.0	23.6		ug/L		94	60 - 140
1,3-Dichloropropane	ND		25.0	24.0		ug/L		96	60 - 140
1,1-Dichloropropene	ND		25.0	22.4		ug/L		90	60 - 140

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

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

Lab Sample ID: 720-68747-3 MS

Matrix: Water

Analysis Batch: 193113

Client Sample ID: INF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		25.0	25.0		ug/L		100	60 - 140
Ethylene Dibromide	ND		25.0	22.7		ug/L		91	60 - 140
Dibromomethane	ND		25.0	23.7		ug/L		95	60 - 140
Dichlorodifluoromethane	ND	*	25.0	33.6		ug/L		134	38 - 140
1,1-Dichloroethane	ND		25.0	24.0		ug/L		96	60 - 140
1,2-Dichloroethane	ND		25.0	26.2		ug/L		105	60 - 140
1,1-Dichloroethene	ND		25.0	21.9		ug/L		87	60 - 140
cis-1,2-Dichloroethene	ND		25.0	24.3		ug/L		97	60 - 140
trans-1,2-Dichloroethene	ND		25.0	24.5		ug/L		98	60 - 140
1,2-Dichloropropane	ND		25.0	25.2		ug/L		101	60 - 140
cis-1,3-Dichloropropene	ND		25.0	24.5		ug/L		98	60 - 140
trans-1,3-Dichloropropene	ND		25.0	22.1		ug/L		88	60 - 140
Ethylbenzene	ND		25.0	22.7		ug/L		90	60 - 140
Hexachlorobutadiene	ND		25.0	23.2		ug/L		93	60 - 140
2-Hexanone	ND		125	123		ug/L		98	60 - 140
Isopropylbenzene	ND		25.0	23.4		ug/L		94	60 - 140
4-Isopropyltoluene	ND		25.0	23.8		ug/L		94	60 - 140
Methylene Chloride	ND		25.0	22.1		ug/L		89	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	130		ug/L		104	58 - 130
Naphthalene	15		25.0	42.3		ug/L		110	56 - 140
N-Propylbenzene	ND		25.0	23.6		ug/L		95	60 - 140
Styrene	ND		25.0	23.0		ug/L		92	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	22.6		ug/L		90	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	27.2		ug/L		109	60 - 140
Tetrachloroethene	ND		25.0	22.2		ug/L		89	60 - 140
Toluene	12		25.0	33.5		ug/L		87	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	23.7		ug/L		95	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	23.6		ug/L		94	60 - 140
1,1,1-Trichloroethane	ND		25.0	22.8		ug/L		91	60 - 140
1,1,2-Trichloroethane	ND		25.0	22.8		ug/L		91	60 - 140
Trichloroethene	ND		25.0	24.3		ug/L		97	60 - 140
Trichlorofluoromethane	ND		25.0	21.9		ug/L		88	60 - 140
1,2,3-Trichloropropane	ND		25.0	25.3		ug/L		101	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	23.0		ug/L		92	60 - 140
1,2,4-Trimethylbenzene	20		25.0	44.6		ug/L		97	60 - 140
1,3,5-Trimethylbenzene	22		25.0	45.4		ug/L		94	60 - 140
Vinyl acetate	ND		25.0	30.1		ug/L		107	40 - 140
Vinyl chloride	ND		25.0	22.9		ug/L		92	58 - 140
m-Xylene & p-Xylene	80		25.0	98.3		ug/L		74	60 - 140
o-Xylene	75		25.0	95.3		ug/L		79	60 - 140
2,2-Dichloropropane	ND		25.0	21.9		ug/L		88	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	80		72 - 130
Toluene-d8 (Surr)	86		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

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

Lab Sample ID: 720-68747-3 MSD

Matrix: Water

Analysis Batch: 193113

Client Sample ID: INF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	0.89		25.0	24.8		ug/L		96	60 - 138	2	20
Acetone	ND		125	124		ug/L		100	60 - 140	1	20
Benzene	17		25.0	40.7		ug/L		94	60 - 140	1	20
Dichlorobromomethane	ND		25.0	23.7		ug/L		95	60 - 140	0	20
Bromobenzene	ND		25.0	24.3		ug/L		97	60 - 140	1	20
Chlorobromomethane	ND		25.0	23.6		ug/L		94	60 - 140	2	20
Bromoform	ND		25.0	25.2		ug/L		101	56 - 140	1	20
Bromomethane	ND		25.0	25.1		ug/L		100	23 - 140	4	20
2-Butanone (MEK)	ND		125	137		ug/L		110	60 - 140	1	20
n-Butylbenzene	1.2		25.0	25.0		ug/L		95	60 - 140	0	20
sec-Butylbenzene	ND		25.0	23.3		ug/L		92	60 - 140	2	20
tert-Butylbenzene	ND		25.0	23.2		ug/L		93	60 - 140	1	20
Carbon disulfide	ND		25.0	24.2		ug/L		97	38 - 140	2	20
Carbon tetrachloride	ND		25.0	21.9		ug/L		87	60 - 140	0	20
Chlorobenzene	ND		25.0	22.7		ug/L		91	60 - 140	1	20
Chloroethane	ND		25.0	23.9		ug/L		96	51 - 140	10	20
Chloroform	ND		25.0	25.0		ug/L		96	60 - 140	0	20
Chloromethane	ND		25.0	26.5		ug/L		106	52 - 140	7	20
2-Chlorotoluene	ND		25.0	24.4		ug/L		98	60 - 140	2	20
4-Chlorotoluene	ND		25.0	24.1		ug/L		96	60 - 140	3	20
Chlorodibromomethane	ND		25.0	23.9		ug/L		96	60 - 140	2	20
1,2-Dichlorobenzene	ND		25.0	23.5		ug/L		94	60 - 140	2	20
1,3-Dichlorobenzene	ND		25.0	22.2		ug/L		89	60 - 140	2	20
1,4-Dichlorobenzene	ND		25.0	23.5		ug/L		94	60 - 140	0	20
1,3-Dichloropropane	ND		25.0	24.8		ug/L		99	60 - 140	3	20
1,1-Dichloropropene	ND		25.0	23.2		ug/L		93	60 - 140	3	20
1,2-Dibromo-3-Chloropropane	ND		25.0	24.4		ug/L		97	60 - 140	3	20
Ethylene Dibromide	ND		25.0	23.0		ug/L		92	60 - 140	1	20
Dibromomethane	ND		25.0	24.3		ug/L		97	60 - 140	2	20
Dichlorodifluoromethane	ND *		25.0	34.7		ug/L		139	38 - 140	3	20
1,1-Dichloroethane	ND		25.0	24.5		ug/L		98	60 - 140	2	20
1,2-Dichloroethane	ND		25.0	26.4		ug/L		106	60 - 140	1	20
1,1-Dichloroethene	ND		25.0	22.2		ug/L		89	60 - 140	2	20
cis-1,2-Dichloroethene	ND		25.0	24.7		ug/L		99	60 - 140	2	20
trans-1,2-Dichloroethene	ND		25.0	25.2		ug/L		101	60 - 140	3	20
1,2-Dichloropropane	ND		25.0	25.9		ug/L		104	60 - 140	3	20
cis-1,3-Dichloropropene	ND		25.0	25.2		ug/L		101	60 - 140	3	20
trans-1,3-Dichloropropene	ND		25.0	22.6		ug/L		90	60 - 140	2	20
Ethylbenzene	ND		25.0	22.8		ug/L		90	60 - 140	1	20
Hexachlorobutadiene	ND		25.0	22.5		ug/L		90	60 - 140	3	20
2-Hexanone	ND		125	121		ug/L		97	60 - 140	1	20
Isopropylbenzene	ND		25.0	24.0		ug/L		96	60 - 140	2	20
4-Isopropyltoluene	ND		25.0	23.6		ug/L		93	60 - 140	1	20
Methylene Chloride	ND		25.0	22.4		ug/L		90	40 - 140	1	20
4-Methyl-2-pentanone (MIBK)	ND		125	130		ug/L		104	58 - 130	0	20
Naphthalene	15		25.0	41.1		ug/L		105	56 - 140	3	20
N-Propylbenzene	ND		25.0	23.4		ug/L		93	60 - 140	1	20
Styrene	ND		25.0	23.0		ug/L		92	60 - 140	0	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

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

Lab Sample ID: 720-68747-3 MSD

Matrix: Water

Analysis Batch: 193113

Client Sample ID: INF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	22.8		ug/L		91	60 - 140	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.5		ug/L		106	60 - 140	2	20
Tetrachloroethene	ND		25.0	22.9		ug/L		91	60 - 140	3	20
Toluene	12		25.0	33.5		ug/L		87	60 - 140	0	20
1,2,3-Trichlorobenzene	ND		25.0	24.1		ug/L		97	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		25.0	23.8		ug/L		94	60 - 140	1	20
1,1,1-Trichloroethane	ND		25.0	22.7		ug/L		91	60 - 140	0	20
1,1,2-Trichloroethane	ND		25.0	23.4		ug/L		94	60 - 140	3	20
Trichloroethene	ND		25.0	24.2		ug/L		97	60 - 140	0	20
Trichlorofluoromethane	ND		25.0	22.0		ug/L		88	60 - 140	0	20
1,2,3-Trichloropropane	ND		25.0	24.9		ug/L		100	60 - 140	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.9		ug/L		92	60 - 140	0	20
1,2,4-Trimethylbenzene	20		25.0	43.1		ug/L		91	60 - 140	3	20
1,3,5-Trimethylbenzene	22		25.0	44.4		ug/L		90	60 - 140	2	20
Vinyl acetate	ND		25.0	30.9		ug/L		110	40 - 140	3	20
Vinyl chloride	ND		25.0	24.5		ug/L		98	58 - 140	7	20
m-Xylene & p-Xylene	80		25.0	96.3		ug/L		66	60 - 140	2	20
o-Xylene	75		25.0	93.3		ug/L		71	60 - 140	2	20
2,2-Dichloropropane	ND		25.0	22.2		ug/L		89	60 - 140	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	81		72 - 130
Toluene-d8 (Surr)	88		70 - 130

