AECOM Environment

Prepared for:
Superfund Standby Program
NYSDEC
Albany, NY

Prepared by:
AECOM
Chestnut Ridge, NY
60277021
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# Groundwater Sampling Report (May 2016 Sampling Event) Liberty Industrial Finishing Site Site #1-52-108 Work Assignment No. D007626-17.1

Final

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# 1.0 Introduction

AECOM Technical Services Northeast, Inc. (AECOM) has prepared this Groundwater Monitoring Report for the Liberty Industrial Finishing Site in Brentwood, New York (Site No. 1-52-108). This work was performed for the New York State Department of Environmental Conservation (NYSDEC) under Work Assignment D007626-17.1. Sampling rounds 1 through 5 were conducted by AECOM under Work Assignment D004445-14. As part of the long-term monitoring plan for the Site, groundwater samples are collected from selected monitoring wells once every five quarters. This groundwater monitoring report provides the results of the groundwater sampling data collected in May 2016.

Nine rounds of groundwater sampling have been conducted at the Site since 2006 when long term monitoring began.

- The first round (Round 1) of sampling was conducted in June 2006.
- The second round (Round 2) of sampling was conducted in August 2007.
- The third round of sampling (Round 3) was conducted in November 2008.
- The fourth round (Round 4) of sampling conducted in March 2010.
- The fifth round (Round 5) of sampling was conducted in May 2011.
- The sixth round (Round 6) of sampling was conducted in August 2012.
- The seventh round (Round 7) of samples was conducted in November 2013.
- The eighth round (Round 8) of samples was collected in March 2015.
- The ninth round (Round 9) of samples was collected in May 2016.

This report focuses on the most recent (Round 9) sampling event at the site and includes the data from the earlier rounds.

# 2.0 Background Information

## 2.1 Site Description

The Liberty Industrial Finishing Superfund site is located at 550 Suffolk Avenue, Brentwood, Suffolk County, New York (see Figure 1).

The Site is approximately 3.9 acres in total area of which 1.3 acres are historically undeveloped. The remainder of the site consists of previously developed areas with remnants of the former building (concrete floor slab), walkways, parking lots, and driveway areas. The Site is located in an area that is primarily residential and light commercial. A Site location map is included as Figure 1.

The Site is bound to the north by Suffolk Avenue, to the east by commercial properties, to the south by the Long Island Rail Road (LIRR), and to the west by a gasoline retailer and a shopping plaza. The parcels immediately north of Suffolk Avenue are undeveloped. Immediately south of the LIRR are the Town of Islip Athletic fields and the water supply wells for the Brentwood Water District. The Brentwood municipal water supply wells are less than 500 feet south of the Site.

## 2.2 Site History

Liberty Industrial Finishing Products was a metal finishing facility engaged in finishing and plating of components used primarily in the aircraft industry. Metal finishing activities included passivation, phosphatization, electroplating, conversion coating, anodizing, painting, and non-destructive testing. Industrial operation of the facility spanned the period from 1978 through 1997. When active, the industrial operation at the Site included a 30,000-square foot factory building, six underground storage tanks (USTs) for plating process and wastewater, sanitary leaching pools, and stormwater drywells. The USTs were equipped with “emergency” overflow pipes that discharged to the on-site leaching pools.

Shortly after operations began at the Site, concerns for public health and the environment resulting from operational and waste handling practices at the Site were investigated by the Suffolk County Department of Health Services (SCDHS). In 1982, surface and subsurface discharges of waste water were addressed in an Order of Consent between Liberty and the SCDHS. Corrective actions were implemented to eliminate the discharge of industrial waste water to the environment and the order was reportedly satisfied.

An inspection conducted by NYSDEC in 1984 identified deficiencies in Site hygiene and waste handling practices. Samples were collected of the liquids in the sanitary leaching pool, the storm water dry well, and a soil sample was collected near the northeast corner of the building. The sanitary system and the storm water dry well were subsequently pumped out and cleaned (July 1985).

A Phase II Site Investigation was performed in 1987 and a Phase II Supplemental Site Investigation was performed in 1991. An emergency remedial measure removed a total of 45 inches of sediment/soil from the bottom of the leaching pool (1992). As a result of the Phase II supplemental site investigation, the Site was reclassified as a Class "2" site on the Registry of Inactive Hazardous Waste Disposal Sites in February of 1994.

A Consent Order (March 1996) required that the facility conduct a Focused Remedial Investigation (FRI) to determine the extent of contamination within the six USTs and the emergency leaching pool. FRI activities were never implemented by Liberty Industrial Finishing due to financial constraints.

In 1997, Liberty Industrial Finishing removed waste materials from the on-site building.

A Remedial Investigation (RI) was performed in 1997-1998 for NYSDEC by Dvirka and Bartilucci. Based on the RI, the NYSDEC conducted a supplemental Remedial Investigation/Feasibility Study (RI/FS) of the Site in 1997-1998. The results and conclusions of the supplemental RI/FS were documented in a report by Dvirka and Bartilucci dated September, 1999. Elevated concentrations of regulated metals, specifically chromium, were reported in excess of the applicable cleanup criteria in surface and subsurface soils, drainage structures, and on-site and off-site groundwater.

A Record of Decision (ROD) for the Site was issued by NYSDEC in March 1999. The ROD specified the site related contaminants of concern to include semivolatile organic compounds (phenol, benzo(k)anthracene, chrysene, and benzo(a)pyrene) in the sediment/sludge from the stormwater dry wells and metals (cadmium, chromium, copper, nickel, and zinc) in all media.

The United States Environmental Protection Agency (USEPA) conducted an emergency removal action including the removal of waste materials stored in the on-site factory building and the in-place closure of six USTs. The tanks were not removed due to the close proximity of the LIRR; however, UST in-place closure was determined to be equally protective of human health and the environment. A non-porous asphalt cap was constructed over the UST area to mitigate infiltration of precipitation into the contaminant source area (Figure 2).

All of the removal and in-place closure measures specified in the ROD were completed in September 2001. The results of these remedial actions were reported in the Final Remediation Report (Dvirka and Bartilucci, July 2002).

## 2.3 Deviations from the Site Management Plan

There were no deviations from the Site Management Plan (AECOM, 2014) during this round of sampling.

# 3.0 Field Activities

The monitoring well survey information could not be located at the start of this project. As a part of this long-term monitoring program, each of the eight wells included in the sampling program were re-surveyed by YEC, Inc., a licensed New York State surveyor on March 21, 2007. A summary of well construction data is presented on Table 1.

The ninth round of groundwater sampling at the Liberty Industrial Finishing Site occurred on May 9, 10 and 11, 2016. Sampling was conducted in accordance with the Site Management Plan ([SMP] AECOM, September 2014). All field work was performed in Level D personal protection. Groundwater samples were collected using a bladder pump employing low flow sampling techniques. Field measurements of temperature, conductivity, dissolved oxygen, pH, oxygen reduction potential and turbidity were collected at approximately five-minute intervals. A sample was collected when parameters had stabilized for three consecutive readings. Both unfiltered and filtered groundwater samples were collected; filtered samples were field filtered using 0.45 micro filters. Purge forms are included as Appendix A.

## 3.1 Water Level Survey

Prior to the start of sampling, water levels were measured in each well to provide a synoptic event. Groundwater level measurements were recorded in the Field Notebook and on the Well Sampling Forms included in Appendix A. NYSDEC Monitoring Well Field Inspection Forms were completed for each well and are included in Appendix B. A summary of groundwater elevation measurements for all sampling events since 2006 is provided in Table 2. Each location was photo-documented and a hand-held global positioning system (GPS) unit was used to record the coordinates. The total depth of each of the 14 wells also varies significantly from 42.5 to 265 feet (ft). The groundwater elevation data are shown on Figure 3.

A groundwater hydrograph is presented in Figure 4. As shown on the figure, the groundwater elevations are very consistent from sampling event to sampling, generally rising and falling in unison. This trend was not present in the November 2013 sampling event. Using the previous August 2007 to November 2008 elevations to predict the trend for this round, the groundwater elevations should have dropped. This was not the case for three wells which exhibited rising water levels and three additional wells that did not drop in unison with the other wells. This is most evident in the four shallow wells along the southern property boundary, MW-2, MW-3, and MW-4, which are less than 100 ft apart. During the previous two sampling events, the groundwater elevations in these four wells were all within a few inches of each other and moved in unison from May 2011 to August 2012. During the November 2013 event, the water table in MW-2 rose significantly, decreased at MW-3, and dropped significantly at MW-4 so that the difference between MW-2 and MW-4 was over 3 ft. Several other wells deviated from the previous trends. The reason for these deviations is unknown at this time. The

long term trend appears to have returned for the March 2015 and May 2016 rounds with most elevations back to their relative positions as note during the May 2011 and August 2012 events.

## 3.2 May 2016 Groundwater Sampling Event

Thirteen monitoring wells were identified for long term monitoring at the Site. The selected wells include MW-2, MW-3, MW-4, MW-5, MW-6, MW-18, MW-19, MW-10, MW-16, MW-12, MW-14, MW-20, and MW-21. Well locations are shown on Figure 2.

During previous sampling events, a Grundfos Redi-Flo2 submersible electric pump was used to purge at least three casing volumes of water prior to sampling. Groundwater samples were then collected using a Teflon bailer.

During the Round 6, 7, 8 and 9 sampling events, groundwater samples were collected using low-flow techniques as detailed in the SMP. A bladder pump with poly discharge tubing was used to purge each monitoring well. An in-line flow cell was used to collect measurements of pH, specific conductance, temperature, dissolved oxygen, oxygen reduction potential, and turbidity. The measurements were recorded on the Well Sampling Forms at five minute intervals during purging. Samples were collected after the field measurements had stabilized. The sample was collected into laboratory supplied containers and stored in an ice-filled cooler. During this round, filtered metals samples were also collected. Groundwater samples were filtered in the field using dedicated, disposable 0.45-micron filters. Filtered groundwater samples were then poured into laboratory-supplied containers and placed in an ice-filled cooler. The samples were then transported to Hampton-Clarke Veritech Laboratory via laboratory courier. Proper chain-of-custody procedures and requirements were maintained throughout the sampling event in accordance with the SMP.

## 3.3 Site Inspection

In accordance with the SMP, the Site was inspected on May 11, 2016 as part of the 5-quarterly sampling event. The site inspection form is included in Appendix C. The Site is in general disrepair. There is evidence of unauthorized entry on to the property (homeless people and local youth who use the property for skateboarding). Vegetation growth at the Site is uncontrolled. The Site is littered with trash.

The lock on the main gate is missing. There is general trash scattered across the site. The condition of the asphalt cap is moderate. There are several visible cracks in the pavement with weds growing in the cracks. The inspection form is included in Appendix C.

# 4.0 Sampling Results

The samples from monitoring wells MW-2, MW-3, MW-4, MW-5, MW-6, MW-10, MW-12, MW-14, MW-16, MW-18, MW-19, MW-20, and MW-21 were labeled with the L- prefix to denote they were collected from the Liberty site. Groundwater samples were analyzed for target analyte list (TAL) metals using USEPA Method 6010/7470. The analyses were performed by Hampton Clarke Veritech (HCV), Fairfield, New Jersey, a NYSDOH ELAP certified laboratory (ELAP certification number 11408). The HCV data summary packages are included in Appendix D. A table showing the full data set is also included in Appendix D. A summary of the detections is presented in Table 3. The exceedances are also shown on Figure 5. The data are discussed in Sections 4.1 and 4.2, below.

In accordance with project plans, formal data validation was not performed. However, an AECOM chemist provided a limited review of the data packages. The review of the Round 9 data is presented in Section 4.3.

## 4.1 Metals Data

Concentrations of ten metals have been detected above the Class GA criterion in monitoring wells at the Site at least once during the nine sampling events. These metals include antimony, cadmium, chromium, copper, iron, lead, manganese, selenium, sodium and thallium. Results of the previous nine sampling events are summarized on Table 3. The Round 9 results are shown on Figure 5.

**Contaminants of Concern and Cleanup Criteria**

| Groundwater (µg/L) | | |
|---|---|---|
| Cadmium | 10 | * (5) |
| Chromium | 50 | |
| Copper | 200 | |
| Nickel | 100 | |
| Zinc | 300 | * (2,000) |
| Cyanide | 100 | |

Notes:

Contaminants of concern and cleanup criteria taken from the March 1991 ROD, Section 4.4.1
* - Indicates NYSDEC criteria has changed since 1991 ROD was issued
NC - No criterion
µg/L - micrograms per liter

Monitoring well locations are shown on Figure 2. Three wells (MW-2, MW-3 and MW-4) at the Site are located immediately south of the former USTs and are considered source area wells. Four wells

(MW-5, MW-6, MW-18 and MW-19) are located sidegradient of the main contamination plume. Four wells (MW-10, MW-16, MW-12 and MW-14) are located downgradient of the former USTs. Two wells (MW-20 and MW-21) are sentinel wells.

### 4.1.1 Source Area Monitoring Wells

The three source area monitoring wells, MW-2, MW-3, andMW-4, were added to the long term monitoring program in May 2011 (Round 5).

During Round 9, cadmium concentrations exceeded the 5 µg/L criterion in both unfiltered and filtered samples from MW-3 and MW-4 at concentrations ranging from 5.8 µg/L to 24 µg/L (Figure 5). Historically, cadmium concentrations in MW-2 and MW-3 have mostly been below the criterion or not detected. At MW-4, cadmium concentrations have exceeded the criterion during all five sampling rounds (Figure 6A).

Chromium concentrations in the unfiltered sample from MW-3 exceeded the criterion; the filtered sample was not detected. Historically, chromium concentrations in both unfiltered and filtered samples from MW-3 were below the criterion exceeded the criterion. At MW-4, three of five unfiltered samples have exceeded the criterion and two of five filtered samples have exceeded the criterion.

Iron concentrations in the unfiltered sample from MW-3 exceeded the 300 µg/L criterion. Historically, there have been a few iron exceedances in the unfiltered samples.

Sodium concentrations in both unfiltered and filtered also exceeded the criterion in MW-3 and MW-4 but were below the criterion in MW-2.

### 4.1.2 Sidegradient Monitoring Wells

The four sidegradient monitoring wells include MW-5, MW-6, MW-18 and MW-19.

No COC metals were detected in any of the sidegradient monitoring wells.

Sodium concentrations exceeded the 20,000 µg/L criterion in both unfiltered and filtered samples from MW-5 and MW-18. Manganese exceeded the criterion in both unfiltered and filtered sample from MW-18 (Figure 5).

### 4.1.3 Downgradient Monitoring Wells

The four downgradient monitoring wells include MW-10, MW-16, MW-12 and MW-14.

Cadmium exceeded the 5 µg/L criterion in both unfiltered and filtered samples from MW-10 and the unfiltered sample from MW-12 (Figure 6A). Historically, cadmium concentrations have exceeded the criterion in every sample from MW-10, ranging in concentration from 11.3 µg/L to 57 µg/L. Six of nine unfiltered samples from MW-12 have exceeded the criterion while only one filtered sample has

exceeded the criterion. Five of nine unfiltered samples from MW-14 have exceeded the criterion while only one of five filtered samples has exceeded the criterion.

Chromium concentrations in both unfiltered and filtered samples from MW-10 and MW-14 exceeded the 50 µg/L criterion during Round 9 (Figure 5). Historically, chromium concentrations in these two monitoring wells have exceeded the criterion in both unfiltered and filtered samples.

Lead was detected in the unfiltered sample at MW-14 (32 µg/L) which exceed the 25 µg/L criterion. Lead was detected in the filtered sample but below the criterion.

During Round 9, sodium concentrations exceeded the criterion in MW-12 and manganese concentrations exceeded the criterion in MW-16. Thallium was detected in the unfiltered MW-12 sample at a concentration of 2.5 µg/L, which exceeded the .0.5 µg/L criterion. Thallium was not detected in the filtered sample and has not been detected at this location during the previous eight rounds of sampling.

### 4.1.4 Sentinel Monitoring Wells

The sentinel wells include MW-20 and MW-21, located approximately 670 ft southeast of the Site.

The only exceedance noted during Round 9 at the sentinel wells was iron in both unfiltered samples; iron was not detected in filtered samples. Historically, the only other exceedances noted in the sentinel wells have been sodium and a few isolated exceedances of antimony and manganese.

## 4.2 Filtered versus Unfiltered Metals Samples

Concentrations of total metals in groundwater samples at the Site trended to be highly variable between sampling events, as did field measurements of turbidity at the time of sample collection. Turbidity is typically correlated with the presence of suspended matter (e.g., entrained soil particles in the sample). Therefore, in Round 5 (May 2011), Round 6 (August 2012), Round 7 (November 2013), Round 8 (March 2015) and Round 9 (May 2016), total metals (unfiltered) and dissolved metals (field filtered) groundwater samples were collected to evaluate the effect of turbidity on the metals concentrations.

The NYSDEC turbidity criterion is 50 nephelometric turbidity units (NTU) or less for well development and groundwater sampling (TAGM 4015; NYSDEC, 1988). At the Liberty Industrial Finishing Site, the turbidity was below 50 NTU at the time of sampling in seven of 13 samples, ranging from 0.7 to 343 NTU (see the bottom row of Table 4).

Table 4 presents a comparison of the total metals and the dissolved metals data for the 13 filtered/ unfiltered sample pairs collected at the Liberty Site. The “percent dissolved” shown on the table is the ratio of the filtered sample concentration to the total (unfiltered) sample concentration.

Concentrations of metals that typically exist primarily in the dissolved phase (e.g., sodium, and calcium) are not expected to be affected by filtering. Hence the two samples (filtered and unfiltered) should essentially act as field duplicate samples for these parameters, and the concentrations in the filtered/unfiltered pairs would be expected to be very similar (e.g., the filtered/unfiltered ratio is close 100% +/- 10%). The filtered/unfiltered pairs for these two compounds were generally similar in the filtered and unfiltered samples indicating good reproducibility in the sampling/analytic process, with one exception discussed below.

Most of the other metals are expected to be generally associated with solid particles. Therefore it would be expected that the concentration in the filtered samples would range from similar to the unfiltered samples (for those wells with very low turbidity), to significantly lower for those wells with high turbidity (as long as the concentration are sufficiently higher than the detection for an accurate comparison). This is the case for all well samples. However, an important distinction in the data is that most of the "particle associated" metals (e.g., iron) were not detected in the filtered samples (i.e. are not soluble) except for cadmium, which was 50% soluble or greater in four out of six sample with detectable levels. Thus, in samples where cadmium is detected, it is also often detected in the filtered (dissolved) samples.

## 4.3 Round 9 (May 2016) Data Quality Review

In accordance with the project plans, data generated for this investigation were not subject to formal validation. However, AECOM's quality assurance officer (QAO) reviewed the data for reasonableness and the presence of any anomalies, including issues identified by the laboratory in the case narrative, and other items noted in review of shipping and handling documentation, inconsistencies with previous data, and review of the laboratory QA forms. The QAO also reviewed the field duplicate data.

Filtered and unfiltered groundwater samples were collected from 13 monitoring wells on May 9, 10, and 11, 2016, and received in good condition by the laboratory (Hampton Clarke Veritech, Fairfield, New Jersey) on May 10 and 12, 2016. Samples were analyzed for target analyte list (TAL) metals (unfiltered and filtered) as sample delivery groups (SDG) AC 91268 and AC 91321. One field equipment blank was collected (LFB) . Samples LMW-12 (unfiltered) and LMW-12F (filtered) were designated as the QC samples (spike and duplicate analysis), for the Round 9 sampling event.

Laboratory QC limits were met for initial and continuing calibrations, blanks, laboratory control sample (LCS) recovery, post-digestion spikes, matrix spikes, and laboratory duplicate precision. Serial dilutions criteria were not met for aluminum, manganese, and potassium in SDG AC 91268 batch 52408, potassium in batch 52409; and barium in SDG AC 91321.

The RPD between the QC sample and the method replicate was outside the control limits in SDG AC 91268 batch 52408 for aluminum.

All other laboratory QC criteria were met for SDGs AC 91268 and 91321.

One filtered/unfiltered site-specific field duplicate groundwater sample pair (LMW-12 and 12F/LMW-62 and 62F) was collected from the Liberty site in Round 9. In the unfiltered sample pair (LMW-12/LMW-62U), relative percent difference (RPD) ranged from 3.0 to 48.3 percent, for those metals with results in both samples above the contract required detection limit. Precision was good in the filtered duplicate pair (12F/62F) for the two metals with results above the contract required detection limit, with RPDs of 3.2 and 3.6 percent.