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

GC/MS VOA

Analysis Batch: 193113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68747-1	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-68747-2	GAC	Total/NA	Water	8260B/CA_LUFT MS	
720-68747-3	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-68747-3 MS	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-68747-3 MSD	INF	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-193113/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-193113/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-193113/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-193113/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-193113/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-68747-1

Client Sample ID: EFF

Date Collected: 11/19/15 09:15

Date Received: 11/19/15 16:51

Lab Sample ID: 720-68747-1

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	193113	11/24/15 13:05	PRD	TAL PLS

Client Sample ID: GAC

Date Collected: 11/19/15 09:16

Date Received: 11/19/15 16:51

Lab Sample ID: 720-68747-2

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	193113	11/24/15 13:32	PRD	TAL PLS

Client Sample ID: INF

Date Collected: 11/19/15 09:17

Date Received: 11/19/15 16:51

Lab Sample ID: 720-68747-3

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	193113	11/24/15 14:54	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: 720-68747-1

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: 720-68747-1

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: 720-68747-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-68747-1	EFF	Water	11/19/15 09:15	11/19/15 16:51
720-68747-2	GAC	Water	11/19/15 09:16	11/19/15 16:51
720-68747-3	INF	Water	11/19/15 09:17	11/19/15 16:51

TestAmerica Pleasanton
1220 Quarry Lane

720-68747

Chain of Custody Record

165141

TestAmerica

Pleasanton, CA 94566
phone 925.484.1919 fax

TestAmerica Laboratories, Inc.

[illegible]

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-68747-1

Login Number: 68747

List Number: 1

Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

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

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-69316-1

Client Project/Site: Chun

For:

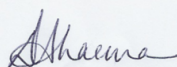
Ninyo & Moore

1956 Webster Street

Suite 400

Oakland, California 94612

Attn: Mr. Peter D. Sims



Authorized for release by:

12/23/2015 10:46:30 AM

Dimple Sharma, Senior Project Manager

(925)484-1919

dimple.sharma@testamericainc.com

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

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

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Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

Glossary

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

Case Narrative

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

Job ID: 720-69316-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-69316-1

Comments

No additional comments.

Receipt

The samples were received on 12/18/2015 2:14 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8° 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: 720-69316-1

Client Sample ID: INF

Lab Sample ID: 720-69316-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.76		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Benzene	2.5		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Chloroform	1.3		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
1,2-Dichloroethane	0.58		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Naphthalene	2.2		1.0		ug/L	1			8260B/CA_LUFT MS	Total/NA
Toluene	2.0		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
1,2,4-Trimethylbenzene	2.1		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
1,3,5-Trimethylbenzene	21		0.50		ug/L	1			8260B/CA_LUFT MS	Total/NA
Xylenes, Total	61		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

Client Sample ID: EFF

Lab Sample ID: 720-69316-2

No Detections.

Client Sample ID: GAC

Lab Sample ID: 720-69316-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

Client Sample ID: INF

Date Collected: 12/17/15 14:45

Date Received: 12/18/15 14:14

Lab Sample ID: 720-69316-1

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	0.76		0.50		ug/L			12/21/15 16:48	1
Acetone	ND		50		ug/L			12/21/15 16:48	1
Benzene	2.5		0.50		ug/L			12/21/15 16:48	1
Dichlorobromomethane	ND		0.50		ug/L			12/21/15 16:48	1
Bromobenzene	ND		1.0		ug/L			12/21/15 16:48	1
Chlorobromomethane	ND		1.0		ug/L			12/21/15 16:48	1
Bromoform	ND		1.0		ug/L			12/21/15 16:48	1
Bromomethane	ND		1.0		ug/L			12/21/15 16:48	1
2-Butanone (MEK)	ND		50		ug/L			12/21/15 16:48	1
n-Butylbenzene	ND		1.0		ug/L			12/21/15 16:48	1
sec-Butylbenzene	ND		1.0		ug/L			12/21/15 16:48	1
tert-Butylbenzene	ND		1.0		ug/L			12/21/15 16:48	1
Carbon disulfide	ND		5.0		ug/L			12/21/15 16:48	1
Carbon tetrachloride	ND		0.50		ug/L			12/21/15 16:48	1
Chlorobenzene	ND		0.50		ug/L			12/21/15 16:48	1
Chloroethane	ND		1.0		ug/L			12/21/15 16:48	1
Chloroform	1.3		1.0		ug/L			12/21/15 16:48	1
Chloromethane	ND		1.0		ug/L			12/21/15 16:48	1
2-Chlorotoluene	ND		0.50		ug/L			12/21/15 16:48	1
4-Chlorotoluene	ND		0.50		ug/L			12/21/15 16:48	1
Chlorodibromomethane	ND		0.50		ug/L			12/21/15 16:48	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/21/15 16:48	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/21/15 16:48	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/21/15 16:48	1
1,3-Dichloropropane	ND		1.0		ug/L			12/21/15 16:48	1
1,1-Dichloropropane	ND		0.50		ug/L			12/21/15 16:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/21/15 16:48	1
Ethylene Dibromide	ND		0.50		ug/L			12/21/15 16:48	1
Dibromomethane	ND		0.50		ug/L			12/21/15 16:48	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/21/15 16:48	1
1,1-Dichloroethane	ND		0.50		ug/L			12/21/15 16:48	1
1,2-Dichloroethane	0.58		0.50		ug/L			12/21/15 16:48	1
1,1-Dichloroethene	ND		0.50		ug/L			12/21/15 16:48	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/21/15 16:48	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/21/15 16:48	1
1,2-Dichloropropane	ND		0.50		ug/L			12/21/15 16:48	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/21/15 16:48	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/21/15 16:48	1
Ethylbenzene	ND		0.50		ug/L			12/21/15 16:48	1
Hexachlorobutadiene	ND		1.0		ug/L			12/21/15 16:48	1
2-Hexanone	ND		50		ug/L			12/21/15 16:48	1
Isopropylbenzene	ND		0.50		ug/L			12/21/15 16:48	1
4-Isopropyltoluene	ND		1.0		ug/L			12/21/15 16:48	1
Methylene Chloride	ND		5.0		ug/L			12/21/15 16:48	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/21/15 16:48	1
Naphthalene	2.2		1.0		ug/L			12/21/15 16:48	1
N-Propylbenzene	ND		1.0		ug/L			12/21/15 16:48	1
Styrene	ND		0.50		ug/L			12/21/15 16:48	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/21/15 16:48	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

Client Sample ID: INF

Date Collected: 12/17/15 14:45

Date Received: 12/18/15 14:14

Lab Sample ID: 720-69316-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/21/15 16:48	1
Tetrachloroethene	ND		0.50		ug/L			12/21/15 16:48	1
Toluene	2.0		0.50		ug/L			12/21/15 16:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/21/15 16:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/21/15 16:48	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/21/15 16:48	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/21/15 16:48	1
Trichloroethene	ND		0.50		ug/L			12/21/15 16:48	1
Trichlorofluoromethane	ND		1.0		ug/L			12/21/15 16:48	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/21/15 16:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/21/15 16:48	1
1,2,4-Trimethylbenzene	2.1		0.50		ug/L			12/21/15 16:48	1
1,3,5-Trimethylbenzene	21		0.50		ug/L			12/21/15 16:48	1
Vinyl acetate	ND		10		ug/L			12/21/15 16:48	1
Vinyl chloride	ND		0.50		ug/L			12/21/15 16:48	1
Xylenes, Total	61		1.0		ug/L			12/21/15 16:48	1
2,2-Dichloropropane	ND		0.50		ug/L			12/21/15 16:48	1
Gasoline Range Organics (GRO)	370		50		ug/L			12/21/15 16:48	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	113		67 - 130					12/21/15 16:48	1
1,2-Dichloroethane-d4 (Surr)	107		72 - 130					12/21/15 16:48	1
Toluene-d8 (Surr)	99		70 - 130					12/21/15 16:48	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