The filtered/unfiltered data pairs (see Table 4) were reviewed for anomalies, using the USEPA Region II metals validation criteria (USEPA HW-2, revision 13; USEPA, 2006). Based on these criteria, if the dissolved (filtered sample) result exceeds the total (unfiltered) sample by more than 20 percent, the accuracy of the quantitation is suspect and both samples should be flagged (J) as estimated. If the filtered sample result exceeds the unfiltered sample result by more than 50 percent, the data is considered unusable and both samples should be flagged as rejected (R).

# 5.0 Summary and Recommendations for Future Site Remediation Activities

## 5.1 Summary of Groundwater Sampling Data

As noted in Section 4.1, five metals (cadmium, chromium, copper, lead and zinc) were listed in the ROD as COCs. Based on a review of the data from the nine sampling events, concentrations of antimony, cadmium, chromium, copper, iron, lead, manganese, selenium, sodium, and thallium have been detected at concentrations above their Class GA criteria. Based on the May 2016 sample results, the following metals exceeded Class GA criteria in unfiltered samples: cadmium (four wells), chromium (three wells), iron (eight wells), manganese (two wells), sodium (five wells) and thallium (one well). The following metals exceeded the Class GA criteria in filtered samples: cadmium (three wells), chromium (two well), manganese (two wells), and sodium (five wells).

Iron, manganese and sodium are naturally occurring metals in groundwater on Long Island. The exceedances of these metals most likely represent background conditions and are not related to previous site activities. Thallium has only been detected twice in the previous eight sampling events and is not considered to be site related.

### 5.1.1 Shallow Monitoring Wells

Shallow monitoring well MW-5 is located west of the source area (plating waste tanks and leaching pools). There only exceedance noted in the May 2016 sampling event was sodium. Historically, there have been no exceedances of TAL metals at this location with the exception of one exceedance of antimony during nine rounds of sampling.

Three shallow monitoring wells (MW-2, MW-3, and MW-4) are located near the former plating waste tanks. During the May 2016 sampling event, dissolved concentrations of cadmium and sodium were detected above their respective cleanup criteria as shown on Figure 5. Unfiltered samples also included exceedances of chromium and iron. Historically, concentrations of cadmium have exceeded the criterion in both filtered and unfiltered samples at MW-4 while chromium exceedances have been noted at MW-4.

Two shallow wells are located downgradient of the plating waste tanks, MW-10, and MW-12. During the May 2016 sampling event, cadmium and chromium exceeded the criteria in MW-10 (both unfiltered and filtered samples). There were no filtered exceedances other than sodium in MW-12, the most downgradient shallow well at the Site; cadmium and iron exceedances were noted in the unfiltered samples. Historically, MW-10 has had exceedances of both cadmium and chromium in both unfiltered and filtered samples, while MW-12 has had a few unfiltered cadmium exceedances (Figures 6A and 8A).

Isoconcentration maps of the shallow wells were prepared for filtered cadmium results and are shown on Figures 7 (August 2012), 7A (November 2013), 7B (March 2015) and 7C (May 2016). As shown on these maps, the filtered cadmium plume extends south from the plating waste tanks into the athletic fields. In August 2012, the leading edge of the plume extended south of MW-12 (Figure 7). Subsequent sampling events indicate that the leading edge of the plume has retreated as concentrations have dropped below the criterion for the last two sampling events (Figures 7A, 7B and 7C).

Isoconcentration maps were also prepared for chromium results in shallow wells and are shown on figures 9 (May 2011), 9A (November 2013), 9B (March 2015), and 9C (May 2016). As shown on these figures, the chromium plume extends south of the plating waste tanks similar to the cadmium plume. In May 2011, the leading edge of the plume appeared to be sinking as it was present in deep well MW-14 but not in the adjacent shallow well MW-12. The chromium plume appeared larger in the November 2013 event where concentrations at MW-10 were higher than in 2011. The May 2016 contours indicate a similar sized plume as was found during the November 2013 plume where the concentration at MW-10 was similar and the concentration at downgradient location MW-14 was above the criterion.

### 5.1.2 Deep Monitoring Wells

There are three deep wells (screened approximately 100 ft below ground surface (bgs) at the Site, MW-16, MW-14 and MW-21 as shown on Figure 2. These three deep wells align with the general direction of groundwater flow leading away from the source area plating waste tanks. MW-16 is immediately downgradient of the source area, and MW-14 and MW-21 are further downgradient of the Site. There were no exceedances (other than manganese and the unfiltered iron result) noted during the May 2016 sampling event at MW-16. Historically, cadmium has been detected in all the unfiltered and filtered samples at MW-16 but at concentrations below the criterion except for the unfiltered sample from May 2011(Figure 6B). At MW-14, there has been only one filtered cadmium exceedance noted during the five sampling events where filtered samples were collected. Two of five filtered chromium samples from MW-14 have exceeded the criterion, including the May 2016 sample. There have been several exceedances of these two metals in unfiltered samples (Figures 6A and 8A). Historically, there have been exceedances of antimony, copper, iron, lead selenium and sodium in these two at this downgradient location (Table 3).

### 5.1.3 Very Deep Monitoring Wells

There are two very deep wells, MW-18 and MW-20, at the Site screened approximately 150 ft bgs. MW-18 is sidegradient to the source area and MW-20 is downgradient to the source area. There were no exceedances noted in these two wells during the May 2016 sampling event, with the exception of manganese and sodium at MW-18 (both unfiltered and filtered samples) and the unfiltered iron sample at MW-20. Historically, the only exceedances noted in these two very deep wells were antimony, iron, manganese and sodium.

### 5.1.4 Magothy Monitoring Wells

Two wells, MW-6 and MW-19, are screened in the Magothy Formation (approximately 250 ft bgs). Unfiltered iron concentrations exceeded the criterion in both wells; there were no other exceedances noted in the May 2016 samples. Historically, the only cadmium exceedance in either of these wells was in the unfiltered samples from the August 2007 sampling event. Cadmium concentrations have not exceeded the criterion since in either unfiltered or filtered samples (Figure 6A). There have been sporadic exceedances of antimony, iron and thallium in these wells (Table 3).

## 5.2 Recommendations for Future Work

Concentrations of cadmium and chromium were detected above their respective Class GA criterion in several monitoring wells during the May 2016 sampling event; all the exceedances were noted in shallow monitoring wells. AECOM recommends continued sampling to determine if the cadmium and chromium plumes are migrating downgradient of the Site.

Paired filtered/unfiltered groundwater samples for metals analysis were collected from all monitoring wells in the May 2011, August 2012, November 2013, March 2015, and May 2016 sampling events. Cadmium appears to be present in the dissolved phase with dissolved concentrations at 50% of the unfiltered samples or greater, whereas chromium and lead are not found in the filtered samples. Filtering of samples can be discontinued , since the data have demonstrated that the presence of cadmium in a unfiltered sample does indicate site related contamination of the groundwater, while the presence of other metals such as lead and chromium are only associated with soil particles and do not reliably indicate site related contamination.

The next scheduled sampling event at the Liberty Site is August 2017.

# Tables

**TABLE 1**
**LIBERTY INDUSTRIAL FINISHING SITE (1-25-108)**
**WELL CONSTRUCTION DATA**

| Well Number | Northing | Easting | Ground Elevation | Top of Riser Elevation | Top of Casing Elevation | Total Depth of Well |
|---|---|---|---|---|---|---|
| MW-1 | 202,384.57 | 2,206,633.80 | 92.92 | 91.57 | 92.92 | 42.5 |
| MW-2 | 202,371.27 | 2,206,596.31 | 92.87 | 91.27 | 92.87 | 54.2 |
| MW-3 | 202,360.99 | 2,206,568.43 | 93.08 | 91.25 | 93.08 | 53.9 |
| MW-4 | 202,344.02 | 2,206,522.24 | 93.09 | 91.61 | 93.09 | 53.4 |
| MW-5 | 202,308.86 | 2,206,350.98 | 92.19 | 93.32 | 93.60 | 50.0 |
| MW-6 | 202,306.77 | 2,206,341.15 | 92.09 | 92.71 | 92.79 | 265.0 |
| MW-10 | 202,243.14 | 2,206,590.12 | 91.84 | 90.40 | 91.84 | 50.0 |
| MW-12 | 201,973.43 | 2,206,863.98 | 91.08 | 89.59 | 89.79 | 49.3 |
| MW-14 | 201,966.33 | 2,206,866.03 | 91.12 | 89.55 | 89.77 | 100.0 |
| MW-16 | 202,243.14 | 2,206,611.76 | 91.97 | 90.48 | 91.97 | 99.2 |
| MW-18 | 202,101.70 | 2,206,373.86 | 93.14 | 91.55 | 92.03 | 150.0 |
| MW-19 | 202,102.30 | 2,206,386.65 | 93.32 | 91.98 | 92.19 | 248.0 |
| MW-20 | 201,798.92 | 2,206,946.09 | 90.27 | 88.59 | 89.08 | 149.5 |
| MW-21 | 201,798.35 | 2,206,950.31 | 90.33 | 88.66 | 89.15 | 110.5 |

All elevations and depths in feet
Field survey performed by YEC, Inc., on March 23, 2007
(monitoring wells MW-1, 2, 3, 10 and 16 were not surveyed in 2007 as these wells were not included in the sampling at that time, these coordinates are estimated)
Horizontal datum: NAD 1927 State Plan
Vertical datum: NAVD 88, for NGVD 29, add 1.13 feet

**TABLE 2**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**GROUNDWATER ELEVATIONS**

| Well # (screen interval) | Reference Elevation (ft, NGVD) | Total Depth of Well (ft) | Date | Depth To Water (ft) | Water Table Elevation (ft, NGVD) | Comments |
|---|---|---|---|---|---|---|
| MW-1 (shallow) | 91.57 | | 5/24/11 | dry | NA | No water was observed in the well |
| | | | 8/21/12 | dry | NA | No water was observed in the well |
| | | | 11/5/13 | dry | NA | No water was observed in the well |
| | | | 3/18/15 | dry | NA | No water was observed in the well |
| | | | 5/9/16 | dry | NA | No water was observed in the well |
| MW-2 (shallow) | 91.27 | 54.2 | 5/24/11 | 42.91 | 48.36 | |
| | | | 8/21/12 | 44.05 | 47.22 | |
| | | | 11/5/13 | 43.21 | 48.06 | |
| | | | 3/18/15 | 43.84 | 47.43 | |
| | | | 5/9/16 | 45.30 | 45.97 | |
| MW-3 (shallow) | 91.25 | 53.9 | 5/24/11 | 42.90 | 48.35 | |
| | | | 8/21/12 | 44.00 | 47.25 | |
| | | | 11/5/13 | 45.21 | 46.04 | |
| | | | 3/18/15 | 44.10 | 47.15 | |
| | | | 5/9/16 | 45.31 | 45.94 | |
| MW-4 (shallow) | 91.61 | 53.4 | 5/24/11 | 43.25 | 48.36 | |
| | | | 8/21/12 | 44.36 | 47.25 | |
| | | | 11/5/13 | 46.60 | 45.01 | |
| | | | 3/18/15 | 44.18 | 47.43 | |
| | | | 5/9/16 | 45.65 | 45.96 | |
| MW-5 (shallow) | 93.23 | 50.0 | 6/12/06 | 42.24 | 50.99 | |
| | | | 8/21/07 | 43.11 | 50.12 | |
| | | | 11/13/08 | 45.40 | 47.83 | |
| | | | 3/10/10 | 43.37 | 49.86 | |
| | | | 5/23/11 | 44.92 | 48.31 | |
| | | | 8/21/12 | 45.99 | 47.24 | |
| | | | 11/5/13 | 47.19 | 46.04 | |
| | | | 3/18/15 | 45.85 | 47.38 | |
| | | | 5/9/16 | 47.35 | 45.88 | |
| MW-6 (Magothy) | 92.71 | 265.0 | 6/12/06 | 42.19 | 50.52 | |
| | | | 8/21/07 | 43.15 | 49.56 | |
| | | | 11/13/08 | 45.23 | 47.48 | |
| | | | 3/10/10 | 43.12 | 49.59 | |
| | | | 5/23/11 | 44.76 | 47.95 | |
| | | | 8/21/12 | 45.70 | 47.01 | |
| | | | 11/5/13 | 45.95 | 46.76 | |
| | | | 3/18/15 | 48.30 | 44.41 | |
| | | | 5/9/16 | 47.15 | 45.56 | |

**TABLE 2**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**GROUNDWATER ELEVATIONS**

| Well # (screen interval) | Reference Elevation (ft, NGVD) | Total Depth of Well (ft) | Date | Depth To Water (ft) | Water Table Elevation (ft, NGVD) | Comments |
|---|---|---|---|---|---|---|
| MW-10 (shallow) | 90.40 | 50.0 | 5/24/11 | 42.12 | 48.28 | |
| | | | 8/21/12 | 43.18 | 47.22 | |
| | | | 11/5/13 | 43.10 | 47.30 | |
| | | | 3/18/15 | 43.30 | 47.10 | |
| | | | 5/9/16 | 44.50 | 45.90 | |
| MW-12 (shallow) | 89.59 | 49.3 | 6/14/06 | 39.09 | 50.50 | |
| | | | 8/24/07 | 39.95 | 49.64 | |
| | | | 11/13/08 | 42.25 | 47.34 | |
| | | | 12/23/08 | 41.81 | 47.78 | |
| | | | 3/10/10 | 40.07 | 49.52 | |
| | | | 5/24/11 | 41.69 | 47.90 | |
| | | | 8/21/12 | 42.75 | 46.84 | |
| | | | 11/5/13 | 43.00 | 46.59 | |
| | | | 3/18/15 | 42.52 | 47.07 | |
| | | | 5/9/16 | 43.82 | 45.77 | |
| MW-14 (deep) | 89.55 | 100.0 | 6/14/06 | 39.13 | 50.42 | |
| | | | 8/24/07 | 40.00 | 49.55 | |
| | | | 11/13/08 | 42.35 | 47.20 | |
| | | | 12/23/08 | 41.98 | 47.57 | |
| | | | 3/10/10 | 40.18 | 49.37 | |
| | | | 5/24/11 | 41.82 | 47.73 | |
| | | | 8/21/12 | 42.86 | 46.69 | |
| | | | 11/5/13 | 43.02 | 46.53 | |
| | | | 3/18/15 | 42.77 | 46.78 | |
| | | | 5/9/16 | 44.21 | 45.34 | |
| MW-16 (deep) | 90.48 | 99.2 | 5/24/11 | 42.03 | 48.45 | |
| | | | 8/21/12 | 43.41 | 47.07 | |
| | | | 11/5/13 | 44.63 | 45.85 | |
| | | | 3/18/15 | 43.21 | 47.27 | |
| | | | 5/9/16 | 44.74 | 45.74 | |
| MW-18 (very deep) | 91.55 | 150.0 | 6/22/06 | 40.76 | 50.79 | |
| | | | 8/21/07 | 41.25 | 50.30 | |
| | | | 11/13/08 | 43.80 | 47.75 | |
| | | | 3/10/10 | 41.82 | 49.73 | |
| | | | 5/24/11 | 43.41 | 48.14 | |
| | | | 8/21/12 | 44.47 | 47.08 | |
| | | | 11/5/13 | 45.69 | 45.86 | |
| | | | 3/18/15 | 44.46 | 47.09 | |
| | | | 5/9/16 | 47.50 | 44.05 | |

**TABLE 2**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**GROUNDWATER ELEVATIONS**

| Well # (screen interval) | Reference Elevation (ft, NGVD) | Total Depth of Well (ft) | Date | Depth To Water (ft) | Water Table Elevation (ft, NGVD) | Comments |
|---|---|---|---|---|---|---|
| MW-19 (Magothy) | 91.98 | 265.0 | 6/22/06 | 41.95 | 50.03 | |
| | | | 8/21/07 | 41.60 | 50.38 | |
| | | | 11/13/08 | 43.90 | 48.08 | |
| | | | 3/10/10 | 42.78 | 49.20 | |
| | | | 5/24/11 | 44.39 | 47.59 | |
| | | | 8/21/12 | 45.51 | 46.47 | |
| | | | 11/5/13 | 44.52 | 47.46 | |
| | | | 3/18/15 | 45.20 | 46.78 | |
| | | | 5/9/16 | 46.61 | 45.37 | |
| MW-20 (very deep) | 88.59 | 149.5 | 6/14/06 | 38.29 | 50.30 | |
| | | | 8/21/07 | 39.18 | 49.41 | |
| | | | 11/13/08 | 41.20 | 47.39 | |
| | | | 3/10/10 | 39.30 | 49.29 | |
| | | | 5/24/11 | 40.95 | 47.64 | |
| | | | 8/21/12 | 41.99 | 46.60 | |
| | | | 11/5/13 | 43.24 | 45.35 | |
| | | | 3/18/15 | 41.81 | 46.78 | |
| | | | 5/9/16 | 43.35 | 45.24 | |
| MW-21 (deep) | 88.66 | 110.5 | 6/14/06 | 38.30 | 50.36 | |
| | | | 8/21/07 | 39.20 | 49.46 | |
| | | | 11/13/08 | 41.47 | 47.19 | |
| | | | 3/10/10 | 39.31 | 49.35 | |
| | | | 5/24/11 | 40.94 | 47.72 | |
| | | | 8/21/12 | 41.97 | 46.69 | |
| | | | 11/5/13 | 43.20 | 45.46 | |
| | | | 3/18/15 | 41.79 | 46.87 | |
| | | | 5/9/16 | 43.30 | 45.36 | |

All measurements were taken from the top of PVC casing
Well Screen Interval

Shallow - 50 ft bgs
Deep - 100 ft bgs
Very deep - 150 ft bgs
Magothy - 250 ft bgs

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-2 | MW-2 | MW-2 | MW-2 | MW-2 | MW-2 | MW-2 | MW-2 | MW-2 | MW-2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-2 | LMW-2 | LMW-2 | LMW-2F | LMW-2 | LMW-2F | LMW-2 | LMW-2F | LMW-2 | LMW-2F |
| Laboratory ID | Ground | K0943-11 | K0943-12 | L1807-12 | L1808-12 | AC75576-029 | AC75576-030 | AC83866-001 | AC83866-002 | AC91321-008 | AC91321-009 |
| Sample Date | Water | 5/26/11 | 5/26/11 | 8/23/12 | 8/23/12 | 11/6/13 | 11/6/13 | 3/18/15 | 3/18/15 | 5/11/16 | 5/11/16 |
| Filtered/Unfiltered | Criteria | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered |
| | | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q |
| Aluminum | NC | 118 B | ND | 602 | ND | ND | ND | 1,200 | ND | ND | ND |
| Antimony | 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | 25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Barium | 1,000 | 44.6 B | 44.9 B | 39.5 B | 31.9 B | ND | ND | ND | ND | ND | ND |
| Beryllium | 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cadmium | 5 | ***8.5*** | ***5.5*** | 3.5 B | 2.7 B | ND | ND | ND | ND | ND | ND |
| Calcium | NC | 16,300 | 16,700 | 20,400 | 21,500 | 30,000 | 29,000 | 16,000 | 15,000 | 29,000 | 30,000 |
| Chromium | 50 | ***51.9*** | 48.2 | 26.7 | 12.0 B | ***62.0*** | ***59.0*** | ND | ND | ND | ND |
| Cobalt | NC | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 200 | 24 B | ND | 14.4 B | 4.2 B | ND | ND | ND | ND | ND | ND |
| Iron | 300 | 205 | ND | ***853*** | ND | ND | ND | ***1,700*** | ND | ND | ND |
| Lead | 25 | ND | ND | ND | ND | ND | ND | 10.0 | ND | ND | ND |
| Magnesium | 35,000 | 3,180 | 3,250 | 3,720 | 3,870 | ND | ND | ND | ND | ND | ND |
| Manganese | 300 | ND | ND | 17.7 B | ND | ND | ND | ND | ND | ND | ND |
| Mercury | 0.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Nickel | 100 | 5.5 B | 2.7 B | 4.6 B | 3.3 B | ND | ND | ND | ND | ND | ND |
| Potassium | NC | 2,720 | 2,610 | 1,710 E | 1,660 | ND | ND | ND | ND | ND | ND |
| Selenium | 10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Silver | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 20,000 | ***21,300*** | ***22,400*** | ***21,400*** | ***22,900*** | 15,000 | 16,000 | 9,600 | 9,700 | 14,000 | 15,000 |
| Thallium | 0.50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | NC | ND | ND | 1.4 B | ND | ND | ND | ND | ND | ND | ND |
| Zinc | 2,000 | 29.2 B | 24.8 B | 51.0 | 26.1 B | ND | ND | ND | ND | ND | ND |

Notes:
All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-3 | MW-3 | MW-3 | MW-3 | MW-3 | MW-3 | MW-3 | MW-3 | MW-3 | MW-3 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-3 | LMW-3 | LMW-3 | LMW-3F | LMW-3 | LMW-3F | LMW-3 | LMW-3 | LMW-3F | LMW-3F |
| Laboratory ID | Ground | K0943-13 | K0943-14 | L1807-13 | L1808-13 | AC75576-001 | AC75576-002 | AC83866-003 | AC83866-004 | AC91321-006 | AC91321-007 |
| Sample Date | Water | 5/26/11 | 5/26/11 | 8/23/12 | 8/23/12 | 11/4/13 | 11/4/13 | 3/18/15 | 3/18/15 | 5/11/16 | 5/11/16 |
| Filtered/Unfiltered | Criteria | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered |
| | | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q |
| Aluminum | NC | 346 | ND | 360 | ND | 470 | ND | 1,400 | ND | 330 | ND |
| Antimony | 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | 25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Barium | 1,000 | 19.1 B | 18.1 B | 28.9 B | 27.9 B | ND | ND | ND | ND | ND | ND |
| Beryllium | 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cadmium | 5 | ***6.6*** | 4.6 B | 3.0 B | 2.8 B | 4.7 | 3.5 | 4.2 | 2.4 | ***7.9*** | ***5.8*** |
| Calcium | NC | 16,900 | 16,800 | 28,600 | 29,400 | 29,000 | 27,000 | 16,000 | 16000 | 26,000 | 25,000 |
| Chromium | 50 | ***59.6*** | 32.6 | ***118*** | ***103*** | ***140*** | ***95.0*** | ***170*** | ***61.0*** | ***97.0*** | ND |
| Cobalt | NC | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 200 | 45.5 | 11.7 B | 14.2 B | 6.5 B | ND | ND | ND | ND | ND | ND |
| Iron | 300 | ***462*** | ND | ***414*** | 45.4 B | ***650*** | ND | ***1,800*** | ND | ***700*** | ND |
| Lead | 25 | 14.1 | ND | ND | ND | 8.5 | ND | 18.0 | ND | 7.2 | ND |
| Magnesium | 35,000 | 2710 | 2,760 | 5,100 | 5,180 | ND | ND | ND | ND | ND | ND |
| Manganese | 300 | 11.8 B | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Mercury | 0.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Nickel | 100 | 6.7 B | 4.3 B | 3.8 B | 3.4 B | ND | ND | ND | ND | ND | ND |
| Potassium | NC | 1,950 | 1,770 | 2,560 E | 2,480 | ND | ND | ND | ND | ND | ND |
| Selenium | 10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Silver | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 20,000 | 12,400 | 13,200 | ***30,800*** | ***31,000*** | ***38,000*** | ***35,000*** | ***24,000*** | ***26,000*** | ***26,000*** | ***25,000*** |
| Thallium | 0.50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | NC | 1.4 B | ND | 1.1 B | ND | ND | ND | ND | ND | ND | ND |
| Zinc | 2,000 | 54.9 | 40.4 B | 19.6 B | 19.3 B | ND | ND | 61.0 | ND | ND | ND |

Notes:
All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-4 | MW-4 | MW-4 | MW-4 | MW-4 | MW-4 | MW-4 | MW-4 | MW-4 | MW-4 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-4 | LMW-4 | LMW-4 | LMW-4F | LMW-4 | LMW-4F | LMW-4 | LMW-4F | LMW-4 | LMW-4F |
| Laboratory ID | Ground | K0943-15 | K0943-16 | L1807-14 | L1808-14 | AC75576-003 | AC75576-004 | AC83866-005 | AC83866-006 | AC91321-010 | AC91321-011 |
| Sample Date | Water | 5/26/11 | 5/26/11 | 8/23/12 | 8/23/12 | 11/4/13 | 11/4/13 | 3/18/15 | 3/18/15 | 5/11/16 | 5/11/16 |
| Filtered/Unfiltered | Criteria | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered |
| | | conc. | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q |
| Aluminum | NC | 2,560 | ND | 1,980 | 1,130 | 310 | ND | 2,200 | ND | ND | ND |
| Antimony | 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | 25 | 4.8 B | ND | 6.4 B | ND | ND | ND | ND | ND | 2.1 | ND |
| Barium | 1,000 | 27.1 B | 13.2 B | 22.8 B | 21.6 B | ND | ND | ND | ND | ND | ND |
| Beryllium | 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cadmium | 5 | ***54.2*** | ***19.8*** | ***28.2*** | ***27.3*** | ***26.0*** | ***21.0*** | ***20.0*** | ***11.0*** | ***24.0*** | ***23.0*** |
| Calcium | NC | 14,200 | 12,300 | 18,700 | 19,600 | 33,000 | 30,000 | 8,400 | 8,300 | 26,000 | 26,000 |
| Chromium | 50 | ***176*** | ***142*** | ***74.9*** | ***58.7*** | ND | ND | ***53.0*** | ND | ND | ND |
| Cobalt | NC | 3.3 B | 2.6 B | 0.73 B | ND | ND | ND | ND | ND | ND | ND |
| Copper | 200 | 137 | 43.5 | 69.7 | 58.9 | ND | ND | 60.0 | ND | ND | ND |
| Iron | 300 | ***2,660*** | 109 B | ***2,000*** | ***1,110*** | ***320*** | ND | ***2,200*** | ND | ND | ND |
| Lead | 25 | ***43.2*** | ND | 15.5 | 9.8 B | ND | ND | 22.0 | ND | ND | ND |
| Magnesium | 35,000 | 1,710 | 1,270 | 2,770 | 2,870 | ND | ND | ND | ND | ND | ND |
| Manganese | 300 | 47.1 B | 12.3 B | 18.4 B | 14.4 B | ND | ND | ND | ND | ND | ND |
| Mercury | 0.7 | 0.036 B | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Nickel | 100 | 43.5 B | 12.8 B | 17.5 B | 15.8 B | ND | ND | ND | ND | ND | ND |
| Potassium | NC | 6,600 | 6,790 | 2,340 E | 2,460 | ND | ND | ND | ND | ND | ND |
| Selenium | 10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Silver | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 20,000 | ***26,100*** | ***29,100*** | 13,400 | 14,400 | ***21,000*** | ***21,000*** | ND | ND | ***26,000*** | ***26,000*** |
| Thallium | 0.50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | NC | 7.0 B | 1.2 B | 4.9 B | 3.2 B | ND | ND | ND | ND | ND | ND |
| Zinc | 2,000 | 630 | 109 | 257 | 220 | 160 | 130 | 220 | 97.0 | 120 | 110 |

Notes:
All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-5 | | MW-5 | | MW-5 | | MW-5 | | MW-5 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-5 | | LMW-5 | | LMW-5 | | LMW-5 | | LMW-5 | |
| Laboratory ID | Ground | E0833-01A | | F1192-04A | | G2136-07A | | J0429-01A | | K0919-02 | |
| Sample Date | Water | 6/12/06 | | 8/23/07 | | 11/14/08 | | 3/8/10 | | 5/23/11 | |
| Filtered/Unfiltered | Criteria | Unfiltered | | Unfiltered | | Unfiltered | | Unfiltered | | Unfiltered | |
| | | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | |
| Aluminum | NC | 238 | | 157 | B | ND | | 87.5 | BE | ND | |
| Antimony | 3 | ***3.7*** | B | ND | | ND | | ND | | ND | |
| Arsenic | 25 | 2.2 | B | ND | | ND | | ND | | ND | |
| Barium | 1,000 | 49.3 | B | 50.0 | B | 45.7 | B | 49.4 | B | 9 | B |
| Beryllium | 3 | ND | | ND | | ND | | 0.089 | B | ND | |
| Cadmium | 5 | 0.13 | B | 0.51 | B | ND | | ND | | ND | |
| Calcium | NC | 19,000 | | 15,000 | | 16,900 | | 14,100 | | 6,280 | |
| Chromium | 50 | 18.2 | B | 42.2 | | 7.3 | B | 29.0 | | 1.8 | B |
| Cobalt | NC | 0.67 | B | 1.4 | B | ND | | ND | | ND | |
| Copper | 200 | 23.8 | B | 10.9 | B | ND | | ND | | ND | |
| Iron | 300 | 198 | B | 122 | B | ND | | 107 | BN | 151 | BN |
| Lead | 25 | 1.3 | B | 3.4 | B | ND | | ND | | ND | |
| Magnesium | 35,000 | 2,040 | E | 1,870 | | 2,040 | | 1,830 | | 2,370 | |
| Manganese | 300 | 15.1 | B | 13.7 | B | 6.8 | B | 16.5 | B | 10.4 | B |
| Mercury | 0.7 | ND | | ND | | ND | | 0.056 | B | ND | |
| Nickel | 100 | 3.3 | B | 1.1 | B | ND | | 1.2 | B | 2.5 | B |
| Potassium | NC | 4,330 | | 4,500 | | 4,380 | | 4,740 | | 627 | B |
| Selenium | 10 | ND | | 7.4 | B | ND | | ND | | ND | |
| Silver | 50 | ND | | 4.0 | B | ND | | ND | | ND | |
| Sodium | 20,000 | 4,460 | | 7,800 | | 7,570 | | 6,570 | | 8,000 | |
| Thallium | 0.50 | ND | | ND | | ND | | ND | | ND | |
| Vanadium | NC | ND | | 0.59 | B | ND | | ND | | ND | |
| Zinc | 2,000 | 29.1 | B | 18.4 | B | 13.7 | B | 15.2 | B | 27.9 | B |

| Sample Location | NYSDEC | MW-5 | | |
|---|---|---|---|---|
| Sample ID | Class GA | LMW-5 | | |
| Laboratory ID | Ground | K0919-01 | | |
| Sample Date | Water | 5/23/11 | | |
| Filtered/Unfiltered | Criteria | Filtered | | |
| | | conc. | Q | |
| Aluminum | NC | ND | | |
| Antimony | 3 | ND | | |
| Arsenic | 25 | ND | | |
| Barium | 1,000 | 8.3 | B | |
| Beryllium | 3 | ND | | |
| Cadmium | 5 | ND | | |
| Calcium | NC | 5400 | | |
| Chromium | 50 | 0.88 | B | |
| Cobalt | NC | ND | | |
| Copper | 200 | ND | | |
| Iron | 300 | 54.3 | BN | |
| Lead | 25 | ND | | |
| Magnesium | 35,000 | 2,140 | | |
| Manganese | 300 | ND | | |
| Mercury | 0.7 | ND | | |
| Nickel | 100 | 1.3 | B | |
| Potassium | NC | 613 | B | |
| Selenium | 10 | ND | | |
| Silver | 50 | ND | | |
| Sodium | 20,000 | 7,420 | | |
| Thallium | 0.50 | ND | | |
| Vanadium | NC | ND | | |
| Zinc | 2,000 | 24.5 | B | |

Notes:

All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-5 | | MW-5 | | MW-5 | | MW-5 | | MW-5 | | MW-5 | | MW-5 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-5 | | LMW-5F | | LMW-5 | | LMW-5F | | LMW-5 | | LMW-5F | | LMW-5 | | LMW-5F | |
| Laboratory ID | Ground | L1807-01 | | L1808-01 | | AC75576-009 | | AC75576-010 | | AC83866-007 | | AC83866-008 | | AC91268-015 | | AC91268-016 | |
| Sample Date | Water | 8/20/12 | | 8/20/12 | | 11/5/13 | | 11/5/13 | | 3/19/15 | | 3/19/15 | | 5/10/16 | | 5/10/16 | |
| Filtered/Unfiltered | Criteria | Unfiltered | | Filtered | | Unfiltered | | Filtered | | Unfiltered | | Filtered | | Unfiltered | | Filtered | |
| | | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | Q |
| Aluminum | NC | 245 | | 157 | B | ND | | ND | | 500 | | ND | | 210 | | ND | |
| Antimony | 3 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Arsenic | 25 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Barium | 1,000 | 56.9 | B | 60.4 | B | ND | | ND | | ND | | ND | | 61.0 | | 68.0 | |
| Beryllium | 3 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Cadmium | 5 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Calcium | NC | 17,800 | | 18,600 | | 16,000 | | 18,000 | | 16,000 | | 17,000 | | 18,000 | | 20,000 | |
| Chromium | 50 | 1.7 | B | 1.5 | B | ND | | ND | | ND | | ND | | ND | | ND | |
| Cobalt | NC | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Copper | 200 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Iron | 300 | 52.4 | B | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Lead | 25 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Magnesium | 35,000 | 3,210 | | 3,390 | | ND | | ND | | ND | | ND | | ND | | ND | |
| Manganese | 300 | 68.2 | | 67.4 | | ND | | ND | | ND | | ND | | ND | | ND | |
| Mercury | 0.7 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Nickel | 100 | 2.3 | B | 2.9 | B | ND | | ND | | ND | | ND | | ND | | ND | |
| Potassium | NC | 5,410 | E | 5,440 | | ND | | ND | | ND | | ND | | ND | | ND | |
| Selenium | 10 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Silver | 50 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Sodium | 20,000 | 18,100 | | 19,000 | | 9,100 | | 11,000 | | 14,000 | | 14,000 | | ***21,000*** | | ***23,000*** | |
| Thallium | 0.50 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Vanadium | NC | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Zinc | 2,000 | 10.5 | B | 10.3 | B | ND | | ND | | ND | | ND | | ND | | ND | |

Notes:
All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-6 | | MW-6 | | MW-6 | | MW-6 | | MW-6 | | MW-6 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-6 | | LMW-6 | | LMW-6 | | LMW-6 | | LMW-6 | | LMW-6 | |
| Laboratory ID | Ground | E0833-02A | | F1192-09A | | G2136-06A | | J0429-03A | | K0919-04 | | K0919-03 | |
| Sample Date | Water | 6/12/06 | | 8/24/07 | | 11/14/08 | | 3/8/10 | | 5/23/11 | | 5/23/11 | |
| Filtered/Unfiltered | Criteria | Unfiltered | | Unfiltered | | Unfiltered | | Unfiltered | | Unfiltered | | Filtered | |
| | | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | | conc. | Q |
| Aluminum | NC | ND | | 398 | | ND | | 50.2 | BE | ND | | ND | |
| Antimony | 3 | ***3.1*** | B | ***8.0*** | ***B*** | ND | | ND | | ND | | ND | |
| Arsenic | 25 | ND | | ND | | ND | | ND | | ND | | ND | |
| Barium | 1,000 | 24.9 | B | 29.6 | B | 15.7 | B | 11.3 | B | 34.4 | B | 33.9 | B |
| Beryllium | 3 | ND | | ND | | ND | | 0.062 | B | ND | | ND | |
| Cadmium | 5 | ND | | ***12.6*** | | 0.55 | B | 0.62 | B | ND | | ND | |
| Calcium | NC | 9,880 | | 10,000 | | 8,300 | | 6,120 | | 19,500 | | 20,000 | |
| Chromium | 50 | 0.79 | B | 28.7 | | ND | | 1.9 | B | 15.7 | B | 14.7 | B |
| Cobalt | NC | 0.31 | B | 2.2 | B | ND | | ND | | ND | | ND | |
| Copper | 200 | 15.6 | B | 31.3 | | ND | | 5.6 | B | ND | | ND | |
| Iron | 300 | 45.2 | B | ***3,120*** | | 147 | B | 137 | BN | ND | | ND | |
| Lead | 25 | ND | | 15.8 | | ND | | ND | | ND | | ND | |
| Magnesium | 35,000 | 2,980 | E | 2,630 | | 2,590 | | 1,970 | | 2,190 | | 2,240 | |
| Manganese | 300 | 5.9 | B | 60.9 | | 40.8 | B | 11.4 | B | ND | | ND | |
| Mercury | 0.7 | ND | | ND | | ND | | ND | | ND | | ND | |
| Nickel | 100 | 3.6 | B | 12.3 | B | 2.2 | B | 1.9 | B | ND | | ND | |
| Potassium | NC | 759 | B | 1,390 | | 2,060 | | 1,180 | | 3,500 | | 3,530 | |
| Selenium | 10 | 1.6 | B | ND | | ND | | ND | | ND | | ND | |
| Silver | 50 | ND | | ND | | ND | | ND | | ND | | ND | |
| Sodium | 20,000 | 10,100 | | 9,950 | | 11,600 | | 7,660 | | 7,760 | | 7,890 | |
| Thallium | 0.50 | ND | | ND | | ND | | ND | | ND | | ND | |
| Vanadium | NC | ND | | 2.0 | B | ND | | ND | | ND | | ND | |
| Zinc | 2,000 | 24.8 | B | 118 | | 21.9 | B | 25.4 | B | 16.6 | B | 18.8 | B |

Notes:
All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-6 | MW-6 | MW-6 | MW-6 | MW-6 | MW-6 | MW-6 | MW-6 |
|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-6 | LMW-6F | LMW-6 | LMW-6F | LMW-6 | LMW-6F | LMW-6 | LMW-6F |
| Laboratory ID | Ground | L1807-03 | L1808-03 | AC75576-011 | AC75576-012 | AC83866-009 | AC83866-010 | AC91268-017 | AC91268-018 |
| Sample Date | Water | 8/20/12 | 8/20/12 | 11/5/13 | 11/5/13 | 3/19/15 | 3/19/15 | 5/10/16 | 5/10/16 |
| Filtered/Unfiltered | Criteria | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered |
| | | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q |
| Aluminum | NC | 488 | ND | ND | ND | ND | ND | 800 | ND |
| Antimony | 3 | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | 25 | ND | ND | ND | ND | ND | ND | ND | ND |
| Barium | 1,000 | 14.4 B | 2.7 B | ND | ND | ND | ND | ND | ND |
| Beryllium | 3 | ND | ND | ND | ND | ND | ND | ND | ND |
| Cadmium | 5 | ND | ND | ND | ND | ND | ND | ND | ND |
| Calcium | NC | 7,700 | 7,750 | 5,800 | 6,100 | 8,300 | 7,900 | 8,800 | 7,900 |
| Chromium | 50 | 2.1 B | ND | ND | ND | ND | ND | ND | ND |
| Cobalt | NC | 0.86 B | ND | ND | ND | ND | ND | ND | ND |
| Copper | 200 | 4.0 B | ND | ND | ND | ND | ND | ND | ND |
| Iron | 300 | ***338*** | 39.8 B | ND | ND | ND | ND | ***990*** | ND |
| Lead | 25 | ND | ND | ND | ND | ND | ND | 3.1 | ND |
| Magnesium | 35,000 | 3,180 | 3,180 | ND | ND | ND | ND | ND | ND |
| Manganese | 300 | 21.8 B | ND | ND | ND | ND | ND | ND | ND |
| Mercury | 0.7 | ND | ND | ND | ND | ND | ND | ND | ND |
| Nickel | 100 | 2.4 B | 2.0 B | ND | ND | ND | ND | ND | ND |
| Potassium | NC | 753 B | 552 B | ND | ND | ND | ND | ND | ND |
| Selenium | 10 | ND | ND | ND | ND | ND | ND | ND | ND |
| Silver | 50 | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 20,000 | 10,000 | 10,300 | 7,600 | 7,700 | 8,600 | 8,400 | 8,700 | 8,800 |
| Thallium | 0.50 | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | NC | ND | ND | ND | ND | ND | ND | ND | ND |
| Zinc | 2,000 | 12.4 B | 7.9 B | ND | ND | ND | ND | ND | ND |