Client Sample ID: EFF

Date Collected: 12/17/15 14:45

Date Received: 12/18/15 14:14

Lab Sample ID: 720-69316-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			12/21/15 16:18	1
Acetone	ND		50		ug/L			12/21/15 16:18	1
Benzene	ND		0.50		ug/L			12/21/15 16:18	1
Dichlorobromomethane	ND		0.50		ug/L			12/21/15 16:18	1
Bromobenzene	ND		1.0		ug/L			12/21/15 16:18	1
Chlorobromomethane	ND		1.0		ug/L			12/21/15 16:18	1
Bromoform	ND		1.0		ug/L			12/21/15 16:18	1
Bromomethane	ND		1.0		ug/L			12/21/15 16:18	1
2-Butanone (MEK)	ND		50		ug/L			12/21/15 16:18	1
n-Butylbenzene	ND		1.0		ug/L			12/21/15 16:18	1
sec-Butylbenzene	ND		1.0		ug/L			12/21/15 16:18	1
tert-Butylbenzene	ND		1.0		ug/L			12/21/15 16:18	1
Carbon disulfide	ND		5.0		ug/L			12/21/15 16:18	1
Carbon tetrachloride	ND		0.50		ug/L			12/21/15 16:18	1
Chlorobenzene	ND		0.50		ug/L			12/21/15 16:18	1
Chloroethane	ND		1.0		ug/L			12/21/15 16:18	1
Chloroform	ND		1.0		ug/L			12/21/15 16:18	1
Chloromethane	ND		1.0		ug/L			12/21/15 16:18	1
2-Chlorotoluene	ND		0.50		ug/L			12/21/15 16:18	1
4-Chlorotoluene	ND		0.50		ug/L			12/21/15 16:18	1
Chlorodibromomethane	ND		0.50		ug/L			12/21/15 16:18	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/21/15 16:18	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/21/15 16:18	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/21/15 16:18	1
1,3-Dichloropropane	ND		1.0		ug/L			12/21/15 16:18	1
1,1-Dichloropropene	ND		0.50		ug/L			12/21/15 16:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/21/15 16:18	1
Ethylene Dibromide	ND		0.50		ug/L			12/21/15 16:18	1
Dibromomethane	ND		0.50		ug/L			12/21/15 16:18	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/21/15 16:18	1
1,1-Dichloroethane	ND		0.50		ug/L			12/21/15 16:18	1
1,2-Dichloroethane	ND		0.50		ug/L			12/21/15 16:18	1
1,1-Dichloroethene	ND		0.50		ug/L			12/21/15 16:18	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/21/15 16:18	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/21/15 16:18	1
1,2-Dichloropropane	ND		0.50		ug/L			12/21/15 16:18	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/21/15 16:18	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/21/15 16:18	1
Ethylbenzene	ND		0.50		ug/L			12/21/15 16:18	1
Hexachlorobutadiene	ND		1.0		ug/L			12/21/15 16:18	1
2-Hexanone	ND		50		ug/L			12/21/15 16:18	1
Isopropylbenzene	ND		0.50		ug/L			12/21/15 16:18	1
4-Isopropyltoluene	ND		1.0		ug/L			12/21/15 16:18	1
Methylene Chloride	ND		5.0		ug/L			12/21/15 16:18	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/21/15 16:18	1
Naphthalene	ND		1.0		ug/L			12/21/15 16:18	1
N-Propylbenzene	ND		1.0		ug/L			12/21/15 16:18	1
Styrene	ND		0.50		ug/L			12/21/15 16:18	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/21/15 16:18	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

Client Sample ID: EFF

Date Collected: 12/17/15 14:45

Date Received: 12/18/15 14:14

Lab Sample ID: 720-69316-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/21/15 16:18	1
Tetrachloroethene	ND		0.50		ug/L			12/21/15 16:18	1
Toluene	ND		0.50		ug/L			12/21/15 16:18	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/21/15 16:18	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/21/15 16:18	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/21/15 16:18	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/21/15 16:18	1
Trichloroethene	ND		0.50		ug/L			12/21/15 16:18	1
Trichlorofluoromethane	ND		1.0		ug/L			12/21/15 16:18	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/21/15 16:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/21/15 16:18	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/21/15 16:18	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/21/15 16:18	1
Vinyl acetate	ND		10		ug/L			12/21/15 16:18	1
Vinyl chloride	ND		0.50		ug/L			12/21/15 16:18	1
Xylenes, Total	ND		1.0		ug/L			12/21/15 16:18	1
2,2-Dichloropropane	ND		0.50		ug/L			12/21/15 16:18	1
Gasoline Range Organics (GRO)	ND		50		ug/L			12/21/15 16:18	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		67 - 130					12/21/15 16:18	1
1,2-Dichloroethane-d4 (Surr)	110		72 - 130					12/21/15 16:18	1
Toluene-d8 (Surr)	99		70 - 130					12/21/15 16:18	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

Client Sample ID: GAC

Date Collected: 12/17/15 14:45

Date Received: 12/18/15 14:14

Lab Sample ID: 720-69316-3

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			12/21/15 17:17	1
Acetone	ND		50		ug/L			12/21/15 17:17	1
Benzene	ND		0.50		ug/L			12/21/15 17:17	1
Dichlorobromomethane	ND		0.50		ug/L			12/21/15 17:17	1
Bromobenzene	ND		1.0		ug/L			12/21/15 17:17	1
Chlorobromomethane	ND		1.0		ug/L			12/21/15 17:17	1
Bromoform	ND		1.0		ug/L			12/21/15 17:17	1
Bromomethane	ND		1.0		ug/L			12/21/15 17:17	1
2-Butanone (MEK)	ND		50		ug/L			12/21/15 17:17	1
n-Butylbenzene	ND		1.0		ug/L			12/21/15 17:17	1
sec-Butylbenzene	ND		1.0		ug/L			12/21/15 17:17	1
tert-Butylbenzene	ND		1.0		ug/L			12/21/15 17:17	1
Carbon disulfide	ND		5.0		ug/L			12/21/15 17:17	1
Carbon tetrachloride	ND		0.50		ug/L			12/21/15 17:17	1
Chlorobenzene	ND		0.50		ug/L			12/21/15 17:17	1
Chloroethane	ND		1.0		ug/L			12/21/15 17:17	1
Chloroform	ND		1.0		ug/L			12/21/15 17:17	1
Chloromethane	ND		1.0		ug/L			12/21/15 17:17	1
2-Chlorotoluene	ND		0.50		ug/L			12/21/15 17:17	1
4-Chlorotoluene	ND		0.50		ug/L			12/21/15 17:17	1
Chlorodibromomethane	ND		0.50		ug/L			12/21/15 17:17	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/21/15 17:17	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/21/15 17:17	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/21/15 17:17	1
1,3-Dichloropropane	ND		1.0		ug/L			12/21/15 17:17	1
1,1-Dichloropropene	ND		0.50		ug/L			12/21/15 17:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/21/15 17:17	1
Ethylene Dibromide	ND		0.50		ug/L			12/21/15 17:17	1
Dibromomethane	ND		0.50		ug/L			12/21/15 17:17	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/21/15 17:17	1
1,1-Dichloroethane	ND		0.50		ug/L			12/21/15 17:17	1
1,2-Dichloroethane	ND		0.50		ug/L			12/21/15 17:17	1
1,1-Dichloroethene	ND		0.50		ug/L			12/21/15 17:17	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/21/15 17:17	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/21/15 17:17	1
1,2-Dichloropropane	ND		0.50		ug/L			12/21/15 17:17	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/21/15 17:17	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/21/15 17:17	1
Ethylbenzene	ND		0.50		ug/L			12/21/15 17:17	1
Hexachlorobutadiene	ND		1.0		ug/L			12/21/15 17:17	1
2-Hexanone	ND		50		ug/L			12/21/15 17:17	1
Isopropylbenzene	ND		0.50		ug/L			12/21/15 17:17	1
4-Isopropyltoluene	ND		1.0		ug/L			12/21/15 17:17	1
Methylene Chloride	ND		5.0		ug/L			12/21/15 17:17	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/21/15 17:17	1
Naphthalene	ND		1.0		ug/L			12/21/15 17:17	1
N-Propylbenzene	ND		1.0		ug/L			12/21/15 17:17	1
Styrene	ND		0.50		ug/L			12/21/15 17:17	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/21/15 17:17	1

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

Client Sample ID: GAC

Date Collected: 12/17/15 14:45

Date Received: 12/18/15 14:14

Lab Sample ID: 720-69316-3

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			12/21/15 17:17	1
Tetrachloroethene	ND		0.50		ug/L			12/21/15 17:17	1
Toluene	ND		0.50		ug/L			12/21/15 17:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/21/15 17:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/21/15 17:17	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/21/15 17:17	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/21/15 17:17	1
Trichloroethene	ND		0.50		ug/L			12/21/15 17:17	1
Trichlorofluoromethane	ND		1.0		ug/L			12/21/15 17:17	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/21/15 17:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/21/15 17:17	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/21/15 17:17	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/21/15 17:17	1
Vinyl acetate	ND		10		ug/L			12/21/15 17:17	1
Vinyl chloride	ND		0.50		ug/L			12/21/15 17:17	1
Xylenes, Total	ND		1.0		ug/L			12/21/15 17:17	1
2,2-Dichloropropane	ND		0.50		ug/L			12/21/15 17:17	1
Gasoline Range Organics (GRO)	ND		50		ug/L			12/21/15 17:17	1
-C5-C12									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		67 - 130					12/21/15 17:17	1
1,2-Dichloroethane-d4 (Surr)	107		72 - 130					12/21/15 17:17	1
Toluene-d8 (Surr)	97		70 - 130					12/21/15 17:17	1

TestAmerica Pleasanton

Surrogate Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (67-130)	12DCE (72-130)	TOL (70-130)
720-69316-1	INF	113	107	99
720-69316-2	EFF	103	110	99
720-69316-2 MS	EFF	116	104	99
720-69316-2 MSD	EFF	116	105	98
720-69316-3	GAC	104	107	97
LCS 720-194495/5	Lab Control Sample	113	102	99
LCS 720-194495/8	Lab Control Sample	113	108	100
LCSD 720-194495/6	Lab Control Sample Dup	117	104	98
LCSD 720-194495/9	Lab Control Sample Dup	111	105	100
MB 720-194495/4	Method Blank	103	107	97

Surrogate Legend

BFB = 4-Bromofluorobenzene

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

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

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

Lab Sample ID: MB 720-194495/4

Matrix: Water

Analysis Batch: 194495

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			12/21/15 12:24	1
Acetone	ND		50		ug/L			12/21/15 12:24	1
Benzene	ND		0.50		ug/L			12/21/15 12:24	1
Dichlorobromomethane	ND		0.50		ug/L			12/21/15 12:24	1
Bromobenzene	ND		1.0		ug/L			12/21/15 12:24	1
Chlorobromomethane	ND		1.0		ug/L			12/21/15 12:24	1
Bromoform	ND		1.0		ug/L			12/21/15 12:24	1
Bromomethane	ND		1.0		ug/L			12/21/15 12:24	1
2-Butanone (MEK)	ND		50		ug/L			12/21/15 12:24	1
n-Butylbenzene	ND		1.0		ug/L			12/21/15 12:24	1
sec-Butylbenzene	ND		1.0		ug/L			12/21/15 12:24	1
tert-Butylbenzene	ND		1.0		ug/L			12/21/15 12:24	1
Carbon disulfide	ND		5.0		ug/L			12/21/15 12:24	1
Carbon tetrachloride	ND		0.50		ug/L			12/21/15 12:24	1
Chlorobenzene	ND		0.50		ug/L			12/21/15 12:24	1
Chloroethane	ND		1.0		ug/L			12/21/15 12:24	1
Chloroform	ND		1.0		ug/L			12/21/15 12:24	1
Chloromethane	ND		1.0		ug/L			12/21/15 12:24	1
2-Chlorotoluene	ND		0.50		ug/L			12/21/15 12:24	1
4-Chlorotoluene	ND		0.50		ug/L			12/21/15 12:24	1
Chlorodibromomethane	ND		0.50		ug/L			12/21/15 12:24	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/21/15 12:24	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/21/15 12:24	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/21/15 12:24	1
1,3-Dichloropropane	ND		1.0		ug/L			12/21/15 12:24	1
1,1-Dichloropropene	ND		0.50		ug/L			12/21/15 12:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/21/15 12:24	1
Ethylene Dibromide	ND		0.50		ug/L			12/21/15 12:24	1
Dibromomethane	ND		0.50		ug/L			12/21/15 12:24	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/21/15 12:24	1
1,1-Dichloroethane	ND		0.50		ug/L			12/21/15 12:24	1
1,2-Dichloroethane	ND		0.50		ug/L			12/21/15 12:24	1
1,1-Dichloroethene	ND		0.50		ug/L			12/21/15 12:24	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/21/15 12:24	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/21/15 12:24	1
1,2-Dichloropropane	ND		0.50		ug/L			12/21/15 12:24	1
cis-1,3-Dichloropropane	ND		0.50		ug/L			12/21/15 12:24	1
trans-1,3-Dichloropropane	ND		0.50		ug/L			12/21/15 12:24	1
Ethylbenzene	ND		0.50		ug/L			12/21/15 12:24	1
Hexachlorobutadiene	ND		1.0		ug/L			12/21/15 12:24	1
2-Hexanone	ND		50		ug/L			12/21/15 12:24	1
Isopropylbenzene	ND		0.50		ug/L			12/21/15 12:24	1
4-Isopropyltoluene	ND		1.0		ug/L			12/21/15 12:24	1
Methylene Chloride	ND		5.0		ug/L			12/21/15 12:24	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/21/15 12:24	1
Naphthalene	ND		1.0		ug/L			12/21/15 12:24	1
N-Propylbenzene	ND		1.0		ug/L			12/21/15 12:24	1
Styrene	ND		0.50		ug/L			12/21/15 12:24	1

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

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

Lab Sample ID: MB 720-194495/4

Matrix: Water

Analysis Batch: 194495

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/21/15 12:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/21/15 12:24	1
Tetrachloroethene	ND		0.50		ug/L			12/21/15 12:24	1
Toluene	ND		0.50		ug/L			12/21/15 12:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/21/15 12:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/21/15 12:24	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/21/15 12:24	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/21/15 12:24	1
Trichloroethene	ND		0.50		ug/L			12/21/15 12:24	1
Trichlorofluoromethane	ND		1.0		ug/L			12/21/15 12:24	1
1,2,3-Trichloropropane	ND		0.50		ug/L			12/21/15 12:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/21/15 12:24	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/21/15 12:24	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/21/15 12:24	1
Vinyl acetate	ND		10		ug/L			12/21/15 12:24	1
Vinyl chloride	ND		0.50		ug/L			12/21/15 12:24	1
Xylenes, Total	ND		1.0		ug/L			12/21/15 12:24	1
2,2-Dichloropropane	ND		0.50		ug/L			12/21/15 12:24	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/21/15 12:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		67 - 130		12/21/15 12:24	1
1,2-Dichloroethane-d4 (Surr)	107		72 - 130		12/21/15 12:24	1
Toluene-d8 (Surr)	97		70 - 130		12/21/15 12:24	1

Lab Sample ID: LCS 720-194495/5

Matrix: Water

Analysis Batch: 194495

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	23.1		ug/L		92	62 - 130
Acetone	125	110		ug/L		88	26 - 180
Benzene	25.0	24.2		ug/L		97	79 - 130
Dichlorobromomethane	25.0	25.9		ug/L		104	70 - 130
Bromobenzene	25.0	23.6		ug/L		94	70 - 130
Chlorobromomethane	25.0	25.1		ug/L		101	70 - 130
Bromoform	25.0	25.4		ug/L		102	68 - 136
Bromomethane	25.0	25.3		ug/L		101	43 - 151
2-Butanone (MEK)	125	119		ug/L		95	54 - 130
n-Butylbenzene	25.0	24.7		ug/L		99	70 - 142
sec-Butylbenzene	25.0	25.4		ug/L		102	70 - 134
tert-Butylbenzene	25.0	24.6		ug/L		99	70 - 135
Carbon disulfide	25.0	21.7		ug/L		87	58 - 130
Carbon tetrachloride	25.0	24.8		ug/L		99	70 - 146
Chlorobenzene	25.0	23.3		ug/L		93	70 - 130
Chloroethane	25.0	24.9		ug/L		100	62 - 138
Chloroform	25.0	24.8		ug/L		99	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

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

Lab Sample ID: LCS 720-194495/5

Matrix: Water

Analysis Batch: 194495

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	24.3		ug/L		97	52 - 175
2-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130
Chlorodibromomethane	25.0	25.9		ug/L		104	70 - 145
1,2-Dichlorobenzene	25.0	22.9		ug/L		92	70 - 130
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,4-Dichlorobenzene	25.0	23.1		ug/L		92	70 - 130
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloropropene	25.0	24.0		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.6		ug/L		94	70 - 136
Ethylene Dibromide	25.0	24.7		ug/L		99	70 - 130
Dibromomethane	25.0	24.1		ug/L		96	70 - 130
Dichlorodifluoromethane	25.0	26.5		ug/L		106	34 - 132
1,1-Dichloroethane	25.0	24.0		ug/L		96	70 - 130
1,2-Dichloroethane	25.0	24.5		ug/L		98	61 - 132
1,1-Dichloroethene	25.0	20.8		ug/L		83	64 - 128
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	70 - 130
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	68 - 130
1,2-Dichloropropane	25.0	24.4		ug/L		98	70 - 130
cis-1,3-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	24.5		ug/L		98	70 - 140
Ethylbenzene	25.0	24.1		ug/L		97	80 - 120
Hexachlorobutadiene	25.0	21.3		ug/L		85	70 - 130
2-Hexanone	125	115		ug/L		92	60 - 164
Isopropylbenzene	25.0	25.7		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	24.8		ug/L		99	70 - 130
Methylene Chloride	25.0	23.1		ug/L		92	70 - 147
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		98	58 - 130
Naphthalene	25.0	21.6		ug/L		86	70 - 130
N-Propylbenzene	25.0	25.3		ug/L		101	70 - 130
Styrene	25.0	25.5		ug/L		102	70 - 130
1,1,1,2-Tetrachloroethane	25.0	22.9		ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.4		ug/L		94	70 - 130
Tetrachloroethene	25.0	23.0		ug/L		92	70 - 130
Toluene	25.0	23.5		ug/L		94	78 - 120
1,2,3-Trichlorobenzene	25.0	20.5		ug/L		82	70 - 130
1,2,4-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	70 - 130
Trichloroethene	25.0	24.3		ug/L		97	70 - 130
Trichlorofluoromethane	25.0	25.2		ug/L		101	66 - 132
1,2,3-Trichloropropane	25.0	24.0		ug/L		96	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.8		ug/L		91	42 - 162
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 132
1,3,5-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130
Vinyl acetate	25.0	28.1		ug/L		113	43 - 163
Vinyl chloride	25.0	26.0		ug/L		104	54 - 135