Notes:
All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-18 | | MW-18 | | MW-18 | | MW-18 | | MW-18 | | MW-18 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-18 | | LMW-18 | | LMW-18 | | LMW-18 | | LMW-18 | | LMW-18 | |
| Laboratory ID | Ground | E0868-14A | | F1192-08A | | G2136-02A | | J0429-06A | | K0919-10 | | K0919-09 | |
| Sample Date | Water | 6/22/06 | | 8/24/07 | | 11/13/08 | | 3/10/10 | | 5/24/11 | | 5/24/11 | |
| Filtered/Unfiltered | Criteria | Unfiltered | | Unfiltered | | Unfiltered | | Unfiltered | | Unfiltered | | Filtered | |
| | | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | | conc. | Q |
| Aluminum | NC | 135 | B | 252 | | 196 | B | 716 | E | 193 | B | ND | |
| Antimony | 3 | ND | | ND | | ***9.0*** | B | ***5.2*** | B | ND | | ND | |
| Arsenic | 25 | ND | | ND | | ND | | ND | | ND | | ND | |
| Barium | 1,000 | 74.8 | B | 92.5 | B | 86.4 | B | 103 | B | 101 | B | 104 | B |
| Beryllium | 3 | ND | | ND | | ND | | 0.12 | B | ND | | ND | |
| Cadmium | 5 | 0.33 | B | 1.3 | B | 0.92 | B | 0.86 | B | 3.0 | B | 2.9 | B |
| Calcium | NC | 12,800 | | 15,500 | | 13,500 | | 18,900 | | 21,100 | | 21,900 | |
| Chromium | 50 | 3.3 | B | 2.1 | B | 5.4 | B | 6.5 | B | 3.1 | B | 2.3 | B |
| Cobalt | NC | 0.48 | B | 1.3 | B | ND | | 1.0 | B | ND | | ND | |
| Copper | 200 | ND | | 8.1 | B | 11.0 | B | 9.8 | B | 6.9 | B | ND | |
| Iron | 300 | 212 | | ***308*** | | ***307*** | | ***731*** | N | ***327*** | N | ND | |
| Lead | 25 | ND | | 3.0 | B | 2.5 | B | 3.9 | B | ND | | ND | |
| Magnesium | 35,000 | 5,440 | | 5,430 | | 4,960 | | 4,460 | | 4,380 | | 4,560 | |
| Manganese | 300 | 169 | | ***547*** | | 122 | | ***312*** | | ***521*** | | ***421*** | |
| Mercury | 0.7 | ND | | ND | | ND | | 0.057 | B | ND | | ND | |
| Nickel | 100 | 1.4 | B | 3.1 | B | 3.2 | B | 6.5 | B | 3.4 | B | 2.4 | B |
| Potassium | NC | 10,800 | | 7,290 | | 10,200 | | 13,500 | | 11,500 | | 12,500 | |
| Selenium | 10 | ND | | ND | | ND | | ND | | ND | | ND | |
| Silver | 50 | ND | | 4.0 | B | 1.6 | B | ND | | ND | | ND | |
| Sodium | 20,000 | ***30,000*** | | ***26,700*** | | ***29,600*** | | ***30,000*** | | ***28,400*** | | ***30,200*** | |
| Thallium | 0.50 | ND | | ND | | ND | | ND | | ND | | ND | |
| Vanadium | NC | ND | | 0.66 | B | ND | | 0.63 | B | ND | | ND | |
| Zinc | 2,000 | 25.0 | B | 34.8 | B | 86.7 | | 57.8 | | 37.2 | B | 33.8 | B |

Notes:

All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-18 | | MW-18 | | MW-18 | | MW-18 | | MW-18 | | MW-18 | | MW-18 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-18 | | LMW-18F | | LMW-18 | | LMW-18F | | LMW-18 | | LMW-18F | | LMW-18 | | LMW-18F | |
| Laboratory ID | Ground | L1807-04 | | L1808-04 | | AC75576-013 | | AC75576-014 | | AC83866-019 | | AC83866-020 | | AC91268-019 | | AC91268-020 | |
| Sample Date | Water | 8/21/12 | | 8/21/12 | | 11/5/13 | | 11/5/13 | | 3/19/15 | | 3/19/15 | | 5/10/16 | | 5/10/16 | |
| Filtered/Unfiltered | Criteria | Unfiltered | | Filtered | | Unfiltered | | Filtered | | Unfiltered | | Filtered | | Unfiltered | | Filtered | |
| | | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | Q |
| Aluminum | NC | ND | | 164 | B | ND | | ND | | ND | | ND | | ND | | ND | |
| Antimony | 3 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Arsenic | 25 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Barium | 1,000 | 61.3 | B | 64.8 | B | 62.0 | | 61.0 | | ND | | ND | | 86.0 | | 76.0 | |
| Beryllium | 3 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Cadmium | 5 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Calcium | NC | 15,800 | | 15,700 | | 19,000 | | 20,000 | | 18,000 | | 16,000 | | 22,000 | | 21,000 | |
| Chromium | 50 | 1.9 | B | 3.1 | B | ND | | ND | | ND | | ND | | ND | | ND | |
| Cobalt | NC | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Copper | 200 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Iron | 300 | ND | | 277 | | ND | | ND | | ND | | ND | | ND | | ND | |
| Lead | 25 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Magnesium | 35,000 | 3,720 | | 3,650 | | ND | | ND | | ND | | ND | | 5,400 | | 5,200 | |
| Manganese | 300 | 39.1 | B | ***539*** | | ***1,200*** | | ND | | ***950*** | | ND | | ***1,000*** | | ***750*** | |
| Mercury | 0.7 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Nickel | 100 | ND | | 1.5 | B | ND | | ND | | ND | | ND | | ND | | ND | |
| Potassium | NC | 9,220 | E | 8,720 | | 8,200 | | 7,800 | | ND | | ND | | ND | | ND | |
| Selenium | 10 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Silver | 50 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Sodium | 20,000 | ***26,600*** | | ***26,000*** | | ***25,000*** | | ***26,000*** | | 19,000 | | 18,000 | | ***25,000*** | | ***24,000*** | |
| Thallium | 0.50 | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Vanadium | NC | ND | | ND | | ND | | ND | | ND | | ND | | ND | | ND | |
| Zinc | 2,000 | 16.0 | B | 8.0 | B | ND | | ND | | ND | | ND | | ND | | ND | |

Notes:

All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-19 | | MW-19 | | MW-19 | | MW-19 | | MW-19 | | MW-19 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-19 | | LMW-19 | | LMW-19 | | LMW-19 | | LMW-19 | | LMW-19 | |
| Laboratory ID | Ground | E0868-15A | | F1192-07A | | G2136-01A | | J0429-07A | | K0919-12 | | K0919-11 | |
| Sample Date | Water | 6/22/06 | | 8/24/07 | | 11/13/08 | | 3/10/10 | | 5/24/11 | | 5/24/11 | |
| Filtered/Unfiltered | Criteria | Unfiltered | | Unfiltered | | Unfiltered | | Unfiltered | | Unfiltered | | Filtered | |
| | | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | | conc. | Q |
| Aluminum | NC | 53.4 | B | 74.9 | B | ND | | 69.9 | BE | ND | | ND | |
| Antimony | 3 | ND | | ***6.7*** | ***B*** | ND | | ND | | ND | | ND | |
| Arsenic | 25 | ND | | ND | | ND | | ND | | ND | | ND | |
| Barium | 1,000 | 14.2 | B | 21.5 | B | 20.0 | B | 18.7 | B | 13.0 | B | 12.6 | B |
| Beryllium | 3 | ND | | ND | | ND | | 0.046 | B | ND | | ND | |
| Cadmium | 5 | 1.1 | B | ***8.0*** | | ND | | 2.7 | B | ND | | 2.4 | B |
| Calcium | NC | 9,900 | | 13,000 | | 9,700 | | 11,500 | | 11,600 | | 11,700 | |
| Chromium | 50 | 1 | B | 2.0 | B | ND | | 1.8 | B | 0.94 | B | ND | |
| Cobalt | NC | ND | | 1.2 | B | ND | | ND | | ND | | ND | |
| Copper | 200 | ND | | 11.7 | B | ND | | ND | | ND | | ND | |
| Iron | 300 | 54.2 | B | 221 | | ND | | 234 | N | 40.1 | BN | ND | |
| Lead | 25 | ND | | 4.1 | B | ND | | ND | | ND | | ND | |
| Magnesium | 35,000 | 3,180 | | 4,600 | | 3,970 | | 4,350 | | 4,460 | | 4,480 | |
| Manganese | 300 | 3.5 | B | 9.3 | B | 14.9 | B | 8.0 | B | ND | | ND | |
| Mercury | 0.7 | ND | | ND | | ND | | ND | | ND | | ND | |
| Nickel | 100 | ND | | 2.9 | B | ND | | 0.96 | B | ND | | ND | |
| Potassium | NC | 816 | B | 949 | B | 947 | B | 1,070 | | 993 | B | 1,120 | |
| Selenium | 10 | ND | | ND | | ND | | ND | | ND | | ND | |
| Silver | 50 | ND | | 3.3 | B | 1.1 | B | ND | | ND | | ND | |
| Sodium | 20,000 | 10,200 | | 14,400 | | 13,400 | | 14,900 | | 14,600 | | 14,600 | |
| Thallium | 0.50 | ND | | ***2.9*** | ***B*** | ND | | ND | | ND | | ND | |
| Vanadium | NC | ND | | ND | | ND | | ND | | ND | | ND | |
| Zinc | 2,000 | 42.8 | B | 48.1 | B | 30.5 | B | 47.0 | B | 28.0 | B | 28.2 | B |

Notes:
All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 |
|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-19 | LMW-19F | LMW-19 | LMW-19F | LMW-19 | LMW-19F | LMW-19 | LMW-19F |
| Laboratory ID | Ground | L1807-05 | L1808-05 | AC75576-015 | AC75576-016 | AC83866-011 | AC83866-014 | AC91268-021 | AC91268-022 |
| Sample Date | Water | 8/21/12 | 8/21/12 | 11/5/13 | 11/5/13 | 3/19/15 | 3/19/15 | 5/10/16 | 5/10/16 |
| Filtered/Unfiltered | Criteria | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered |
| | | conc. Q | conc. Q | conc. | conc. Q | conc. | conc. Q | conc. | conc. Q |
| Aluminum | NC | ND | ND | ND | ND | ND | ND | 460 | ND |
| Antimony | 3 | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | 25 | ND | ND | ND | ND | ND | ND | ND | ND |
| Barium | 1,000 | 11.5 B | 9.5 B | ND | ND | ND | ND | ND | ND |
| Beryllium | 3 | ND | ND | ND | ND | ND | ND | ND | ND |
| Cadmium | 5 | ND | ND | ND | ND | ND | ND | ND | ND |
| Calcium | NC | 10,600 | 10,100 | 11,000 | 11,000 | 15,000 | 13,000 | 16,000 | 14,000 |
| Chromium | 50 | 0.81 B | ND | ND | ND | ND | ND | ND | ND |
| Cobalt | NC | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 200 | ND | ND | ND | ND | ND | ND | ND | ND |
| Iron | 300 | 32.8 B | ND | ND | ND | ND | ND | ***730*** | ND |
| Lead | 25 | ND | ND | ND | ND | ND | ND | ND | ND |
| Magnesium | 35,000 | 4,130 | 3,920 | ND | ND | 5,100 | ND | 6,000 | ND |
| Manganese | 300 | ND | ND | ND | ND | ND | ND | ND | ND |
| Mercury | 0.7 | ND | ND | ND | ND | ND | ND | ND | ND |
| Nickel | 100 | ND | ND | ND | ND | ND | ND | ND | ND |
| Potassium | NC | 890 B | 867 B | ND | ND | ND | ND | ND | ND |
| Selenium | 10 | ND | ND | ND | ND | ND | ND | ND | ND |
| Silver | 50 | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 20,000 | 14,500 | 13,700 | 14,000 | 14,000 | 17,000 | 16,000 | 19,000 | 16,000 |
| Thallium | 0.50 | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | NC | ND | ND | ND | ND | ND | ND | ND | ND |
| Zinc | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND |

Notes:
All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 | MW-10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-10 | LMW-10 | LMW-10 | LMW-10F | LMW-10 | LMW-10F | LMW-10 | LMW-10F | LMW-10 | LMW-10F |
| Laboratory ID | Ground | K0943-03 | K0943-04 | L1807-10 | L1808-10 | AC75576-005 | AC75576-006 | AC83866-021 | AC83866-022 | AC91268-013 | AC91268-014 |
| Sample Date | Water | 5/26/11 | 5/26/11 | 8/23/12 | 8/23/12 | 11/4/13 | 11/4/13 | 3/19/15 | 3/19/15 | 5/9/16 | 5/9/16 |
| Filtered/Unfiltered | Criteria | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered |
| | | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q |
| Aluminum | NC | 101 B | ND | 159 B | ND | 210 | ND | ND | ND | ND | ND |
| Antimony | 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | 25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Barium | 1,000 | 35.0 B | 32.5 B | 28.7 B | 28.1 B | ND | ND | ND | ND | ND | ND |
| Beryllium | 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cadmium | 5 | ***10.3*** | ***11.3*** | ***36.1*** | ***34.9*** | ***49.0*** | ***50.0*** | ***42.0*** | ***33.0*** | ***53.0*** | ***57.0*** |
| Calcium | NC | 18,700 | 18,700 | 25,900 | 26,000 | 28,000 | 28,000 | 22,000 | 20,000 | 22,000 | 22,000 |
| Chromium | 50 | ***72.7*** | ***89.3*** | ***152*** | ***155*** | ***140*** | ***140*** | ***92.0*** | ***83.0*** | ***130*** | ***130*** |
| Cobalt | NC | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iron | 300 | 245 | ND | ***391*** | ND | ***420*** | ND | ***410*** | ND | ND | ND |
| Lead | 25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Magnesium | 35,000 | 3,700 | 3,590 | 3,640 | 3,650 | ND | ND | ND | ND | ND | ND |
| Manganese | 300 | 16.8 B | ND | 18.9 B | ND | ND | ND | ND | ND | ND | ND |
| Mercury | 0.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Nickel | 100 | 1.6 B | 0.91 B | 3.5 B | 3.5 B | ND | ND | ND | ND | ND | ND |
| Potassium | NC | 2,380 | 2,530 | 4,810 E | 4,770 | ND | ND | ND | ND | ND | ND |
| Selenium | 10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Silver | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 20,000 | 17,100 | 19,300 | 14,800 | 14,900 | 9,200 | 9,300 | 12,000 | 13,000 | 18,000 | 18,000 |
| Thallium | 0.50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | NC | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Zinc | 2,000 | 27.1 B | 21.7 B | ND | ND | ND | ND | ND | ND | ND | ND |

Notes:
All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-16 | MW-16 | MW-16 | MW-16 | MW-16 | MW-16 | MW-16 | MW-16 | MW-16 | MW-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-16 | LMW-16 | LMW-16 | LMW-16F | LMW-16 | LMW-16F | LMW-16 | LMW-16F | LMW-16 | LMW-16F |
| Laboratory ID | Ground | K0943-09 | K0943-10 | L1807-11 | L1808-11 | AC75576-007 | AC75576-008 | AC83866-023 | AC83866-024 | AC91268-011 | AC91268-012 |
| Sample Date | Water | 5/26/11 | 5/26/11 | 8/23/12 | 8/23/12 | 11/4/13 | 11/4/13 | 3/19/15 | 3/19/15 | 5/9/16 | 5/9/16 |
| Filtered/Unfiltered | Criteria | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered |
| | | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q |
| Aluminum | NC | 1,150 | 586 | 340 | 322 | 1,400 | 440 | ND | ND | 1,200 | 370 |
| Antimony | 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | 25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Barium | 1,000 | 299 | 351 | 339 | 339 | 230 | 240 | 180 | 160 | 180 | 160 |
| Beryllium | 3 | 2.0 B | 1.8 B | 0.7 B | 0.72 B | 1.5 | 1.2 | ND | ND | ND | ND |
| Cadmium | 5 | ***5.3*** | 4.9 B | 4.2 B | 4.3 B | 4.4 | 3.9 | 3.9 | 3.4 | 4.2 | 4.1 |
| Calcium | NC | 9,240 | 9,890 | 12,100 | 11,700 | 9,800 | 10,000 | 14,000 | 12,000 | 11,000 | 10,000 |
| Chromium | 50 | 11.7 B | 8.9 B | 2.8 B | 2.3 B | ND | ND | ND | ND | ND | ND |
| Cobalt | NC | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 200 | 9.4 B | 11.3 B | 66.6 | 63.0 | ND | ND | ND | ND | ND | ND |
| Iron | 300 | 115 B | ND | 49.9 B | ND | ***1,800*** | ND | ND | ND | ***1,600*** | ND |
| Lead | 25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Magnesium | 35,000 | 2,350 | 2,570 | 3,740 | 3,680 | ND | ND | ND | ND | ND | ND |
| Manganese | 300 | ***597*** | ***623*** | ***661*** | ***632*** | ***570*** | ***530*** | ***380*** | ***350*** | ***700*** | ***580*** |
| Mercury | 0.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Nickel | 100 | 13.9 B | 14.1 B | 11.8 B | 12.0 B | ND | ND | ND | ND | ND | ND |
| Potassium | NC | 4,930 | 4,880 | 6,010 E | 5,860 | 5,100 | ND | ND | ND | ND | ND |
| Selenium | 10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Silver | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 20,000 | 14,700 | 14,500 | 13,900 | 13,500 | 11,000 | 11,000 | 10,000 | 10,000 | 11,000 | 11,000 |
| Thallium | 0.50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | NC | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Zinc | 2,000 | 67.5 | 69 | 34.2 B | 33.2 B | ND | ND | ND | ND | ND | ND |

Notes:
All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-12 | MW-12 | MW-12 | MW-12 | MW-12 | MW-12 |
|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-12 | LMW-12 | LMW-12 | LMW-12 | LMW-12 | LMW-12 |
| Laboratory ID | Ground | E0833-03A | F1192-05A | G2415-01 | J0429-04A | K0919-06 | K0919-05 |
| Sample Date | Water | 6/14/06 | 8/24/07 | 12/23/08 | 3/9/10 | 5/24/11 | 5/24/11 |
| Filtered/Unfiltered | Criteria | Unfiltered | Unfiltered | Unfiltered | Unfiltered | Unfiltered | Filtered |
| | | conc. Q | conc. Q | conc. Q | conc. Q | conc. | conc. Q |
| Aluminum | NC | 445 | 9,070 | 2,260 | 33,600 E | 12,000 | ND |
| Antimony | 3 | 1.8 B | **11.2** B | ND | ***13.9 B*** | ND | ND |
| Arsenic | 25 | ND | 3.3 B | ND | 14.2 B | 5.1 B | ND |
| Barium | 1,000 | 45.2 B | 75.4 B | 60.5 B | 188 B | 88.9 B | 28.1 B |
| Beryllium | 3 | 0.38 B | 0.24 B | 0.19 B | 2.1 B | 0.79 B | ND |
| Cadmium | 5 | 0.52 B | **5.6** | ***25.5*** | ***205*** | ***54.8*** | 4.5 B |
| Calcium | NC | 13,100 | 26,900 | 19,700 | 29,900 | 23,300 | 18,700 |
| Chromium | 50 | 2.5 B | 37.5 | 18.9 B | ***251*** | ***72.8*** | ND |
| Cobalt | NC | 0.63 B | 5.5 B | 2.6 B | 12.8 B | 4.1 B | ND |
| Copper | 200 | 14.9 B | 85.3 | 63.5 | ***377*** | 147 | ND |
| Iron | 300 | ***467*** | **10,900** | ***4,080*** | ***38,100*** N | ***11,300*** N | ***1,620*** N |
| Lead | 25 | 7.7 B | **106** | ***83.7*** | ***553*** | ***230*** | ND |
| Magnesium | 35,000 | 3,710 E | 6,830 | 4,330 | 10,900 | 5,760 | 3,310 |
| Manganese | 300 | 77.3 | 96.9 | 82.7 | 253 | 77.6 | 37.3 B |
| Mercury | 0.7 | ND | ND | ND | 0.54 | ND | ND |
| Nickel | 100 | 3.4 B | 12.4 B | 14.9 B | 57.1 | 18.5 B | 1.9 B |
| Potassium | NC | 2,280 | 2,700 | 2,540 | 3,810 | 3,670 | 2,870 |
| Selenium | 10 | 2.6 B | ND | ND | ***13.4 B*** | ND | ND |
| Silver | 50 | ND | ND | 7.6 B | ND | ND | ND |
| Sodium | 20,000 | 11,700 | 13,400 | ***27,100*** | ***33,600*** | 8,250 | 7,660 |
| Thallium | 0.50 | ND | ND | ND | ND | ND | ND |
| Vanadium | NC | 0.77 B | 28.8 B | 8.6 B | 89.7 | 33 B | 1.5 B |
| Zinc | 2,000 | 26.1 B | 246 | 220 | 1,280 | 488 | 52.1 |