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

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

Lab Sample ID: LCS 720-194495/5

Matrix: Water

Analysis Batch: 194495

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	24.1		ug/L		96	70 - 142
o-Xylene	25.0	25.1		ug/L		101	70 - 130
2,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	113		67 - 130
1,2-Dichloroethane-d4 (Surr)	102		72 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCS 720-194495/8

Matrix: Water

Analysis Batch: 194495

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)	500	436		ug/L		87	62 - 120
-C5-C12							

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	113		67 - 130
1,2-Dichloroethane-d4 (Surr)	108		72 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 720-194495/6

Matrix: Water

Analysis Batch: 194495

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	24.4		ug/L		97	62 - 130	5	20
Acetone	125	126		ug/L		101	26 - 180	14	30
Benzene	25.0	24.5		ug/L		98	79 - 130	1	20
Dichlorobromomethane	25.0	26.3		ug/L		105	70 - 130	2	20
Bromobenzene	25.0	23.9		ug/L		96	70 - 130	1	20
Chlorobromomethane	25.0	25.9		ug/L		104	70 - 130	3	20
Bromoform	25.0	26.7		ug/L		107	68 - 136	5	20
Bromomethane	25.0	25.1		ug/L		100	43 - 151	1	20
2-Butanone (MEK)	125	129		ug/L		103	54 - 130	8	20
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 142	1	20
sec-Butylbenzene	25.0	25.8		ug/L		103	70 - 134	2	20
tert-Butylbenzene	25.0	25.1		ug/L		101	70 - 135	2	20
Carbon disulfide	25.0	22.5		ug/L		90	58 - 130	4	20
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 146	2	20
Chlorobenzene	25.0	23.9		ug/L		96	70 - 130	2	20
Chloroethane	25.0	24.8		ug/L		99	62 - 138	0	20
Chloroform	25.0	25.2		ug/L		101	70 - 130	2	20
Chloromethane	25.0	24.4		ug/L		98	52 - 175	0	20
2-Chlorotoluene	25.0	24.8		ug/L		99	70 - 130	2	20
4-Chlorotoluene	25.0	24.8		ug/L		99	70 - 130	1	20
Chlorodibromomethane	25.0	26.1		ug/L		105	70 - 145	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

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

Lab Sample ID: LCSD 720-194495/6

Matrix: Water

Analysis Batch: 194495

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	22.9		ug/L		92	70 - 130	0	20
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130	1	20
1,4-Dichlorobenzene	25.0	22.9		ug/L		92	70 - 130	1	20
1,3-Dichloropropane	25.0	24.9		ug/L		100	70 - 130	1	20
1,1-Dichloropropene	25.0	24.7		ug/L		99	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	24.1		ug/L		96	70 - 136	2	20
Ethylene Dibromide	25.0	25.5		ug/L		102	70 - 130	3	20
Dibromomethane	25.0	24.9		ug/L		100	70 - 130	3	20
Dichlorodifluoromethane	25.0	27.3		ug/L		109	34 - 132	3	20
1,1-Dichloroethane	25.0	24.7		ug/L		99	70 - 130	3	20
1,2-Dichloroethane	25.0	25.1		ug/L		101	61 - 132	2	20
1,1-Dichloroethene	25.0	21.2		ug/L		85	64 - 128	2	20
cis-1,2-Dichloroethene	25.0	25.1		ug/L		101	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	68 - 130	2	20
1,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	26.3		ug/L		105	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	25.1		ug/L		100	70 - 140	3	20
Ethylbenzene	25.0	24.5		ug/L		98	80 - 120	2	20
Hexachlorobutadiene	25.0	21.1		ug/L		84	70 - 130	1	20
2-Hexanone	125	124		ug/L		99	60 - 164	8	20
Isopropylbenzene	25.0	26.0		ug/L		104	70 - 130	1	20
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130	1	20
Methylene Chloride	25.0	23.7		ug/L		95	70 - 147	3	20
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		104	58 - 130	6	20
Naphthalene	25.0	22.2		ug/L		89	70 - 130	3	20
N-Propylbenzene	25.0	25.3		ug/L		101	70 - 130	0	20
Styrene	25.0	25.9		ug/L		103	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	23.3		ug/L		93	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	24.0		ug/L		96	70 - 130	2	20
Tetrachloroethene	25.0	23.0		ug/L		92	70 - 130	0	20
Toluene	25.0	23.8		ug/L		95	78 - 120	1	20
1,2,3-Trichlorobenzene	25.0	20.8		ug/L		83	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130	0	20
1,1,1-Trichloroethane	25.0	25.8		ug/L		103	70 - 130	2	20
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	70 - 130	3	20
Trichloroethene	25.0	24.9		ug/L		100	70 - 130	3	20
Trichlorofluoromethane	25.0	25.3		ug/L		101	66 - 132	0	20
1,2,3-Trichloropropane	25.0	25.5		ug/L		102	70 - 130	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.1		ug/L		92	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	25.5		ug/L		102	70 - 130	1	20
Vinyl acetate	25.0	28.0		ug/L		112	43 - 163	1	20
Vinyl chloride	25.0	26.2		ug/L		105	54 - 135	1	20
m-Xylene & p-Xylene	25.0	24.4		ug/L		98	70 - 142	2	20
o-Xylene	25.0	25.5		ug/L		102	70 - 130	1	20
2,2-Dichloropropane	25.0	26.2		ug/L		105	70 - 140	4	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

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

Lab Sample ID: LCSD 720-194495/6

Matrix: Water

Analysis Batch: 194495

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	117		67 - 130
1,2-Dichloroethane-d4 (Surr)	104		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 720-194495/9

Matrix: Water

Analysis Batch: 194495

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	441		ug/L		88	62 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	111		67 - 130
1,2-Dichloroethane-d4 (Surr)	105		72 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: 720-69316-2 MS

Matrix: Water

Analysis Batch: 194495

Client Sample ID: EFF

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		25.0	23.1		ug/L		92	60 - 138
Acetone	ND		125	99.5		ug/L		80	60 - 140
Benzene	ND		25.0	23.8		ug/L		95	60 - 140
Dichlorobromomethane	ND		25.0	25.6		ug/L		102	60 - 140
Bromobenzene	ND		25.0	22.7		ug/L		91	60 - 140
Chlorobromomethane	ND		25.0	25.0		ug/L		100	60 - 140
Bromoform	ND		25.0	25.5		ug/L		102	56 - 140
Bromomethane	ND		25.0	22.4		ug/L		90	23 - 140
2-Butanone (MEK)	ND		125	114		ug/L		91	60 - 140
n-Butylbenzene	ND		25.0	23.9		ug/L		96	60 - 140
sec-Butylbenzene	ND		25.0	24.3		ug/L		97	60 - 140
tert-Butylbenzene	ND		25.0	23.5		ug/L		94	60 - 140
Carbon disulfide	ND		25.0	21.2		ug/L		85	38 - 140
Carbon tetrachloride	ND		25.0	24.2		ug/L		97	60 - 140
Chlorobenzene	ND		25.0	22.9		ug/L		92	60 - 140
Chloroethane	ND		25.0	23.1		ug/L		92	51 - 140
Chloroform	ND		25.0	24.4		ug/L		98	60 - 140
Chloromethane	ND		25.0	22.9		ug/L		92	52 - 140
2-Chlorotoluene	ND		25.0	23.3		ug/L		93	60 - 140
4-Chlorotoluene	ND		25.0	23.5		ug/L		94	60 - 140
Chlorodibromomethane	ND		25.0	25.6		ug/L		102	60 - 140
1,2-Dichlorobenzene	ND		25.0	22.0		ug/L		88	60 - 140
1,3-Dichlorobenzene	ND		25.0	22.8		ug/L		91	60 - 140
1,4-Dichlorobenzene	ND		25.0	22.6		ug/L		91	60 - 140
1,3-Dichloropropane	ND		25.0	24.6		ug/L		98	60 - 140
1,1-Dichloropropene	ND		25.0	23.7		ug/L		95	60 - 140