Notes:
All values in µg/L
NC - No NYSDEC criterion
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B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-12 | MW-12 | MW-12 | MW-12 | MW-12 | MW-12 | MW-12 | MW-12 |
|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-12 | LMW-12F | LMW-12 | LMW-12F | LMW-12 | LMW-12F | LMW-12 | LMW-12F |
| Laboratory ID | Ground | L1807-06 | L1808-06 | AC75576-023 | AC75576-024 | AC83866-025 | AC83866-030 | AC91268-001 | AC91268-004 |
| Sample Date | Water | 8/21/12 | 8/21/12 | 11/5/13 | 11/5/13 | 3/20/15 | 3/20/15 | 5/9/16 | 5/9/16 |
| Filtered/Unfiltered | Criteria | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered |
| | | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q |
| Aluminum | NC | 1,560 | ND | 810 | ND | 870 | ND | 950 | ND |
| Antimony | 3 | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | 25 | ND | ND | ND | ND | ND | ND | 3.2 | 2.0 |
| Barium | 1,000 | 44.6 B | 48.2 B | ND | 51.0 | 68.0 | 58.0 | ND | ND |
| Beryllium | 3 | ND | ND | ND | ND | ND | ND | 2.0 | ND |
| Cadmium | 5 | 4.4 B | ***9.3*** | 2.9 | ND | ***7.7*** | 4.4 | ***5.4*** | ND |
| Calcium | NC | 10,900 | 28,900 | 40,000 | 44,000 | 32,000 | 29,000 | 27,000 | 28,000 |
| Chromium | 50 | ***103*** | ND | ND | ND | ND | ND | ND | ND |
| Cobalt | NC | ND | ND | ND | ND | ND | ND | 3.0 | ND |
| Copper | 200 | 10.6 B | ND | ND | ND | ND | ND | ND | ND |
| Iron | 300 | ***1,740*** | 39.0 B | ***740*** | ND | ***900*** | ND | ***980*** | ND |
| Lead | 25 | 19.4 | ND | 9.9 | ND | 6.8 | ND | 11.0 | ND |
| Magnesium | 35,000 | 2,540 | 5,600 | 6,400 | 7,200 | 7,600 | 6,700 | ND | ND |
| Manganese | 300 | 211 | ND | ND | ND | ND | ND | ND | ND |
| Mercury | 0.7 | ND | ND | ND | ND | ND | ND | ND | ND |
| Nickel | 100 | 6.4 B | 2.0 B | ND | ND | ND | ND | ND | ND |
| Potassium | NC | 4,350 E | 2,970 | ND | ND | ND | ND | ND | ND |
| Selenium | 10 | ND | ND | ND | ND | ND | ND | ND | ND |
| Silver | 50 | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 20,000 | 15,400 | 16,200 | 12,000 | 14,000 | ***37,000*** | ***37,000*** | ***30,000*** | ***32,000*** |
| Thallium | 0.50 | ND | ND | ND | ND | ND | ND | ***2.5*** | ND |
| Vanadium | NC | 3.9 B | ND | ND | ND | ND | ND | ND | ND |
| Zinc | 2,000 | 32.5 B | 55.9 | ND | ND | 78.0 | ND | 65.0 | ND |

Notes:
All values in µg/L
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E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-14 | | MW-14 | | MW-14 | | MW-14 | | MW-14 | | MW-14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-14 | | LMW-14 | | LMW-14 | | LMW-14 | | LMW-14 | | LMW-14 | |
| Laboratory ID | Ground | E0833-04A | | F1192-06A | | G2415-02 | | J0429-05A | | K0919-08 | | K0919-07 | |
| Sample Date | Water | 6/14/06 | | 8/24/07 | | 12/23/08 | | 3/9/10 | | 5/24/11 | | 5/24/11 | |
| Filtered/Unfiltered | Criteria | Unfiltered | | Unfiltered | | Unfiltered | | Unfiltered | | Unfiltered | | Filtered | |
| | | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | | conc. | Q |
| Aluminum | NC | 780 | | 314 | | 7,090 | | 4,830 | E | 652 | | ND | |
| Antimony | 3 | 1.5 | B | ND | | ND | | ND | | ND | | ND | |
| Arsenic | 25 | ND | | ND | | 5.6 | B | 6.0 | B | 5.6 | B | ND | |
| Barium | 1,000 | 40.5 | B | 31.5 | B | 162 | B | 107 | B | 57.1 | B | 50.4 | B |
| Beryllium | 3 | ND | | ND | | 0.38 | B | 0.28 | B | ND | | ND | |
| Cadmium | 5 | 4.9 | B | 1.5 | B | ***59.1*** | | ***26*** | | ***9.2*** | | ***7.6*** | |
| Calcium | NC | 13,100 | | 12,900 | | 35,800 | | 18,700 | | 18,300 | | 18,400 | |
| Chromium | 50 | ***95.8*** | | ***248*** | | ***69.6*** | | ***68.6*** | | ***51.3*** | | 29.6 | |
| Cobalt | NC | 2.0 | B | 1.2 | B | 5.1 | B | 2.7 | B | 0.72 | B | ND | |
| Copper | 200 | 22.2 | B | 8.9 | B | 110 | | 42.8 | | 13.6 | B | ND | |
| Iron | 300 | ***728*** | | ***389*** | | ***9,320*** | | ***14,000*** | ***N*** | ***1,780*** | ***N*** | ***1,430*** | ***N*** |
| Lead | 25 | 2.9 | B | 3.4 | B | ***221*** | | ***76.5*** | | 18.8 | | ND | |
| Magnesium | 35,000 | 1,610 | E | 3,000 | | 6,340 | | 2,910 | | 3,840 | | 3,700 | |
| Manganese | 300 | 35.3 | B | 21.2 | B | 231 | | 186 | | 260 | | 235 | |
| Mercury | 0.7 | ND | | ND | | ND | | 0.1 | B | ND | | ND | |
| Nickel | 100 | 7.5 | B | 4.4 | B | 53.2 | | 18.3 | B | 11.8 | B | 8.7 | B |
| Potassium | NC | 3,320 | | 4,140 | | 7,090 | | 1,670 | | 4,430 | | 4,570 | |
| Selenium | 10 | ND | | 6.7 | B | ND | | ND | | ND | | ND | |
| Silver | 50 | ND | | 3.2 | B | 4.3 | B | ND | | ND | | ND | |
| Sodium | 20,000 | ***31,900*** | | ***28,900*** | | **561,000** | | **25,400** | | **20,400** | | **20,300** | |
| Thallium | 0.50 | ND | | ***3.4*** | ***B*** | ND | | ND | | ND | | ND | |
| Vanadium | NC | 0.58 | B | 0.51 | B | 22.5 | B | 12.6 | B | 2.4 | B | ND | |
| Zinc | 2,000 | 40.1 | B | 27.5 | B | 520 | | 279 | | 99.1 | | 70.1 | |

Notes:

All values in µg/L
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N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-14 | MW-14 | MW-14 | MW-14 | MW-14 | MW-14 | MW-14 | MW-14 |
|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-14 | LMW-14F | LMW-14 | LMW-14F | LMW-14 | LMW-14F | LMW-14 | LMW-14F |
| Laboratory ID | Ground | L1807-07 | L1808-07 | AC75576-021 | AC75576-022 | AC83866-031 | AC83866-032 | AC91268-009 | AC91268-010 |
| Sample Date | Water | 8/21/12 | 8/21/12 | 11/5/13 | 11/5/13 | 3/20/15 | 3/20/15 | 5/9/16 | 5/9/16 |
| Filtered/Unfiltered | Criteria | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered |
| | | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q |
| Aluminum | NC | 314 | 954 | 5,300 | ND | 1,500 | ND | 4,000 | 1,200 |
| Antimony | 3 | ND | ND | 2.2 | ND | ND | ND | ND | ND |
| Arsenic | 25 | ND | ND | 3.2 | ND | ND | ND | 3.3 | 2.4 |
| Barium | 1,000 | 47.2 B | 43.3 B | 56.0 | ND | ND | ND | 55.0 | 57.0 |
| Beryllium | 3 | ND | ND | ND | ND | ND | ND | ND | ND |
| Cadmium | 5 | ***9.3*** | 3.7 B | ***6.6*** | 2.4 | 3.5 | 2.4 | 4.7 | ND |
| Calcium | NC | 28,100 | 10,900 | 11,000 | 12,000 | 9,700 | 8,900 | 7,500 | 11,000 |
| Chromium | 50 | 2.4 B | ***88.2*** | ***170*** | ND | ***74.0*** | ND | ***96.0*** | ***56.0*** |
| Cobalt | NC | ND | ND | ND | ND | ND | ND | 2.2 | ND |
| Copper | 200 | 5.0 B | 7.2 B | ND | ND | ND | ND | ND | ND |
| Iron | 300 | 279 | ***1,180*** | ***6,000*** | ***930*** | ***1,800*** | ND | ***4,900*** | ***1,700*** |
| Lead | 25 | ND | 13.2 | ***53.0*** | 3.7 | 14.0 | ND | ***32.0*** | 9.9 |
| Magnesium | 35,000 | 5,450 | 2,470 | ND | ND | ND | ND | ND | ND |
| Manganese | 300 | ND | 211 | 290 | ***300*** | 130 | 110 | 91 | 110 |
| Mercury | 0.7 | ND | ND | ND | ND | ND | ND | ND | ND |
| Nickel | 100 | 1.1 B | 6.1 B | ND | ND | ND | ND | ND | ND |
| Potassium | NC | 2,990 E | 4,170 | 5,000 | ND | ND | ND | ND | ND |
| Selenium | 10 | ND | ND | ND | ND | ND | ND | ND | ND |
| Silver | 50 | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 20,000 | 15,400 | 15,400 | 10,000 | 12,000 | ***110,000*** | ***100,000*** | 6,300 | 11,000 |
| Thallium | 0.50 | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | NC | 1.9 B | 2.3 B | ND | ND | ND | ND | ND | ND |
| Zinc | 2,000 | 56.3 | 25.5 B | 94.0 | ND | 77.0 | ND | 210.0 | 82.0 |

Notes:
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B - Estimated value
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***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-20 | | MW-20 | | MW-20 | | MW-20 | | MW-20 | | MW-20 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-20 | | LMW-20 | | LMW-20 | | LMW-20 | | LMW-20 | | LMW-20 | |
| Laboratory ID | Ground | E0833-05A | | F1192-03A | | G2136-04A | | J0429-08A | | K0943-05 | | K0943-06 | |
| Sample Date | Water | 6/14/06 | | 8/22/07 | | 11/13/08 | | 3/9/10 | | 5/26/11 | | 5/26/11 | |
| Filtered/Unfiltered | Criteria | Unfiltered | | Unfiltered | | Unfiltered | | Unfiltered | | Unfiltered | | Filtered | |
| | | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | | conc. | Q |
| Aluminum | NC | 223 | | 299 | | 81.6 | B | 404 | E | 303 | | ND | |
| Antimony | 3 | 1.7 | B | ***9.5*** | ***B*** | ND | | ***4.4*** | ***B*** | ND | | ND | |
| Arsenic | 25 | ND | | ND | | ND | | ND | | ND | | ND | |
| Barium | 1,000 | 38.9 | B | 57.8 | B | 48.8 | B | 35.0 | B | 27.0 | B | 25.4 | B |
| Beryllium | 3 | ND | | ND | | ND | | 0.057 | B | ND | | ND | |
| Cadmium | 5 | 1 | B | 0.45 | B | 0.74 | B | ND | | ND | | ND | |
| Calcium | NC | 13,200 | | 20,600 | | 4,420 | | 9,050 | | 7,700 | | 7,870 | |
| Chromium | 50 | 4.6 | B | 3.1 | B | 2.1 | B | 5.1 | B | 5.1 | B | 1.1 | B |
| Cobalt | NC | 0.92 | B | 2.5 | B | ND | | 1.1 | B | 1.2 | B | 0.93 | B |
| Copper | 200 | 13.6 | B | 8.7 | B | ND | | 5.7 | B | 6.0 | B | ND | |
| Iron | 300 | ***1,710*** | | ***624*** | | 164 | B | ***1,370*** | ***N*** | ***879*** | | 71.7 | B |
| Lead | 25 | 1.5 | B | 3.7 | B | ND | | 4.9 | B | ND | | ND | |
| Magnesium | 35,000 | 6,050 | E | 9,820 | | 3,400 | | 4,400 | | 3,790 | | 3,870 | |
| Manganese | 300 | 27.8 | B | 60.5 | | 35.0 | B | 27.1 | B | 17.5 | B | ND | |
| Mercury | 0.7 | ND | | ND | | ND | | 0.064 | B | ND | | ND | |
| Nickel | 100 | 4.6 | B | 2.4 | B | 1.8 | B | 3.5 | B | 1.8 | B | ND | |
| Potassium | NC | 2,050 | | 2,220 | | 8,190 | | 1,970 | | 2,430 | | 2,060 | |
| Selenium | 10 | 1.1 | B | ND | | ND | | ND | | ND | | ND | |
| Silver | 50 | ND | | 5.2 | B | 0.6 | B | ND | | ND | | ND | |
| Sodium | 20,000 | ***21,800*** | | ***31,100*** | | ***29,700*** | | ***39,600*** | | ***38,400*** | | ***40,300*** | |
| Thallium | 0.50 | ND | | ND | | ND | | ND | | ND | | ND | |
| Vanadium | NC | 0.48 | B | 1.6 | B | ND | | 1.2 | B | ND | | ND | |
| Zinc | 2,000 | 48.7 | B | 32.8 | B | 28.5 | B | 187 | | 52.5 | | 29.7 | B |

Notes:

All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-20 | MW-20 | MW-20 | MW-20 | MW-20 | MW-20 | MW-20 | MW-20 |
|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-20 | LMW-20F | LMW-20 | LMW-20F | LMW-20 | LMW-20F | LMW-20 | LMW-20F |
| Laboratory ID | Ground | L1807-09 | L1808-09 | AC75576-025 | AC75576-026 | AC83866-027 | AC83866-028 | AC91321-001 | AC91321-003 |
| Sample Date | Water | 8/21/12 | 8/21/12 | 11/5/13 | 11/5/13 | 3/19/15 | 3/19/15 | 5/10/16 | 5/10/16 |
| Filtered/Unfiltered | Criteria | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered |
| | | conc. Q | conc. Q | conc. | conc. Q | conc. | conc. Q | conc. | conc. Q |
| Aluminum | NC | 411 | ND | ND | ND | 2,000 | ND | 1,200 | ND |
| Antimony | 3 | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | 25 | ND | ND | ND | ND | ND | ND | ND | ND |
| Barium | 1,000 | 42.1 B | 40 B | ND | ND | ND | ND | ND | ND |
| Beryllium | 3 | ND | ND | ND | ND | ND | ND | ND | ND |
| Cadmium | 5 | ND | ND | ND | ND | ND | ND | ND | ND |
| Calcium | NC | 17,400 | 16,900 | 19,000 | 18,000 | 16,000 | 13,000 | 16,000 | 14,000 |
| Chromium | 50 | 2.0 B | 0.91 B | ND | ND | ND | ND | ND | ND |
| Cobalt | NC | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 200 | ND | ND | ND | ND | ND | ND | ND | ND |
| Iron | 300 | ***398*** | ND | ND | ND | ***2,700*** | ND | ***7,600*** | ND |
| Lead | 25 | ND | ND | ND | ND | 6.1 | ND | 5.2 | ND |
| Magnesium | 35,000 | 8,990 | 8,870 | 9,000 | 9,200 | 7,700 | 6,200 | 7,800 | 7,000 |
| Manganese | 300 | 23.2 B | ND | ND | ND | 64.0 | ND | 70.0 | ND |
| Mercury | 0.7 | ND | ND | ND | ND | ND | ND | ND | ND |
| Nickel | 100 | ND | 1.0 B | ND | ND | ND | ND | ND | ND |
| Potassium | NC | 1,840 E | 1,710 | ND | ND | ND | ND | ND | ND |
| Selenium | 10 | ND | ND | ND | ND | ND | ND | ND | ND |
| Silver | 50 | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 20,000 | ***21,700*** | ***21,400*** | ***21,000*** | ***22,000*** | 18,000 | 16,000 | 18,000 | 17,000 |
| Thallium | 0.50 | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | NC | ND | ND | ND | ND | ND | ND | ND | ND |
| Zinc | 2,000 | ND | ND | ND | ND | ND | ND | 1,500 | ND |

Notes:

All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-21 | | MW-21 | | MW-21 | | MW-21 | | MW-21 | | MW-21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-21 | | LMW-21 | | LMW-21 | | LMW-21 | | LMW-21 | | LMW-21 | |
| Laboratory ID | Ground | E0833-06A | | F1192-01A | | G2136-05A | | J0429-09A | | K0943-07 | | K0943-08 | |
| Sample Date | Water | 6/14/06 | | 8/22/07 | | 11/14/08 | | 3/9/10 | | 5/26/11 | | 5/26/11 | |
| Filtered/Unfiltered | Criteria | Unfiltered | | Unfiltered | | Unfiltered | | Unfiltered | | Unfiltered | | Filtered | |
| | | conc. | Q | conc. | Q | conc. | Q | conc. | Q | conc. | | conc. | Q |
| Aluminum | NC | ND | | 197 | B | 457 | | 793 | E | 319 | | ND | |
| Antimony | 3 | 1.9 | B | ***6.7*** | ***B*** | ND | | ND | | ND | | ND | |
| Arsenic | 25 | 2.2 | B | ND | | ND | | ND | | 4.3 | B | ND | |
| Barium | 1,000 | 79.3 | B | 60.9 | B | 58.2 | B | 119 | B | 78.8 | B | 76.2 | B |
| Beryllium | 3 | ND | | ND | | ND | | 0.16 | B | ND | | ND | |
| Cadmium | 5 | ND | | 1.5 | B | 4.8 | B | 1.1 | B | 1.2 | B | ND | |
| Calcium | NC | 7,520 | | 5,190 | | 11,900 | | 12,600 | | 17,000 | | 16,900 | |
| Chromium | 50 | 0.94 | B | 3.0 | B | 2.3 | B | 9.0 | B | 6.2 | B | 3.3 | B |
| Cobalt | NC | 0.48 | B | 1.5 | B | ND | | 1.5 | B | ND | | ND | |
| Copper | 200 | ND | | 13.7 | B | 6.6 | B | 8.2 | B | 8.5 | B | ND | |
| Iron | 300 | 31.4 | B | ***503*** | | 198 | B | ***1,840*** | ***N*** | ***694*** | | 32 | B |
| Lead | 25 | ND | | 4.5 | B | 2.6 | B | 8.2 | B | ND | | ND | |
| Magnesium | 35,000 | 5,440 | E | 3,320 | | 2,960 | | 8,380 | | 6,960 | | 7,240 | |
| Manganese | 300 | 26.4 | B | 51.8 | | ***627*** | | 57.7 | | 36.1 | B | 19.7 | B |
| Mercury | 0.7 | ND | | ND | | ND | | 0.058 | B | ND | | ND | |
| Nickel | 100 | 1.9 | B | 2.4 | B | 6.9 | B | 4.9 | B | 3.3 | B | 1.3 | B |
| Potassium | NC | 5,670 | | 6,350 | | 6,250 | | 12,700 | | 12,500 | | 9,270 | |
| Selenium | 10 | 4.1 | B | ND | | ND | | ND | | ND | | ND | |
| Silver | 50 | ND | | ND | | ND | | ND | | ND | | ND | |
| Sodium | 20,000 | ***24,500*** | | ***27,200*** | | 19,200 | | ***31,800*** | | ***24,300*** | | ***21,700*** | |
| Thallium | 0.50 | ND | | ND | | ND | | ND | | ND | | ND | |
| Vanadium | NC | ND | | 0.063 | B | ND | | 2.1 | B | 1.5 | B | ND | |
| Zinc | 2,000 | 14.2 | B | 40.5 | B | 69.1 | | 67.6 | | 65.1 | | 30.5 | B |

Notes:

All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 3**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**JUNE 2006 THROUGH MAY 2016 SAMPLING EVENTS**
**SUMMARY OF TAL METALS IN GROUNDWATER**

| Sample Location | NYSDEC | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 |
|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-21 | LMW-21 | LMW-21 | LMW-21F | LMW-21 | LMW-21F | LMW-21 | LMW-21F |
| Laboratory ID | Ground | L1807-08 | L1808-08 | AC75576-027 | AC75576-028 | AC83866-029 | AC83866-026 | AC91321-002 | AC91321-004 |
| Sample Date | Water | 8/21/12 | 8/21/12 | 11/5/13 | 11/5/13 | 3/19/15 | 3/19/15 | 5/10/16 | 5/10/16 |
| Filtered/Unfiltered | Criteria | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered | Unfiltered | Filtered |
| | | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q | conc. Q |
| Aluminum | NC | 746 | ND | 410 | ND | ND | ND | 1,400 | ND |
| Antimony | 3 | ND | ***11.9 B*** | ND | ND | ND | ND | ND | ND |
| Arsenic | 25 | ND | ND | ND | ND | ND | ND | 2.1 | ND |
| Barium | 1,000 | 92.6 B | 85.9 B | 67.0 | 67.0 | 56.0 | 56.0 | 73.0 | 68.0 |
| Beryllium | 3 | ND | ND | ND | ND | ND | ND | ND | ND |
| Cadmium | 5 | ND | ND | ND | ND | ND | ND | ND | ND |
| Calcium | NC | 14,300 | 14,200 | 14,000 | 14,000 | 12,000 | 12,000 | 12,000 | 13,000 |
| Chromium | 50 | 13.2 B | 10.6 B | ND | ND | ND | ND | ND | ND |
| Cobalt | NC | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 200 | 3.9 B | ND | ND | ND | ND | ND | ND | ND |
| Iron | 300 | ***1,330*** | ND | ***760*** | ND | ND | ND | ***2,500*** | ND |
| Lead | 25 | ND | ND | ND | ND | ND | ND | 4.2 | ND |
| Magnesium | 35,000 | 6,050 | 5,820 | 6,100 | 6,100 | ND | ND | 6,400 | 6,700 |
| Manganese | 300 | 96.1 | 56.7 | 100 | 64.0 | ND | ND | 96.0 | 63.0 |
| Mercury | 0.7 | ND | ND | ND | ND | ND | ND | ND | ND |
| Nickel | 100 | 2.8 B | 2.4 B | ND | ND | ND | ND | ND | ND |
| Potassium | NC | 7,500 E | 7,050 | 6,200 | 5,800 | ND | ND | ND | ND |
| Selenium | 10 | ND | ND | ND | ND | ND | ND | ND | ND |
| Silver | 50 | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 20,000 | 19,700 | 19,400 | 17,000 | 18,000 | 15,000 | 15,000 | 17,000 | 19,000 |
| Thallium | 0.50 | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | NC | 1.8 B | ND | ND | ND | ND | ND | ND | ND |
| Zinc | 2,000 | 15.5 B | 6.0 B | ND | ND | ND | ND | ND | ND |

Notes:
All values in µg/L
NC - No NYSDEC criterion
ND - Not Detected
B - Estimated value
E - Estimated value due to interference
N - Spike recovery outside control limits

***BOLD/Italics*** - Exceeds criterion
Source Area Wells
Side Gradient Wells
Downgradient Wells
Sentinel Wells
Groundwater Contaminant of Concern

**TABLE 4**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**MAY 2016 SAMPLING EVENT**
**COMPARISON OF FILTERED AND UNFILTERED METALS DATA IN GROUNDWATER**

| Sample Location | NYSDEC | MW-2 | MW-2 | MW-2 | MW-3 | MW-3 | MW-3 | MW-4 | MW-4 | MW-4 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-2 | LMW-2F | | LMW-3 | LMW-3F | | LMW-4 | LMW-4F | |
| Laboratory ID | Ground | AC91321-008 | AC91321-009 | | AC91321-006 | AC91321-007 | | AC91321-010 | AC91321-011 | |
| Sample Date | Water | 5/11/16 | 5/11/16 | | 5/11/16 | 5/11/16 | | 5/11/16 | 5/11/16 | |
| Filtered/Unfiltered | Criteria | Unfiltered conc. Q | Filtered conc. Q | Percent Dissolved | Unfiltered conc. Q | Filtered conc. Q | Percent Dissolved | Unfiltered conc. Q | Filtered conc. Q | Percent Dissolved |
| Aluminum | NC | ND | ND | NC | 330 | ND | NC | ND | ND | NC |
| Antimony | 3 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Arsenic | 25 | ND | ND | NC | ND | ND | NC | 2.1 | ND | NC |
| Barium | 1,000 | ND | ND B | NC | ND | ND | NC | ND | ND | NC |
| Beryllium | 3 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Cadmium | 5 | ND | ND | NC | ***7.9*** | ***5.8*** | 73.4% | ***24.0*** | ***23.0*** | 95.8% |
| Calcium | NC | 29,000 | 30,000 | 103.4% | 26,000 | 25,000 | 96.2% | 26,000 | 26,000 | 100.0% |
| Chromium | 50 | ND | ND | NC | ***97.0*** | ND | NC | ND | ND | NC |
| Cobalt | NC | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Copper | 200 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Iron | 300 | ***ND*** | ND | NC | 700 | ND | NC | ND | ND | NC |
| Lead | 25 | ND | ND | NC | 7.2 | ND | NC | ND | ND | NC |
| Magnesium | 35,000 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Manganese | 300 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Mercury | 0.7 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Nickel | 100 | ND | ND B | NC | ND | ND | NC | ND | ND | NC |
| Potassium | NC | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Selenium | 10 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Silver | 50 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Sodium | 20,000 | 14,000 | 15,000 | 107.1% | ***26,000*** | ***25,000*** | 96.2% | ***26,000*** | ***26,000*** | 100.0% |
| Thallium | 0.50 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Vanadium | NC | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Zinc | 2,000 | ND | ND B | NC | ND | ND | NC | 120 | 110 | 91.7% |
| Turbidity (NTU) | | 21.9 | | | 48.6 | | | 12.9 | | |

Notes:
E - Estimated value due to interference
B - Estimated value
ND - Not Detected
***BOLD/Italics*** - Exceeds criterion

All values except turbidity are in micrograms per liter (µg/L)
% Dissolved = filtered conc. / unfiltered conc.
NC - No NYSDEC criterion or Not Calculable
Groundwater Contaminant of Concern

**TABLE 4**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**MAY 2016 SAMPLING EVENT**
**COMPARISON OF FILTERED AND UNFILTERED METALS DATA IN GROUNDWATER**

| Sample Location | NYSDEC | MW-5 | MW-5 | MW-5 | MW-6 | MW-6 | MW-6 | MW-18 | MW-18 | MW-18 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-5 | LMW-5F | | LMW-6 | LMW-6F | | LMW-18 | LMW-18F | |
| Laboratory ID | Ground | AC91268-015 | AC91268-016 | | AC91268-017 | AC91268-018 | | AC91268-019 | AC91268-020 | |
| Sample Date | Water | 5/10/16 | 5/10/16 | | 5/10/16 | 5/10/16 | | 5/10/16 | 5/10/16 | |
| Filtered/Unfiltered | Criteria | Unfiltered conc. Q | Filtered conc. Q | Percent Dissolved | Unfiltered conc. Q | Filtered conc. Q | Percent Dissolved | Unfiltered conc. Q | Filtered conc. Q | Percent Dissolved |
| Aluminum | NC | 210 | ND | NC | 800 | ND | NC | ND | ND | NC |
| Antimony | 3 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Arsenic | 25 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Barium | 1,000 | 61 | 68 | 111.5% | ND | ND | NC | 86.0 | 76.0 | 88.4% |
| Beryllium | 3 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Cadmium | 5 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Calcium | NC | 18,000 | 20,000 | 111.1% | 8,800 | 7,900 | 89.8% | 22,000 | 21,000 | 95.5% |
| Chromium | 50 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Cobalt | NC | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Copper | 200 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Iron | 300 | ND | ND | NC | ***990*** | ND | NC | ND | ND | NC |
| Lead | 25 | ND | ND | NC | 3.1 | ND | NC | ND | ND | NC |
| Magnesium | 35,000 | ND | ND | NC | ND | ND | NC | 5,400 | 5,200 | 96.3% |
| Manganese | 300 | ND | ND | NC | ND | ND | NC | ***1,000*** | ***750*** | 75% |
| Mercury | 0.7 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Nickel | 100 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Potassium | NC | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Selenium | 10 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Silver | 50 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Sodium | 20,000 | ***21,000*** | ***23,000*** | 109.5% | 8,700 | 8,800 | 101.1% | ***25,000*** | ***24,000*** | 96.0% |
| Thallium | 0.50 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Vanadium | NC | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Zinc | 2,000 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Turbidity (NTU) | | 3.2 | | | 182.0 | | | 3.0 | | |

Notes:
E - Estimated value due to interference
B - Estimated value
ND - Not Detected
***BOLD/Italics*** - Exceeds criterion

All values except turbidity are in micrograms per liter (µg/L)
% Dissolved = filtered conc. / unfiltered conc.
NC - No NYSDEC criterion or Not Calculable
Groundwater Contaminant of Concern

**TABLE 4**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**MAY 2016 SAMPLING EVENT**
**COMPARISON OF FILTERED AND UNFILTERED METALS DATA IN GROUNDWATER**

| Sample Location | NYSDEC | MW-19 | MW-19 | MW-19 | MW-10 | MW-10 | MW-10 | MW-16 | MW-16 | MW-16 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-19 | LMW-19F | | LMW-10 | LMW-10F | | LMW-16 | LMW-16F | |
| Laboratory ID | Ground | AC91268-021 | AC91268-022 | | AC91268-013 | AC91268-014 | | AC91268-011 | AC91268-012 | |
| Sample Date | Water | 5/10/16 | 5/10/16 | | 5/9/16 | 5/9/16 | | 5/9/16 | 5/9/16 | |
| Filtered/Unfiltered | Criteria | Unfiltered conc. | Filtered conc. Q | Percent Dissolved | Unfiltered conc. Q | Filtered conc. Q | Percent Dissolved | Unfiltered conc. Q | Filtered conc. Q | Percent Dissolved |
| Aluminum | NC | 460 | ND | NC | ND | ND | NC | 1,200 | 370 | 30.8% |
| Antimony | 3 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Arsenic | 25 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Barium | 1,000 | ND | ND | NC | ND | ND | NC | 180 | 160 | 88.9% |
| Beryllium | 3 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Cadmium | 5 | ND | ND | NC | ***53.0*** | ***57.0*** | 107.5% | 4.2 | 4.1 | 97.6% |
| Calcium | NC | 16,000 | 14,000 | 87.5% | 22,000 | 22,000 | 100.0% | 11,000 | 10,000 | 90.9% |
| Chromium | 50 | ND | ND | NC | ***130*** | ***130*** | 100.0% | ND | ND | NC |
| Cobalt | NC | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Copper | 200 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Iron | 300 | 730 | ND | NC | ***ND*** | ND | NC | ***1,600*** | ND | NC |
| Lead | 25 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Magnesium | 35,000 | 6,000 | ND | NC | ND | ND | NC | ND | ND | NC |
| Manganese | 300 | ND | ND | NC | ND | ND | NC | ***700*** | ***580*** | 82.9% |
| Mercury | 0.7 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Nickel | 100 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Potassium | NC | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Selenium | 10 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Silver | 50 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Sodium | 20,000 | 19,000 | 16,000 | 84.2% | 18,000 | 18,000 | 100.0% | 11,000 | 11,000 | 100.0% |
| Thallium | 0.50 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Vanadium | NC | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Zinc | 2,000 | ND | ND | NC | ND | ND | NC | ND | ND | NC |
| Turbidity (NTU) | | 152 | | | 0.7 | | | 35.8 | | |

Notes:
E - Estimated value due to interference
B - Estimated value
ND - Not Detected
***BOLD/Italics*** - Exceeds criterion
All values except turbidity are in micrograms per liter (µg/L)
% Dissolved = filtered conc. / unfiltered conc.
NC - No NYSDEC criterion or Not Calculable
Groundwater Contaminant of Concern

**TABLE 4**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**MAY 2016 SAMPLING EVENT**
**COMPARISON OF FILTERED AND UNFILTERED METALS DATA IN GROUNDWATER**

| Sample Location | NYSDEC | MW-12 | MW-12 | MW-12 | MW-14 | MW-14 | MW-14 |
|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-12 | LMW-12F | | LMW-14 | LMW-14F | |
| Laboratory ID | Ground | AC91268-001 | AC91268-004 | | AC91268-009 | AC91268-010 | |
| Sample Date | Water | 5/9/16 | 5/9/16 | | 5/9/16 | 5/9/16 | |
| Filtered/Unfiltered | Criteria | Unfiltered conc. Q | filtered conc. Q | Percent Dissolved | Unfiltered conc. Q | Filtered conc. Q | Percent Dissolved |
| Aluminum | NC | 950 | ND | NC | 4,000 | 1,200 | 30.0% |
| Antimony | 3 | ND | ND | NC | ND | ND | NC |
| Arsenic | 25 | 3.2 | 2.0 | 62.5% | 3.3 | 2.4 | 72.7% |
| Barium | 1,000 | ND | ND | NC | 55.0 | 57.0 | 103.6% |
| Beryllium | 3 | 2.0 | ND | NC | ND | ND | NC |
| Cadmium | 5 | ***5.4*** | ND | NC | 4.7 | ND | NC |
| Calcium | NC | 27,000 | 28,000 | 103.7% | 7,500 | 11,000 | 146.7% |
| Chromium | 50 | ND | ND | NC | ***96.0*** | ***56.0*** | 58% |
| Cobalt | NC | 3.0 | ND | NC | 2.2 | ND | NC |
| Copper | 200 | ND | ND | NC | ND | ND | NC |
| Iron | 300 | ***980*** | ND | NC | ***4,900*** | ***1,700*** | 34.7% |
| Lead | 25 | 11 | ND | NC | ***32.0*** | 9.9 | 30.9% |
| Magnesium | 35,000 | ND | ND | NC | ND | ND | NC |
| Manganese | 300 | ND | ND | NC | 91 | 110 | 120.9% |
| Mercury | 0.7 | ND | ND | NC | ND | ND | NC |
| Nickel | 100 | ND | ND | NC | ND | ND | NC |
| Potassium | NC | ND | ND | NC | ND | ND | NC |
| Selenium | 10 | ND | ND | NC | ND | ND | NC |
| Silver | 50 | ND | ND | NC | ND | ND | NC |
| Sodium | 20,000 | ***30,000*** | ***32,000*** | 106.7% | 6,300 | 11,000 | 174.6% |
| Thallium | 0.50 | 2.5 | ND | NC | ND | ND | NC |
| Vanadium | NC | ND | ND | NC | ND | ND | NC |
| Zinc | 2,000 | 65.0 | ND | NC | 210.0 | 82 | 39.0% |
| Turbidity (NTU) | | 67.1 | | | 343 | | |

Notes:
E - Estimated value due to interference
B - Estimated value
ND - Not Detected
***BOLD/Italics*** - Exceeds criterion

All values except turbidity are in micrograms per liter (µg/L)
% Dissolved = filtered conc. / unfiltered conc.
NC - No NYSDEC criterion or Not Calculable
Groundwater Contaminant of Concern

**TABLE 4**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**MAY 2016 SAMPLING EVENT**
**COMPARISON OF FILTERED AND UNFILTERED METALS DATA IN GROUNDWATER**

| Sample Location | NYSDEC | MW-20 | MW-20 | MW-20 | MW-21 | MW-21 | MW-21 |
|---|---|---|---|---|---|---|---|
| Sample ID | Class GA | LMW-20 | LMW-20F | | LMW-21 | LMW-21F | |
| Laboratory ID | Ground | AC91321-001 | AC91321-003 | | AC91321-002 | AC91321-004 | |
| Sample Date | Water | 5/10/16 | 5/10/16 | | 5/10/16 | 5/10/16 | |
| Filtered/Unfiltered | Criteria | Unfiltered conc. | Filtered conc. Q | Percent Dissolved | Unfiltered conc. Q | Filtered conc. Q | Percent Dissolved |
| Aluminum | NC | 1,200 | ND | NC | 1,400 | ND | NC |
| Antimony | 3 | ND | ND | NC | ND | ND | NC |
| Arsenic | 25 | ND | ND | NC | 2.1 | ND | NC |
| Barium | 1,000 | ND | ND | NC | 73.0 | 68.0 | 93.2% |
| Beryllium | 3 | ND | ND | NC | ND | ND | NC |
| Cadmium | 5 | ND | ND | NC | ND | ND | NC |
| Calcium | NC | 16,000 | 14,000 | 87.5% | 12,000 | 13,000 | 108.3% |
| Chromium | 50 | ND | ND | NC | ND | ND | NC |
| Cobalt | NC | ND | ND | NC | ND | ND | NC |
| Copper | 200 | ND | ND | NC | ND | ND | NC |
| Iron | 300 | ***7,600*** | ND | NC | 2,500 | ND | NC |
| Lead | 25 | 5.2 | ND | NC | 4.2 | ND | NC |
| Magnesium | 35,000 | 7,800 | 7,000 | 89.7% | 6,400 | 6,700 | 104.7% |
| Manganese | 300 | 70.0 | ND | NC | 96 | 63.0 | 65.6% |
| Mercury | 0.7 | ND | ND | NC | ND | ND | NC |
| Nickel | 100 | ND | ND | NC | ND | ND | NC |
| Potassium | NC | ND | ND | NC | ND | ND | NC |
| Selenium | 10 | ND | ND | NC | ND | ND | NC |
| Silver | 50 | ND | ND | NC | ND | ND | NC |
| Sodium | 20,000 | 18,000 | 17,000 | 94.4% | 17,000 | 19,000 | 111.8% |
| Thallium | 0.50 | ND | ND | NC | ND | ND | NC |
| Vanadium | NC | ND | ND | NC | ND | ND | NC |
| Zinc | 2,000 | 1,500 | ND | NC | ND | ND | NC |
| Turbidity (NTU) | | 19.6 | | | 95.3 | | |

Notes:
E - Estimated value due to interference
B - Estimated value
ND - Not Detected
***BOLD/Italics*** - Exceeds criterion

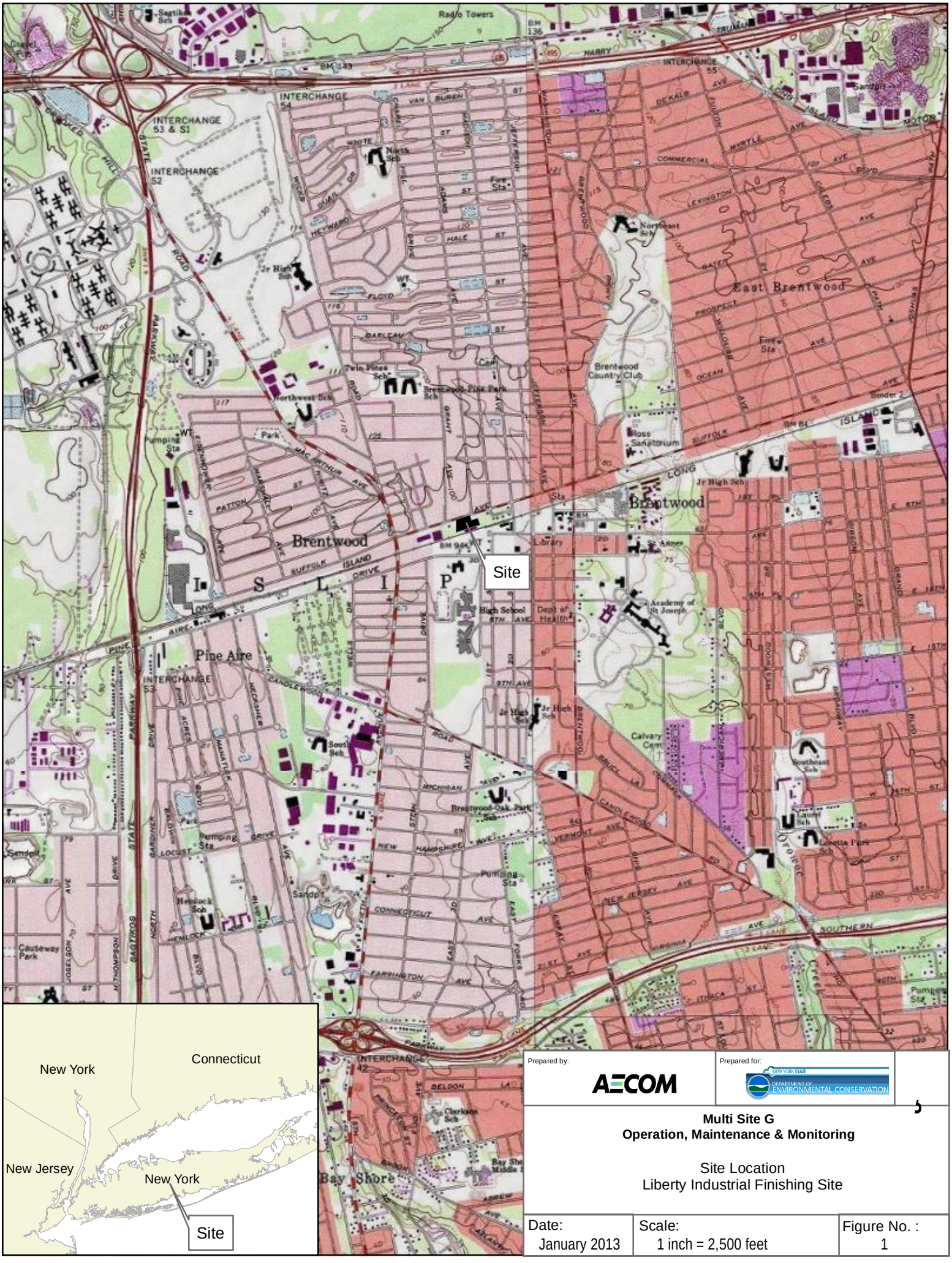
All values except turbidity are in micrograms per liter (µg/L)
% Dissolved = filtered conc. / unfiltered conc.
NC - No NYSDEC criterion or Not Calculable
Groundwater Contaminant of Concern