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

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

Lab Sample ID: 720-69316-2 MS

Matrix: Water

Analysis Batch: 194495

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	22.3		ug/L		89	60 - 140
Ethylene Dibromide	ND		25.0	25.1		ug/L		100	60 - 140
Dibromomethane	ND		25.0	23.8		ug/L		95	60 - 140
Dichlorodifluoromethane	ND		25.0	24.4		ug/L		98	38 - 140
1,1-Dichloroethane	ND		25.0	23.5		ug/L		94	60 - 140
1,2-Dichloroethane	ND		25.0	24.4		ug/L		98	60 - 140
1,1-Dichloroethene	ND		25.0	20.2		ug/L		81	60 - 140
cis-1,2-Dichloroethene	ND		25.0	24.0		ug/L		96	60 - 140
trans-1,2-Dichloroethene	ND		25.0	23.8		ug/L		95	60 - 140
1,2-Dichloropropane	ND		25.0	23.9		ug/L		96	60 - 140
cis-1,3-Dichloropropene	ND		25.0	25.8		ug/L		103	60 - 140
trans-1,3-Dichloropropene	ND		25.0	24.6		ug/L		98	60 - 140
Ethylbenzene	ND		25.0	23.6		ug/L		94	60 - 140
Hexachlorobutadiene	ND		25.0	20.4		ug/L		82	60 - 140
2-Hexanone	ND		125	113		ug/L		90	60 - 140
Isopropylbenzene	ND		25.0	24.8		ug/L		99	60 - 140
4-Isopropyltoluene	ND		25.0	24.0		ug/L		96	60 - 140
Methylene Chloride	ND		25.0	22.3		ug/L		89	40 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	118		ug/L		94	58 - 130
Naphthalene	ND		25.0	20.7		ug/L		81	56 - 140
N-Propylbenzene	ND		25.0	24.1		ug/L		96	60 - 140
Styrene	ND		25.0	24.5		ug/L		98	60 - 140
1,1,1,2-Tetrachloroethane	ND		25.0	22.2		ug/L		89	60 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	22.3		ug/L		89	60 - 140
Tetrachloroethene	ND		25.0	22.7		ug/L		91	60 - 140
Toluene	ND		25.0	22.5		ug/L		90	60 - 140
1,2,3-Trichlorobenzene	ND		25.0	19.8		ug/L		78	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	21.0		ug/L		83	60 - 140
1,1,1-Trichloroethane	ND		25.0	24.8		ug/L		99	60 - 140
1,1,2-Trichloroethane	ND		25.0	24.6		ug/L		98	60 - 140
Trichloroethene	ND		25.0	23.8		ug/L		95	60 - 140
Trichlorofluoromethane	ND		25.0	23.7		ug/L		95	60 - 140
1,2,3-Trichloropropane	ND		25.0	23.4		ug/L		94	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.5		ug/L		90	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	23.5		ug/L		94	60 - 140
1,3,5-Trimethylbenzene	ND		25.0	24.0		ug/L		96	60 - 140
Vinyl acetate	ND		25.0	28.3		ug/L		113	40 - 140
Vinyl chloride	ND		25.0	22.9		ug/L		92	58 - 140
m-Xylene & p-Xylene	ND		25.0	23.4		ug/L		94	60 - 140
o-Xylene	ND		25.0	24.1		ug/L		96	60 - 140
2,2-Dichloropropane	ND		25.0	26.2		ug/L		105	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	116		67 - 130
1,2-Dichloroethane-d4 (Surr)	104		72 - 130
Toluene-d8 (Surr)	99		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

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

Lab Sample ID: 720-69316-2 MSD

Matrix: Water

Analysis Batch: 194495

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	24.2		ug/L		97	60 - 138	5	20
Acetone	ND		125	107		ug/L		86	60 - 140	8	20
Benzene	ND		25.0	24.5		ug/L		98	60 - 140	3	20
Dichlorobromomethane	ND		25.0	26.8		ug/L		107	60 - 140	5	20
Bromobenzene	ND		25.0	23.7		ug/L		95	60 - 140	4	20
Chlorobromomethane	ND		25.0	25.9		ug/L		104	60 - 140	3	20
Bromoform	ND		25.0	27.2		ug/L		109	56 - 140	7	20
Bromomethane	ND		25.0	22.9		ug/L		92	23 - 140	2	20
2-Butanone (MEK)	ND		125	121		ug/L		97	60 - 140	6	20
n-Butylbenzene	ND		25.0	24.8		ug/L		99	60 - 140	4	20
sec-Butylbenzene	ND		25.0	25.3		ug/L		101	60 - 140	4	20
tert-Butylbenzene	ND		25.0	24.4		ug/L		97	60 - 140	4	20
Carbon disulfide	ND		25.0	22.2		ug/L		89	38 - 140	4	20
Carbon tetrachloride	ND		25.0	25.6		ug/L		102	60 - 140	6	20
Chlorobenzene	ND		25.0	23.8		ug/L		95	60 - 140	4	20
Chloroethane	ND		25.0	22.9		ug/L		92	51 - 140	1	20
Chloroform	ND		25.0	25.2		ug/L		101	60 - 140	3	20
Chloromethane	ND		25.0	24.5		ug/L		98	52 - 140	7	20
2-Chlorotoluene	ND		25.0	24.7		ug/L		99	60 - 140	6	20
4-Chlorotoluene	ND		25.0	24.7		ug/L		99	60 - 140	5	20
Chlorodibromomethane	ND		25.0	26.8		ug/L		107	60 - 140	5	20
1,2-Dichlorobenzene	ND		25.0	22.8		ug/L		91	60 - 140	4	20
1,3-Dichlorobenzene	ND		25.0	23.5		ug/L		94	60 - 140	3	20
1,4-Dichlorobenzene	ND		25.0	23.2		ug/L		93	60 - 140	2	20
1,3-Dichloropropane	ND		25.0	25.3		ug/L		101	60 - 140	3	20
1,1-Dichloropropene	ND		25.0	24.6		ug/L		98	60 - 140	4	20
1,2-Dibromo-3-Chloropropane	ND		25.0	24.6		ug/L		98	60 - 140	10	20
Ethylene Dibromide	ND		25.0	26.0		ug/L		104	60 - 140	4	20
Dibromomethane	ND		25.0	24.7		ug/L		99	60 - 140	4	20
Dichlorodifluoromethane	ND		25.0	24.6		ug/L		99	38 - 140	1	20
1,1-Dichloroethane	ND		25.0	24.7		ug/L		99	60 - 140	5	20
1,2-Dichloroethane	ND		25.0	25.5		ug/L		102	60 - 140	4	20
1,1-Dichloroethene	ND		25.0	21.1		ug/L		84	60 - 140	5	20
cis-1,2-Dichloroethene	ND		25.0	24.7		ug/L		99	60 - 140	3	20
trans-1,2-Dichloroethene	ND		25.0	24.8		ug/L		99	60 - 140	4	20
1,2-Dichloropropane	ND		25.0	25.4		ug/L		102	60 - 140	6	20
cis-1,3-Dichloropropene	ND		25.0	26.5		ug/L		106	60 - 140	3	20
trans-1,3-Dichloropropene	ND		25.0	25.8		ug/L		103	60 - 140	5	20
Ethylbenzene	ND		25.0	24.2		ug/L		97	60 - 140	2	20
Hexachlorobutadiene	ND		25.0	21.0		ug/L		84	60 - 140	3	20
2-Hexanone	ND		125	117		ug/L		94	60 - 140	4	20
Isopropylbenzene	ND		25.0	25.8		ug/L		103	60 - 140	4	20
4-Isopropyltoluene	ND		25.0	25.0		ug/L		100	60 - 140	4	20
Methylene Chloride	ND		25.0	23.5		ug/L		94	40 - 140	5	20
4-Methyl-2-pentanone (MIBK)	ND		125	123		ug/L		98	58 - 130	4	20
Naphthalene	ND		25.0	21.7		ug/L		85	56 - 140	5	20
N-Propylbenzene	ND		25.0	25.5		ug/L		102	60 - 140	5	20
Styrene	ND		25.0	25.6		ug/L		102	60 - 140	4	20

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

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

Lab Sample ID: 720-69316-2 MSD

Matrix: Water

Analysis Batch: 194495

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	23.1		ug/L		92	60 - 140	4	20
1,1,2,2-Tetrachloroethane	ND		25.0	23.6		ug/L		94	60 - 140	6	20
Tetrachloroethene	ND		25.0	23.8		ug/L		95	60 - 140	5	20
Toluene	ND		25.0	23.2		ug/L		93	60 - 140	3	20
1,2,3-Trichlorobenzene	ND		25.0	20.8		ug/L		82	60 - 140	5	20
1,2,4-Trichlorobenzene	ND		25.0	22.0		ug/L		88	60 - 140	5	20
1,1,1-Trichloroethane	ND		25.0	26.0		ug/L		104	60 - 140	5	20
1,1,2-Trichloroethane	ND		25.0	25.9		ug/L		104	60 - 140	5	20
Trichloroethene	ND		25.0	24.7		ug/L		99	60 - 140	3	20
Trichlorofluoromethane	ND		25.0	24.2		ug/L		97	60 - 140	2	20
1,2,3-Trichloropropane	ND		25.0	24.6		ug/L		98	60 - 140	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	23.8		ug/L		95	60 - 140	6	20
1,2,4-Trimethylbenzene	ND		25.0	24.4		ug/L		98	60 - 140	4	20
1,3,5-Trimethylbenzene	ND		25.0	25.0		ug/L		100	60 - 140	4	20
Vinyl acetate	ND		25.0	29.5		ug/L		118	40 - 140	4	20
Vinyl chloride	ND		25.0	23.3		ug/L		93	58 - 140	2	20
m-Xylene & p-Xylene	ND		25.0	24.3		ug/L		97	60 - 140	4	20
o-Xylene	ND		25.0	25.1		ug/L		100	60 - 140	4	20
2,2-Dichloropropane	ND		25.0	26.4		ug/L		106	60 - 140	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene	116		67 - 130								
1,2-Dichloroethane-d4 (Surr)	105		72 - 130								
Toluene-d8 (Surr)	98		70 - 130								

TestAmerica Pleasanton

QC Association Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

GC/MS VOA

Analysis Batch: 194495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-69316-1	INF	Total/NA	Water	8260B/CA_LUFT MS	
720-69316-2	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-69316-2 MS	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-69316-2 MSD	EFF	Total/NA	Water	8260B/CA_LUFT MS	
720-69316-3	GAC	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-194495/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-194495/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-194495/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-194495/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-194495/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

TestAmerica Pleasanton

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

Client Sample ID: INF

Date Collected: 12/17/15 14:45

Date Received: 12/18/15 14:14

Lab Sample ID: 720-69316-1

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	194495	12/21/15 16:48	YB1	TAL PLS

Client Sample ID: EFF

Date Collected: 12/17/15 14:45

Date Received: 12/18/15 14:14

Lab Sample ID: 720-69316-2

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	194495	12/21/15 16:18	YB1	TAL PLS

Client Sample ID: GAC

Date Collected: 12/17/15 14:45

Date Received: 12/18/15 14:14

Lab Sample ID: 720-69316-3

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	194495	12/21/15 17:17	YB1	TAL PLS

Laboratory References:

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

Certification Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

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	

* Certification renewal pending - certification considered valid.

TestAmerica Pleasanton

Method Summary

Client: Ninyo & Moore
Project/Site: Chun

TestAmerica Job ID: 720-69316-1

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: 720-69316-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-69316-1	INF	Water	12/17/15 14:45	12/18/15 14:14
720-69316-2	EFF	Water	12/17/15 14:45	12/18/15 14:14
720-69316-3	GAC	Water	12/17/15 14:45	12/18/15 14:14

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

720-69316

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

Reference #: 169708

Date 12/17 Page 1 of 1

Report To

Attn: Peter Sims

Company: Ningo and Moore

Address: 1950 Webster St, Suite 400, Oakland

Email: p.sims@ningoandmoore.com

Bill To: P. Sims

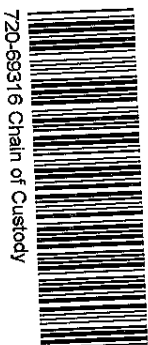
Sampled By: E. Dursen

Attn: P. Sims

Phone: 510 343 3000

Sample ID: Date: Time: Met: Preserv:

INF 12/17 14:45 EW H4
CFF ↓ ↓ ↓ ↓
CAC



720-69316 Chain of Custody

Project Info Sample Receipt

Project Name / #: 4016910004

Head Space: Chor

PO#: Temp: 4.8°C

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

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

*See Terms and Conditions on reverse

Analysis Request

Volatile Organics GC/MS (VOCs)
EPA 8260B + TPHg

HVOCs by ☐ EPA 8260B

EPA 8260B: ☐ Gas ☐ BTEX
☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol

TEPH EPA 8015B ☐ Silica Gel
☐ Diesel ☐ Motor Oil ☐ Other

SemiVolatile Organics GC/MS
☐ EPA 8270C

PNA/PAH's by ☐ 8270C
☐ 8270C SIM

Oil and Grease ☐ Petroleum
(EPA 1664/9071) ☐ Total

Pesticides ☐ EPA 8081
PCBs ☐ EPA 8082

CAM17 Metals
(EPA 8010/7470/7471)

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

1) Relinquished by:

Signature: [Signature] Time: 1546
Printed Name: Emily Dursen Date: 12/17

Company: Ningo and Moore

2) Relinquished by:

Signature: [Signature] Time: 12:26
Printed Name: Kris Larsen Date: 12/18

Company: Ningo and Moore

3) Relinquished by:

Signature: [Signature] Time: 19:19
Printed Name: Victor Nemo Date: 12/18/15

Company: Victor Nemo

1) Received by:

Signature: [Signature] Time: 1540
Printed Name: Jason Gant Date: 12/17

Company: Ningo and Moore

2) Received by:

Signature: [Signature] Time: 926
Printed Name: Victor Nemo Date: 12/18/15

Company: Victor Nemo

3) Received by:

Signature: [Signature] Time: 1414
Printed Name: Dennis Moore Date: 12/18/15

Company: Victor Nemo

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-69316-1

Login Number: 69316

List Number: 1

Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

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

APPENDIX D

GROUNDWATER MONITORING DATA SHEETS

MONITORING WELL SAMPLING FORM

Date:

10 Nov. 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: <i>CMD</i>	

Note: All measurements from top of casing.

Well Location:

WELL NO. <i>MW-4R</i>	Depth to Liquid (DL): <i>10.24</i>	
Casing Material: PVC	Depth to Water (DW1): <i>10.24</i>	
Diameter: 2"	Product Thickness (PT=DW1-DL): <i>0</i>	
Well Head Condition: <i>good</i>	Total Well Depth (TD): <i>25.17</i>	
Well Box Condition: <i>good</i>	Total head (TH=TD-DW1): <i>14.93</i>	
Purge Method: <i>Bailor Pump</i>	Casing Volume (TH*Factor): <i>2.4</i>	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

7.2 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
<i>0948</i>	<i>2.5 gal</i>	<i>20.91</i>	<i>510</i>	<i>6.94</i>	<i>4.30</i>	<i>-23</i>	<i>318</i>	
<i>0955</i>	<i>5.4</i>	<i>21.73</i>	<i>627</i>	<i>6.00</i>	<i>4.38</i>	<i>-37</i>	<i>941</i>	
<i>1001</i>	<i>7.5</i>	<i>21.61</i>	<i>607</i>	<i>6.19</i>	<i>4.97</i>	<i>-58</i>	<i>1000</i>	<i>→ Flashed 1000</i>

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
<i>1006</i>	<i>MW-4R</i>										

Additional Comments

MONITORING WELL SAMPLING FORM

Date:

10 November 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: <i>GED</i>	

Note: All measurements from top of casing.

Well Location:

WELL NO. <i>MW-5R</i>	Depth to Liquid (DL): <i>8.58</i>	
Casing Material: PVC	Depth to Water (DW1): <i>8.58</i>	
Diameter: 2"	Product Thickness (PT=DW1-DL): <i>0</i>	
Well Head Condition: <i>good</i>	Total Well Depth (TD): <i>23.78</i>	
Well Box Condition: <i>good</i>	Total head (TH=TD-DW1): <i>15.2</i>	
Purge Method: <i>P. Pump</i>	Casing Volume (TH*Factor): <i>2.4</i>	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

7.3 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
<i>1124</i>	<i>2.5g</i>	<i>21.25</i>	<i>720</i>	<i>6.30</i>	<i>4.15</i>	<i>-73</i>	<i>205</i>	
<i>1135</i>	<i>5g</i>	<i>21.0</i>	<i>723</i>	<i>6.45</i>	<i>4.52</i>	<i>-74</i>	<i>223</i>	<i>90.2 mV</i>
<i>1148</i>	<i>7.5g</i>	<i>20.87</i>	<i>712</i>	<i>6.63</i>	<i>4.61</i>	<i>-72</i>	<i>61.6</i>	

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
<i>1150</i>											

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 11/10/2015
--------------------------------------	------------------

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:
WELL NO. mwt-12	Depth to Liquid (DL): 8.74	
Casing Material: PVC	Depth to Water (DW1): 8.74	
Diameter: 2"	Product Thickness (PT=DW1-DL): 0	
Well Head Condition: good	Total Well Depth (TD): 25.13	
Well Box Condition: good	Total head (TH=TD-DW1): 16.39	
Purge Method: p. pump	Casing Volume (TH*Factor): 2.4	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1208	2.5g	21.6	790	5.93	5.02	37	31.8	
1217	5g	22.68	865	6.22	5.76	145	19.1	
1226	7.5g	22.77	823	6.45	0.58	124	14.6	

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
1232	mwt-12										

Additional Comments
well cover missing, replaced 11/11

MONITORING WELL SAMPLING FORM

Date:

11/10/15

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: <i>CRD</i>	

Note: All measurements from top of casing.

Well Location:

WELL NO. <i>mw-7R</i>	Depth to Liquid (DL): <i>9.77</i>	
Casing Material: PVC	Depth to Water (DW1): <i>9.77</i>	
Diameter: 2"	Product Thickness (PT=DW1-DL): <i>0</i>	
Well Head Condition: <i>good</i>	Total Well Depth (TD): <i>25.22</i>	
Well Box Condition: <i>good</i>	Total head (TH=TD-DW1): <i>15.45</i>	
Purge Method: <i>p.pump</i>	Casing Volume (TH*Factor): <i>2.5</i>	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

7.4 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1241	2.5g	22.42	759	5.81	2.30	56	85.4	
1250	5.2g	21.94	721	5.78	2.50	9	33.9	
1259	7.5g	22.08	716	5.87	0.34	1	49.5	

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
1305											

Additional Comments

MONITORING WELL SAMPLING FORM

Date:

10 Nov 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:

WELL NO. MW-8	Depth to Liquid (DL): 9.02	
Casing Material: PVC	Depth to Water (DW1): 9.02	
Diameter: 2"	Product Thickness (PT=DW1-DL): 0	
Well Head Condition: good	Total Well Depth (TD): 14.19	
Well Box Condition: good	Total head (TH=TD-DW1): 5.17	
Purge Method: bailer	Casing Volume (TH*Factor): 0.83	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023 2.5 gal purge		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1517	1g	21.38	272	6.53	4.50	16	344	
1517	25	21.48	451	6.60	4.77	-92	814	
1523	3g	21.9	462	6.56	7.06	-96	805	

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
1528											

Additional Comments

MONITORING WELL SAMPLING FORM

Date:

10 Nov. 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: <i>ERD</i>	

Note: All measurements from top of casing.