**TABLE 5**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**MAY 2016 (ROUND 9) SAMPLING EVENT**
**FIELD DUPLICATE DATA - TAL METALS IN GROUNDWATER**

| Sample Location | LMW-12 | LMW-12 | Precision | LMW-12 | LMW-12 | Precision |
|---|---|---|---|---|---|---|
| Sample ID | LMW-12U | LMW-62U | as | LMW-12F | LMW-62F | as |
| Laboratory ID | AC91268-001 | AC91268-007 | Percent | AC91268-004 | AC91268-008 | Percent |
| Sample Date | 5/9/16 | 5/9/16 | Difference | 5/9/16 | 5/9/16 | Difference |
| Filtered/Unfiltered | Unfiltered | Unfiltered | (RPD) | Filtered | Filtered | (RPD) |
| Metal | conc. Q | conc. Q | | conc. Q | conc. Q | |
| Aluminum | 950 | 1100 | 14.6% | ND | ND | NC |
| Antimony | ND | ND | NC | ND | ND | NC |
| Arsenic | 3.2 | 2.2 | 37.0% | 2.0 | ND | NC |
| Barium | ND | ND | NC | ND | ND | NC |
| Beryllium | 2.0 | ND | NC | ND | ND | NC |
| Cadmium | 5.4 | 3.3 | 48.3% | ND | ND | NC |
| Calcium | 27,000 | 28,000 | 3.6% | 28,000 | 27,000 | 3.6% |
| Chromium | ND | ND | NC | ND | ND | NC |
| Cobalt | 3.0 | ND | NC | ND | ND | NC |
| Copper | ND | ND | NC | ND | ND | NC |
| Iron | 980 | 1,200 | 20.2% | ND | 1,200 | NC |
| Lead | 11.0 | ND | NC | ND | ND | NC |
| Magnesium | ND | ND | NC | ND | ND | NC |
| Manganese | ND | ND | NC | ND | ND | NC |
| Mercury | ND | ND | NC | ND | ND | NC |
| Nickel | ND | ND | NC | ND | ND | NC |
| Potassium | ND | ND | NC | ND | ND | NC |
| Selenium | ND | ND | NC | ND | ND | NC |
| Silver | ND | ND | NC | ND | ND | NC |
| Sodium | 30,000 | 32,000 | 6.5% | 32,000 | 31,000 | 3.2% |
| Thallium | 2.5 | ND | NC | ND | ND | NC |
| Vanadium | ND | ND | NC | ND | ND | NC |
| Zinc | 65.0 | 67.0 | 3.0% | ND | ND | NC |

Notes:
All values in µg/L
NC - Not Calculable (analyte not detected in one or both analyses)
ND - Not Detected
B - Estimated value (greater than MDL but less than RL)
E - Estimated concentration due to interference based on serial dilution.

# Figures



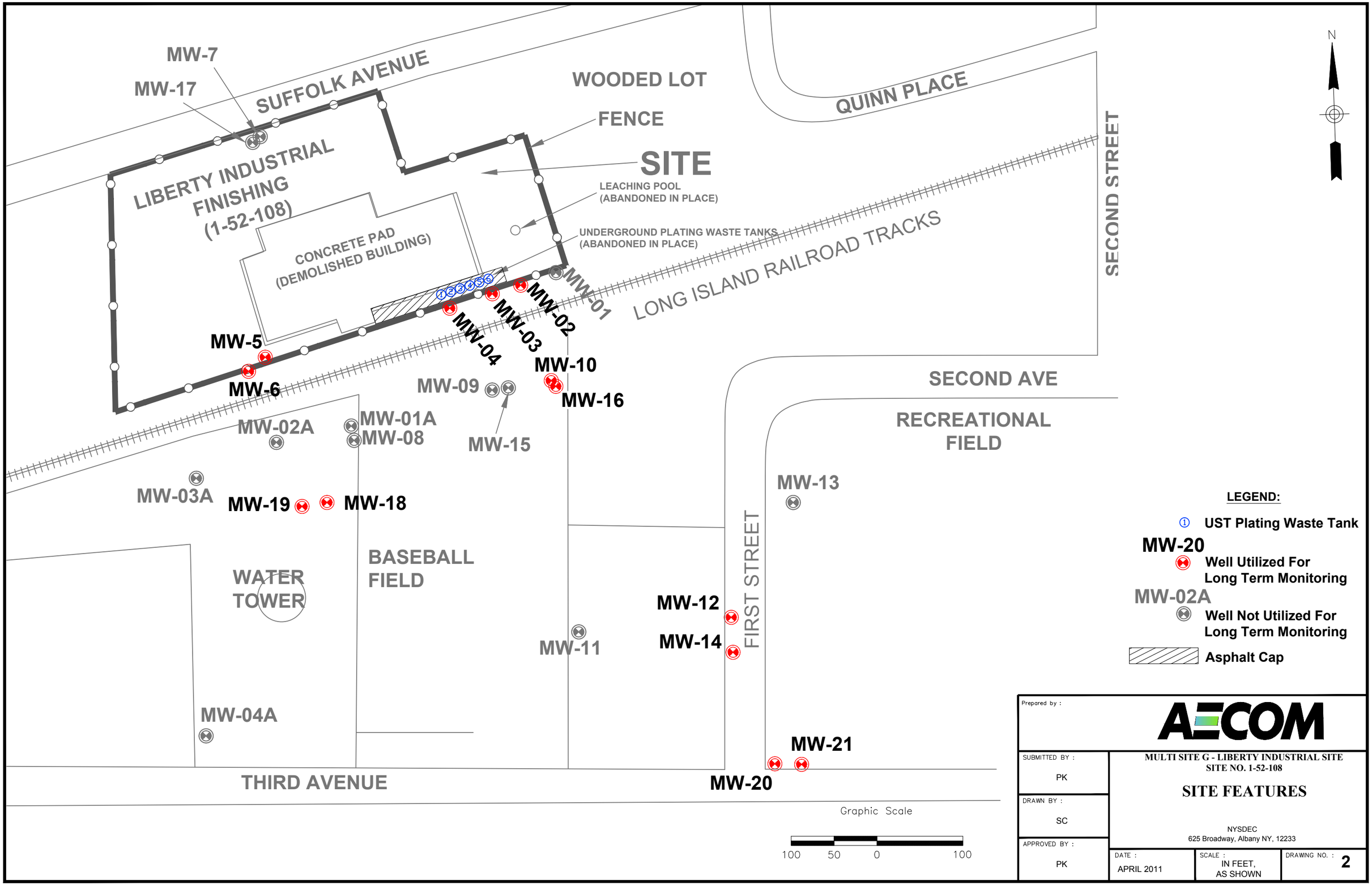

Prepared by: AECOM

Prepared for: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**Multi Site G**
**Operation, Maintenance & Monitoring**

Site Location
Liberty Industrial Finishing Site

| Date: | Scale: | Figure No. : |
|---|---|---|
| January 2013 | 1 inch = 2,500 feet | 1 |



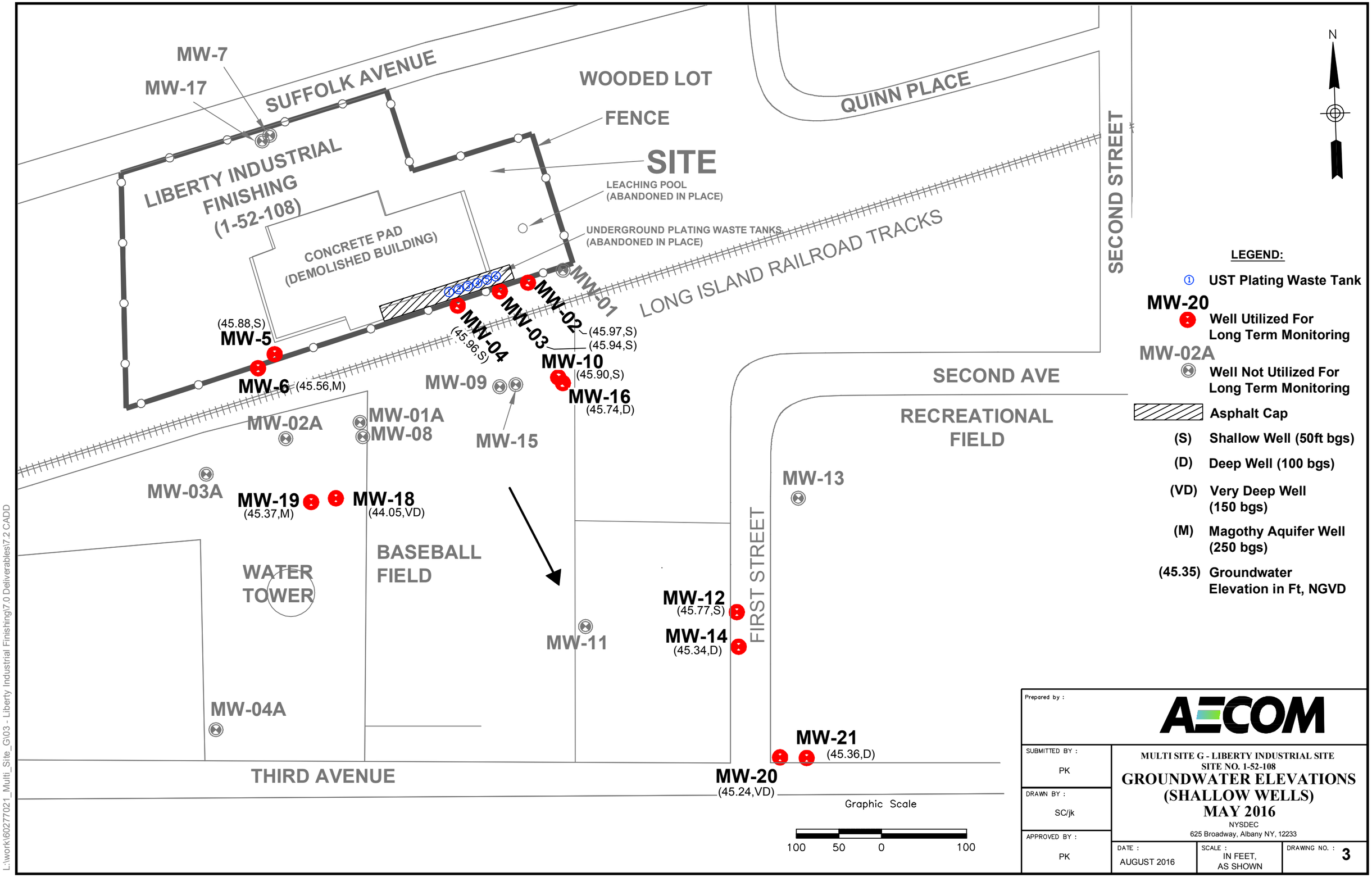

**LEGEND:**

- ① UST Plating Waste Tank
- MW-20 — Well Utilized For Long Term Monitoring
- MW-02A — Well Not Utilized For Long Term Monitoring
- Asphalt Cap

Prepared by : AECOM

| | |
|---|---|
| SUBMITTED BY : PK | MULTI SITE G - LIBERTY INDUSTRIAL SITE<br>SITE NO. 1-52-108 |
| DRAWN BY : SC | SITE FEATURES |
| APPROVED BY : PK | NYSDEC<br>625 Broadway, Albany NY, 12233 |
| DATE : APRIL 2011 | SCALE : IN FEET, AS SHOWN |
| | DRAWING NO. : 2 |

Piscataway on uspsw2vfp001\Data_uspsw2vfp001\Environment\(J)
File: J:\Project\LibertyIndustrialCadd\DrawingsVliberty prr Figures_2014-01-29.dwg Layout: Site Features Fig 2 User: karchj1 Plotted: Jan 29, 2014 - 12:57pm




Prepared by : AECOM

| | |
|---|---|
| SUBMITTED BY : PK | MULTI SITE G - LIBERTY INDUSTRIAL SITE<br>SITE NO. 1-52-108<br>GROUNDWATER ELEVATIONS (SHALLOW WELLS)<br>MAY 2016<br>NYSDEC<br>625 Broadway, Albany NY, 12233 |
| DRAWN BY : SC/jk | |
| APPROVED BY : PK | DATE : AUGUST 2016 / SCALE : IN FEET, AS SHOWN / DRAWING NO. : 3 |

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**FIGURE 4**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**
**GROUNDWATER HYDROGRAPH**