Well Location:

WELL NO. <i>MW-9</i>	Depth to Liquid (DL): <i>8.74</i>	
Casing Material: PVC	Depth to Water (DW1): <i>8.74</i>	
Diameter: 2"	Product Thickness (PT=DW1-DL): <i>0</i>	
Well Head Condition: <i>good</i>	Total Well Depth (TD): <i>15.03</i>	
Well Box Condition: <i>good</i>	Total head (TH=TD-DW1): <i>6.27</i>	
Purge Method: <i>bailler</i>	Casing Volume (TH*Factor): <i>1.00</i>	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

3 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
<i>1418</i>	<i>1g</i>	<i>23.44</i>	<i>556</i>	<i>6.05</i>	<i>1.57</i>	<i>11</i>	<i>193</i>	
<i>1421</i>	<i>2g</i>	<i>24.00</i>	<i>353</i>	<i>7.00</i>	<i>3.93</i>	<i>2</i>	<i>842</i>	
<i>1424</i>	<i>3g</i>	<i>22.14</i>	<i>138</i>	<i>6.82</i>	<i>4.75</i>	<i>71</i>	<i>956</i>	

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
<i>1428</i>											

Additional Comments

MONITORING WELL SAMPLING FORM

Date:

10 Nov 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: <i>WJ</i>	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-10	Depth to Liquid (DL): 8.73	
Casing Material: PVC	Depth to Water (DW1): 8.73	
Diameter: 2"	Product Thickness (PT=DW1-DL): 0	
Well Head Condition: good	Total Well Depth (TD): 13.15	
Well Box Condition: good	Total head (TH=TD-DW1): 4.42	
Purge Method: bailer	Casing Volume (TH*Factor): 0.71	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023 <i>0.71 * 3 = 2.12 gal purge</i>		

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1447	0.75g	22.11	198	6.91	4.83	86	543	
1449	1.5g	21.79	231	7.19	4.23	101	0.00	planned 0.00
1451	2.25g	21.56	242	6.77	4.00	133	0.00	✓

Well Recovery Data

Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information

Time	Sample ID	Temp (°F)	PH	Cond (µS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER
1455											

Additional Comments

MONITORING WELL SAMPLING FORM

Date:

11 Nov 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: Curo	

Note: All measurements from top of casing.

Well Location:

WELL NO. mw-11r	Depth to Liquid (DL): 11.20
Casing Material: PVC	Depth to Water (DW1): 11.20
Diameter: 2"	Product Thickness (PT=DW1-DL): 0
Well Head Condition: good	Total Well Depth (TD): 23.87
Well Box Condition: good	Total head (TH=TD-DW1): 12.67
Purge Method: p-pump	Casing Volume (TH*Factor): 2.02
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023	

6.1 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1241	2	20.10	450	6.64	0.40	-20	43.3	
1250	4	20.11	313	6.66	0.46	-163	25.8	
1259	6	20.18	341	6.69	4.08	-161	45.3	

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
1306											

Additional Comments

MONITORING WELL SAMPLING FORM

Date:

11 Nov 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: *rel*

Note: All measurements from top of casing.

Well Location:

WELL NO. *mw-12* Depth to Liquid (DL): *11.12*

Casing Material: PVC Depth to Water (DW1): *11.12*

Diameter: 2" Product Thickness (PT=DW1-DL): *0*

Well Head Condition: *good* Total Well Depth (TD): *24.58*

Well Box Condition: *good* Total head (TH=TD-DW1): *13.46*

Purge Method: *e-pump* Casing Volume (TH*Factor): *2.2*

Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft.

$\frac{1}{2}$ " = 0.01; $\frac{3}{4}$ " = 0.023

6.4 gal purge

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
<i>1109</i>	<i>2 g</i>	<i>17.64</i>	<i>218</i>	<i>7.23</i>	<i>4.36</i>	<i>-21</i>	<i>294</i>	
<i>1208</i>	<i>4 g</i>	<i>19.70</i>	<i>572</i>	<i>6.65</i>	<i>0.00</i>	<i>-15</i>	<i>31.4</i>	
<i>1217</i>	<i>6 g</i>	<i>20.35</i>	<i>524</i>	<i>6.67</i>	<i>0.43</i>	<i>-7</i>	<i>9.82</i>	

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
<i>1217</i>											

Additional Comments

MONITORING WELL SAMPLING FORM

Date:

11 Nov 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: <i>WPR</i>	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-13	Depth to Liquid (DL): 10.26	
Casing Material: PVC	Depth to Water (DW1): 10.24	
Diameter: 2"	Product Thickness (PT=DW1-DL): 0	
Well Head Condition: <i>good</i>	Total Well Depth (TD): 20.32	
Well Box Condition: <i>good</i>	Total head (TH=TD-DW1): 10.08	
Purge Method: <i>variable</i>	Casing Volume (TH*Factor): 1.6	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		4.8 gal

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1029	1.5g	14.71	395	4.73	7.06	109	56	
1032	3g	15.54	717	6.67	6.89	118	214	
1038	4.5g	16.61	859	6.74	9.93	114	890	

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
1042											

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 11 Nov 2015
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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: gap	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-14	Depth to Liquid (DL): 10.07	
Casing Material: PVC	Depth to Water (DW1): 10.07	
Diameter: 2"	Product Thickness (PT=DW1-DL): 0	
Well Head Condition: good	Total Well Depth (TD): 11.48	
Well Box Condition: good	Total head (TH=TD-DW1): 1.41	
Purge Method: booster	Casing Volume (TH*Factor): 0.25	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023		

Time	Vol. Purged	Temp (°F/°C)	Cond (S/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
1059	0.25	16.75	639	7.09	9.87	64	26.1	
1103	0.5	16.47	55	7.68	9.70	-44	30.5	
1107	0.75	16.33	5	7.83	9.70	-32	23.3	

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
1116											

Additional Comments

cannot get full boiler, smells of hydrocarbons

MONITORING WELL SAMPLING FORM

Date:

11 Nov 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: <i>can</i>	

Note: All measurements from top of casing.

Well Location:

WELL NO. <i>MW-105</i>	Depth to Liquid (DL): <i>11.38</i>	
Casing Material: PVC	Depth to Water (DW1): <i>11.38</i>	
Diameter: 2"	Product Thickness (PT=DW1-DL): <i>0</i>	
Well Head Condition: <i>good</i>	Total Well Depth (TD): <i>29.68</i>	
Well Box Condition: <i>good</i>	Total head (TH=TD-DW1): <i>18.3</i>	
Purge Method: <i>bailor</i>	Casing Volume (TH*Factor): <i>2.93</i>	
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023 <i>9 gal purge</i>		

Time	Vol. Purged	Temp (°F/°C)	Cond (uS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
<i>1434</i>	<i>3g</i>	<i>21.3</i>	<i>496</i>	<i>6.89</i>	<i>8.12</i>	<i>2</i>	<i>46.7</i>	
<i>1441</i>	<i>6g</i>	<i>21.57</i>	<i>296</i>	<i>7.01</i>	<i>6.87</i>	<i>63</i>	<i>290</i>	<i>Good conductivity</i>
<i>1450</i>	<i>9g</i>	<i>20.47</i>	<i>438</i>	<i>6.97</i>	<i>6.91</i>	<i>72</i>	<i>1000</i>	<i>Placed 1000</i>

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
<i>1455</i>											

Additional Comments

MONITORING WELL SAMPLING FORM	Date: 11 Nov 2015
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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: Curo	

Note: All measurements from top of casing.

Well Location:

WELL NO. MW-14	Depth to Liquid (DL): 16.34
Casing Material: PVC	Depth to Water (DW1): 10.34
Diameter: 2"	Product Thickness (PT=DW1-DL): 0
Well Head Condition: good	Total Well Depth (TD): 29.43
Well Box Condition: good	Total head (TH=TD-DW1): 19.29
Purge Method: bailer	Casing Volume (TH*Factor): 3.1
Casing Vol. Conv. Factors: 2" = 0.16; 3" = 0.36; 4" = 0.65; 6" = 1.5 gal/ft. 1/2" = 0.01; 3/4" = 0.023	
9.3 gal/purge	

Time	Vol. Purged	Temp (°F/°C)	Cond (µS/cm)	pH	DO (mg/l)	ORP (mV)	Turb (NTU)	Remarks
0710	3 gal	20.44	379	6.64	8.76	-18	41.6	
0925	6 gal	17.84	254	6.72	5.96	85	101	
0935	9 gal	18.10	274	6.77	6.11	91	142	

Well Recovery Data		
Time	Depth to Water (DW2)	% Recovery (1-[DW2-DW1]/DW1)*100

Sample Information											
Time	Sample ID	Temp (°F)	PH	Cond (µS/cm)	Turb (NTU)	TPH-g	TPH-d	BTEX /MTBE	8260	8010	OTHER
0740											

Additional Comments