**Figure 4A**
**Liberty Industrial Finishing Site (1-52-108)**
**Groundwater Hydrograph - Shallow Wells**

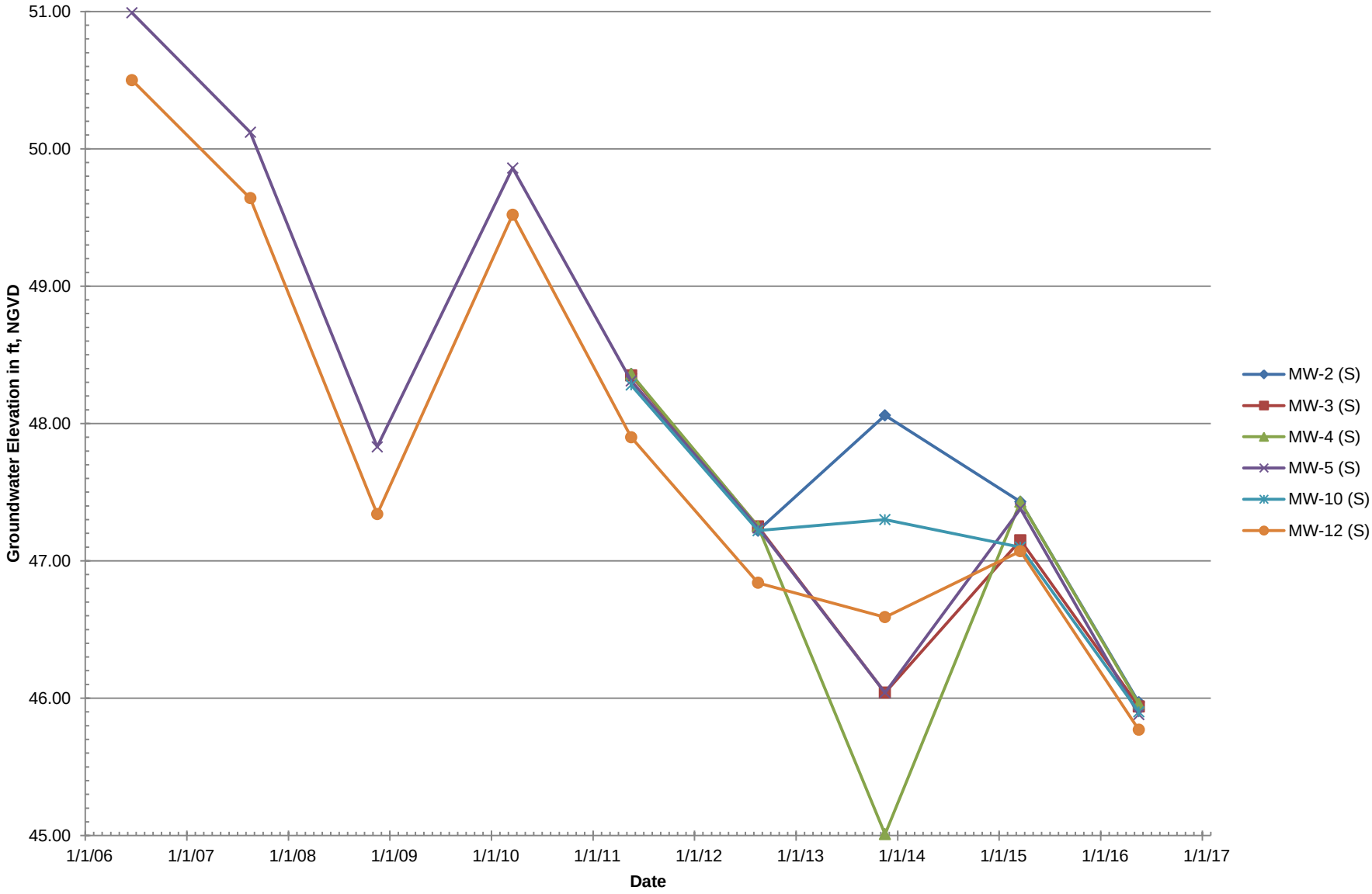


**Figure 4B**
**LIberty Industrial Finishing Site (1-52-108)**
**Groundwater Hydrograph - Deep Wells**

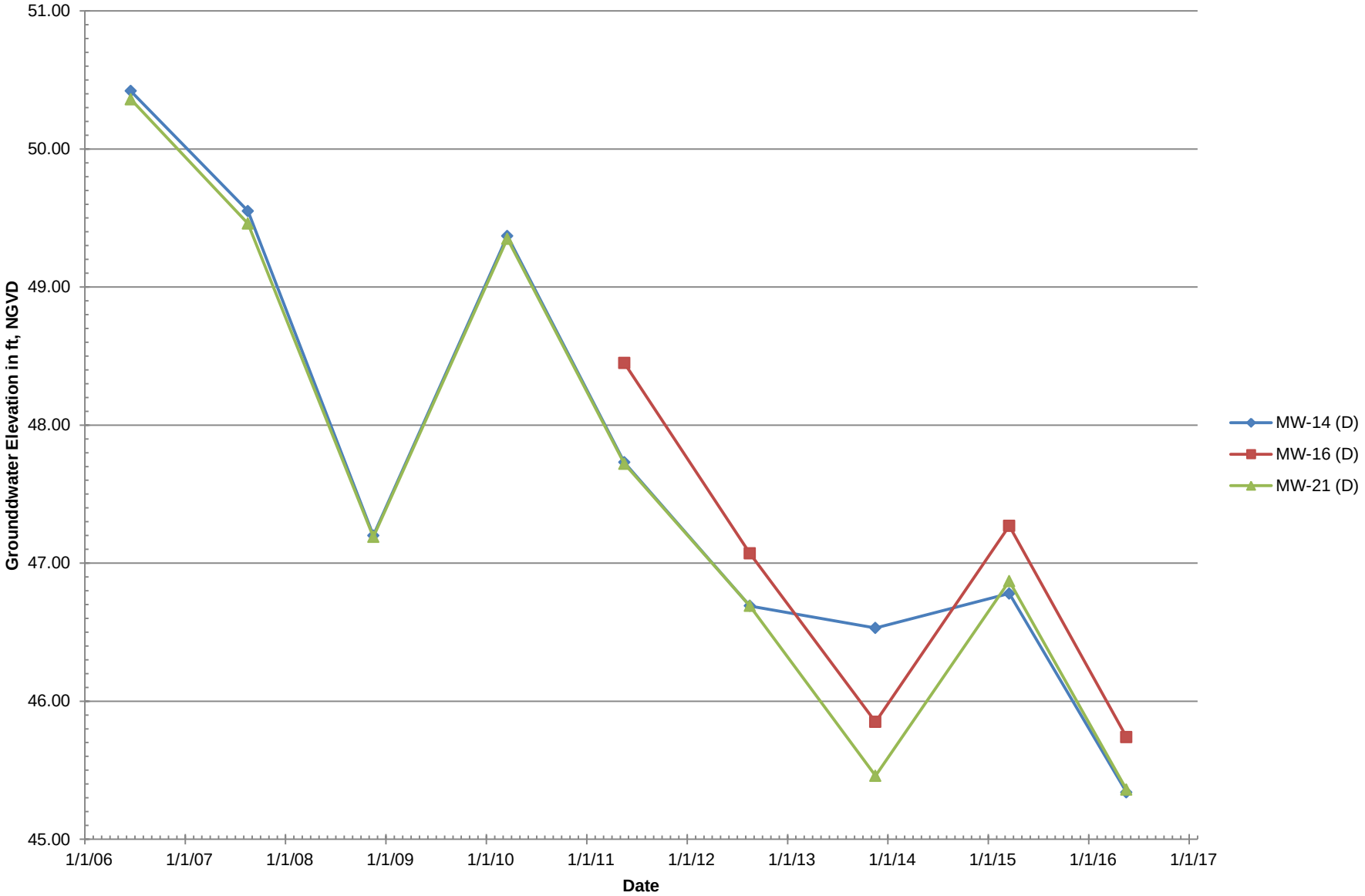


**Figure 4C**
**Liberty Industrial Finishing Site (1-52-108)**
**Groundwater Hydrograph, Very Deep Wells**

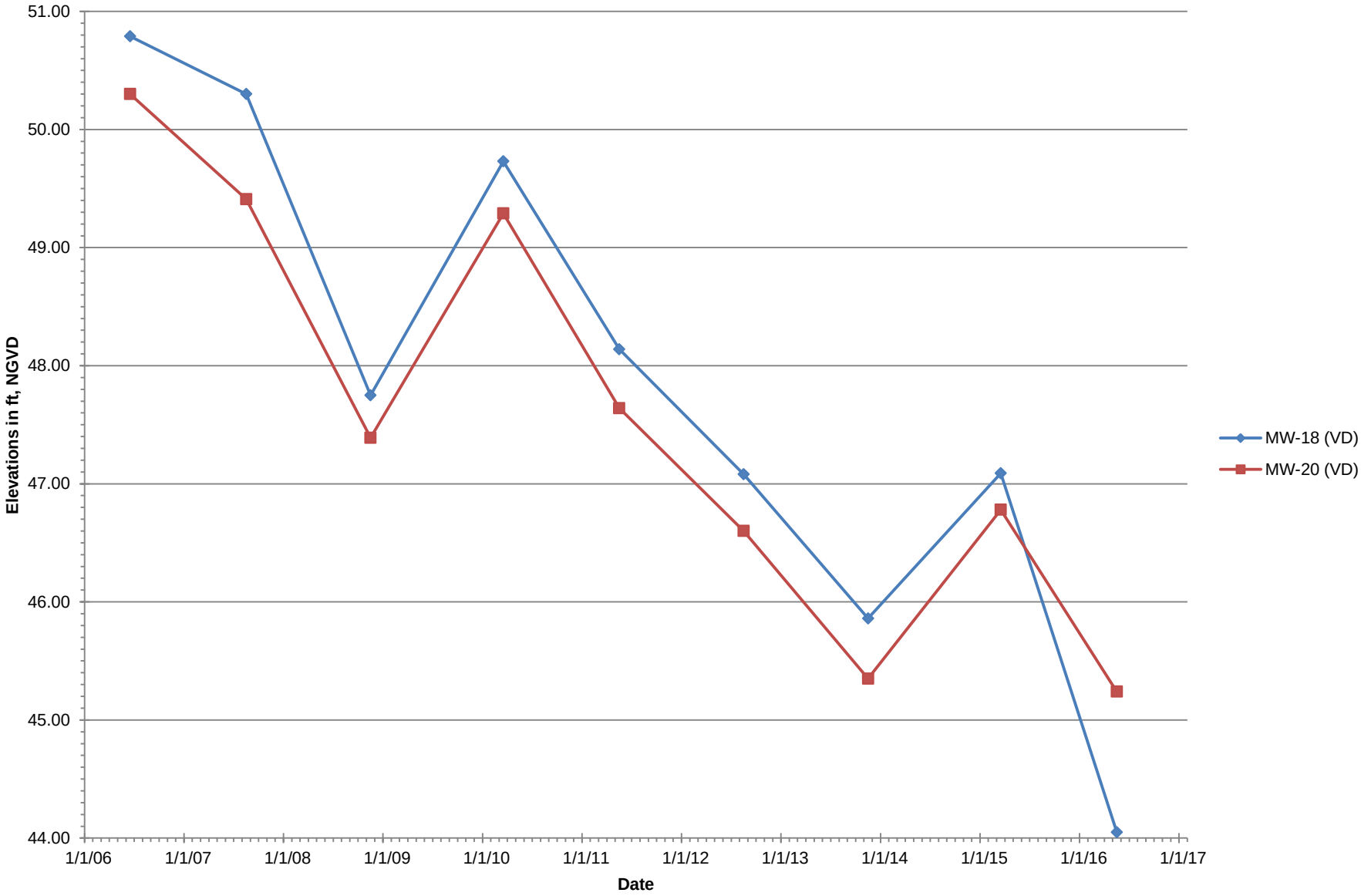
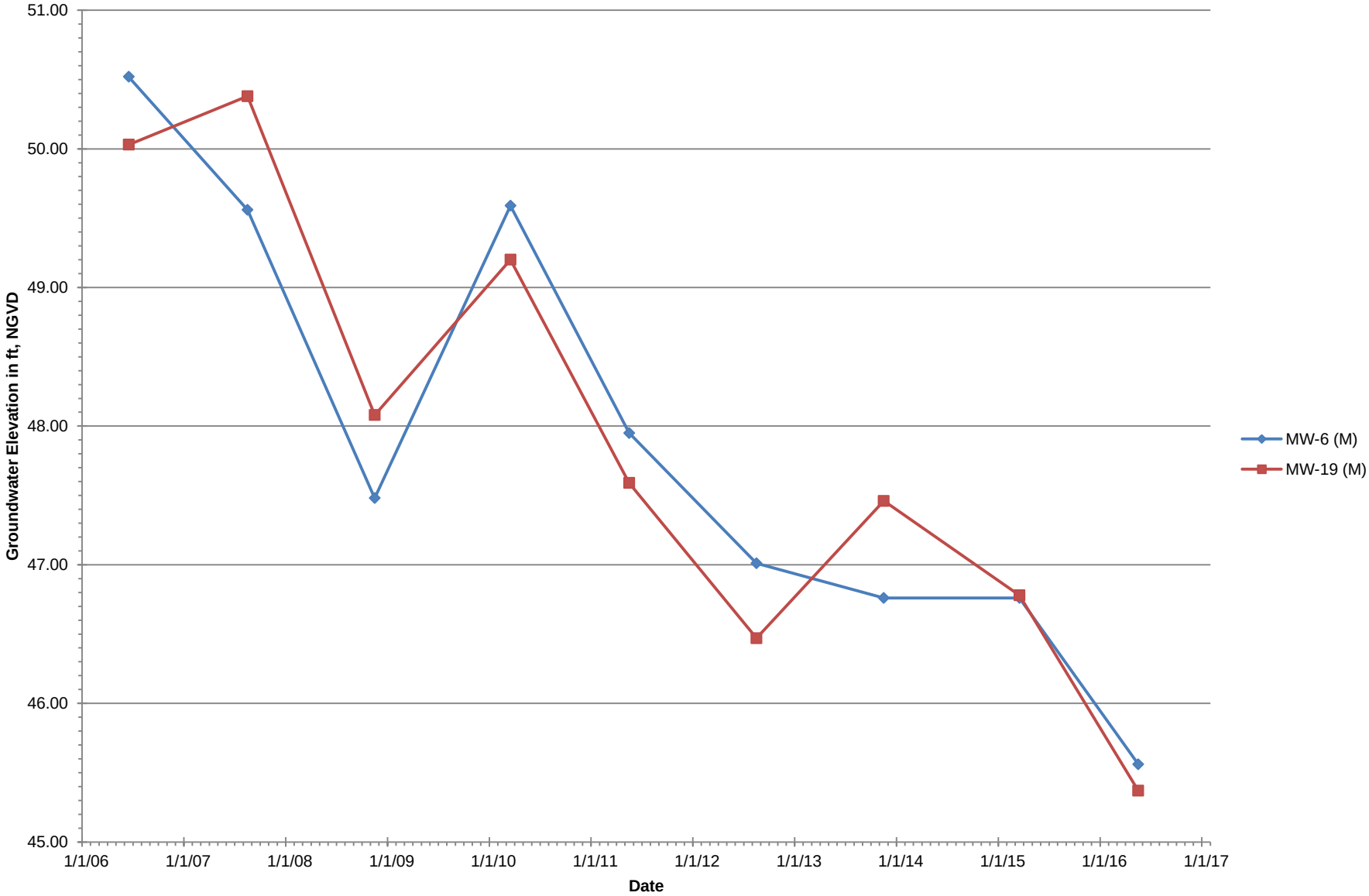


**Figure 4D**
**Liberty Industrial Finishing Site (1-52-108)**
**Groundwater Hydrograph, Magothy Wells**



| Compound | NYSDEC Criteria |
|---|---|
| Antimony | 3 |
| Cadmium | 5 |
| Chromium | 50 |
| Copper | 200 |
| Iron | 300 |
| Lead | 25 |
| Manganese | 300 |
| Selenium | 10 |
| Sodium | 20,000 |
| Thallium | 0.50 |

N

**LEGEND:**

- MW-20 — UST Plating Waste Tank
- Well Utilized For Long Term Monitoring
- Well Not Utilized For Long Term Monitoring
- (S) Shallow Well (50ft bgs)
- (D) Deep Well (100 bgs)
- (VD) Very Deep Well (150 bgs)
- (M) Magothy Aquifer Well (250 bg
- Asphalt Cap
- Source Area Wells
- Side Gradient Wells
- Downgradient Wells
- Sentinel Wells
- F Filtered
- ND Not Detected
- U Not Filtered
- *8.5* Concentration Exceeds the Class GA Criteria
- Exceedance Only
- All Values are in ug/L

| Compound | MW-4 (S) May-16 U | MW-4 (S) May-16 F |
|---|---|---|
| Cadmium | ***24.0*** | ***23.0*** |
| Sodium | ***26,000*** | ***26,000*** |

| Compound | MW-3 (S) May-16 U | MW-3 (S) May-16 F |
|---|---|---|
| Cadmium | ***7.9*** | ***5.8*** |
| Chromium | ***97.0*** | ND |
| Iron | ***700*** | ND |
| Sodium | ***26,000*** | ***25,000*** |

| MW-2 (S) May-16 | MW-2 (S) May-16 |
|---|---|
| U | F |
| No excedances | |

| Compound | MW-5 (S) May-16 U | MW-5 (S) May-16 F |
|---|---|---|
| Sodium | ***21,000*** | ***23,000*** |

| Compound | MW-6 (M) May-16 U | MW-6 (M) May-16 F |
|---|---|---|
| Iron | ***990*** | ND |

| Compound | MW-10 (S) May-16 U | MW-10 (S) May-16 F |
|---|---|---|
| Cadmium | ***53.0*** | ***57.0*** |
| Chromium | ***130*** | ***130*** |

| Compound | MW-16 (D) May-16 U | MW-16 (D) May-16 F |
|---|---|---|
| Iron | ***1,600*** | ND |
| Manganese | ***700*** | ***580*** |

| Compound | MW-12 (S) May-16 U | MW-12 (S) May-16 F |
|---|---|---|
| Cadmium | ***5.4*** | ND |
| Iron | ***980*** | ND |
| Sodium | ***30,000*** | ***32,000*** |
| Thallium | ***2.5*** | ND |

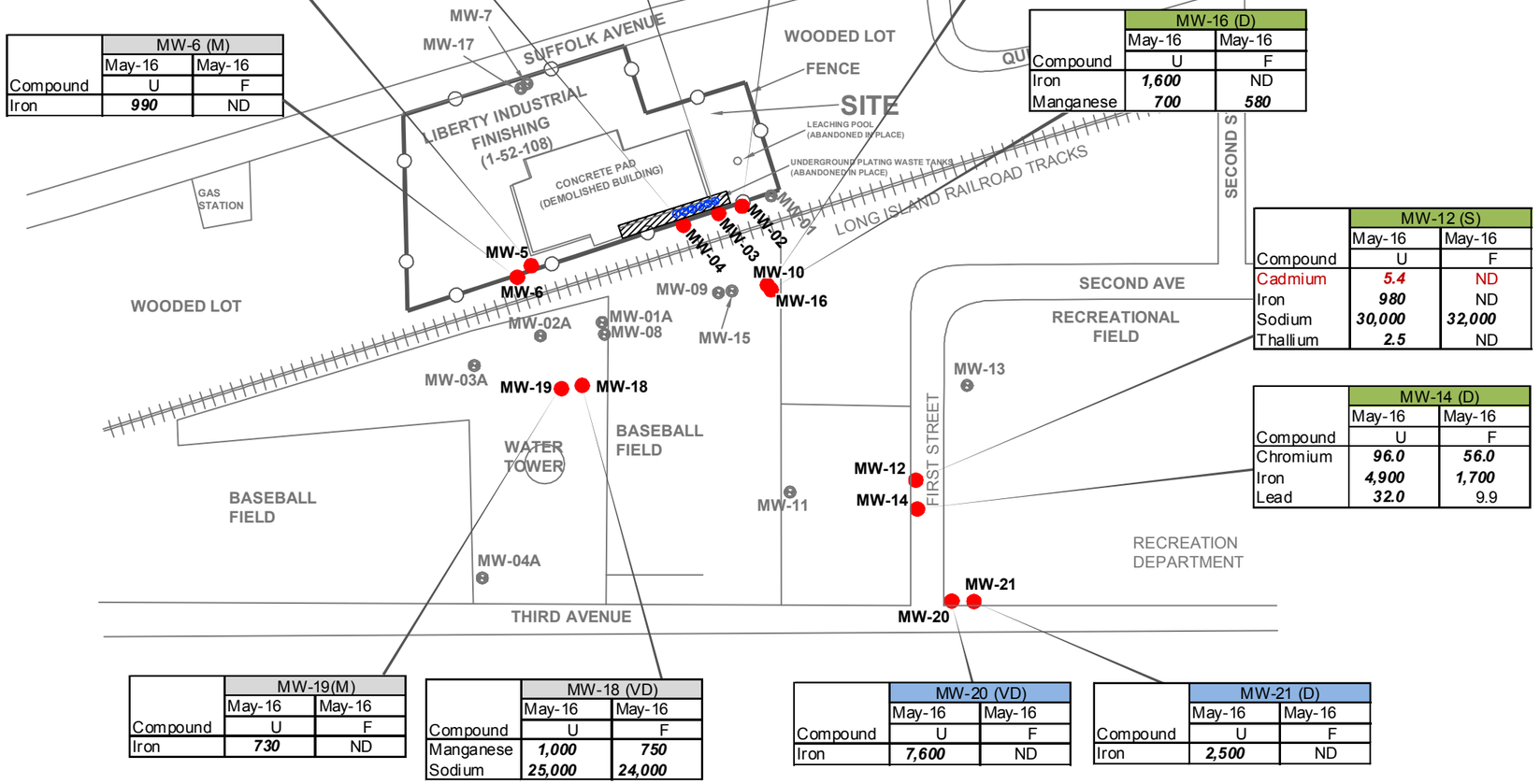
| Compound | MW-14 (D) May-16 U | MW-14 (D) May-16 F |
|---|---|---|
| Chromium | ***96.0*** | ***56.0*** |
| Iron | ***4,900*** | ***1,700*** |
| Lead | ***32.0*** | 9.9 |

| Compound | MW-19(M) May-16 U | MW-19(M) May-16 F |
|---|---|---|
| Iron | ***730*** | ND |

| Compound | MW-18 (VD) May-16 U | MW-18 (VD) May-16 F |
|---|---|---|
| Manganese | ***1,000*** | ***750*** |
| Sodium | ***25,000*** | ***24,000*** |

| Compound | MW-20 (VD) May-16 U | MW-20 (VD) May-16 F |
|---|---|---|
| Iron | ***7,600*** | ND |

| Compound | MW-21 (D) May-16 U | MW-21 (D) May-16 F |
|---|---|---|
| Iron | ***2,500*** | ND |




Graphic Scale

200 100 0 200

Prepared by : AECOM

SUBMITTED BY : PK

DRAWN BY : SC/jk

APPROVED BY : PK

MULTI SITE G - LIBERTY INDUSTRIAL SITE
SITE NO. 1-52-108

# SUMMARY OF TAL METALS IN GROUNDWATER MAY 2016

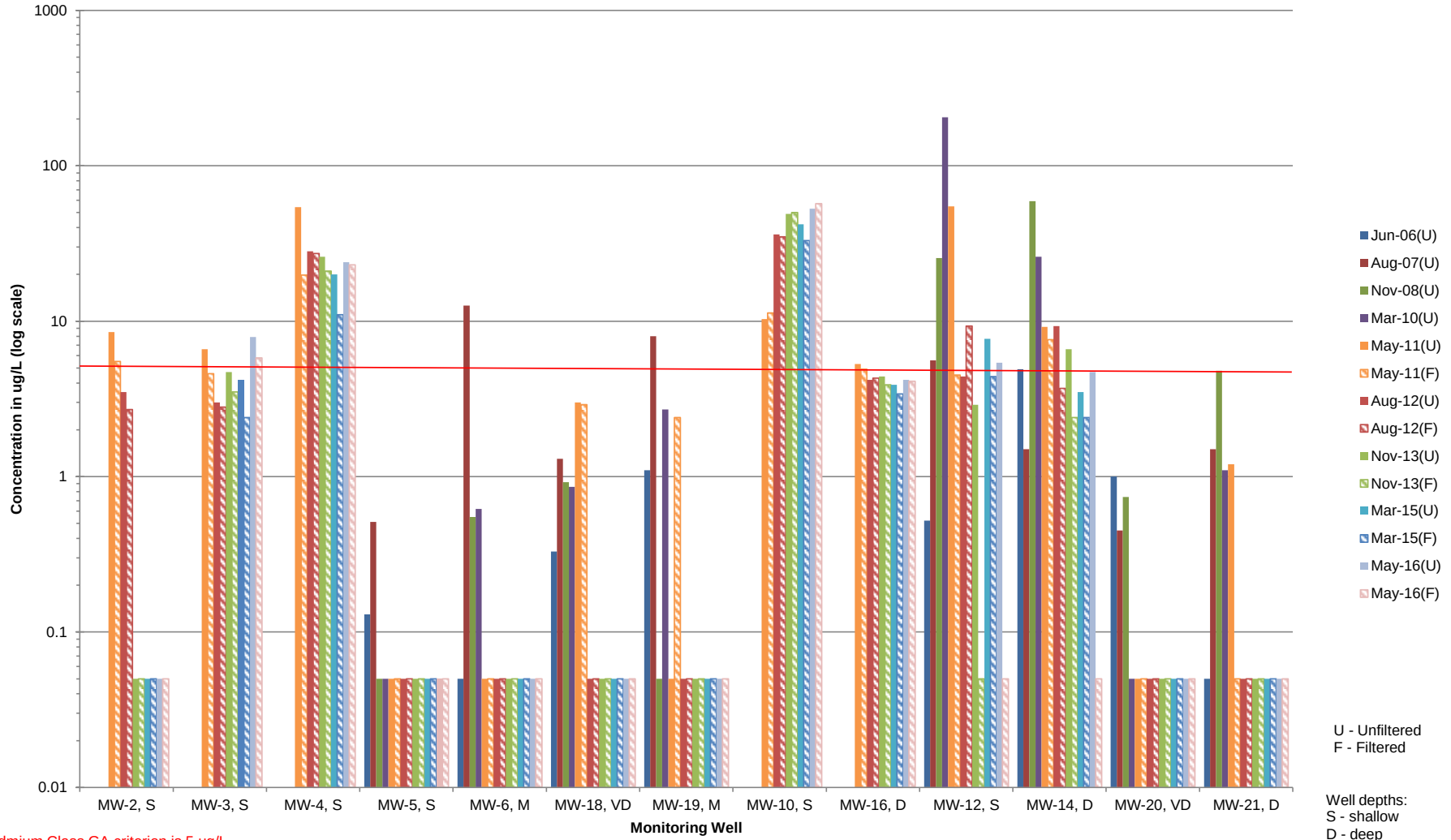
NYSDEC
625 Broadway, Albany NY, 12233

DATE : AUGUST 2016

SCALE : IN FEET, AS SHOWN

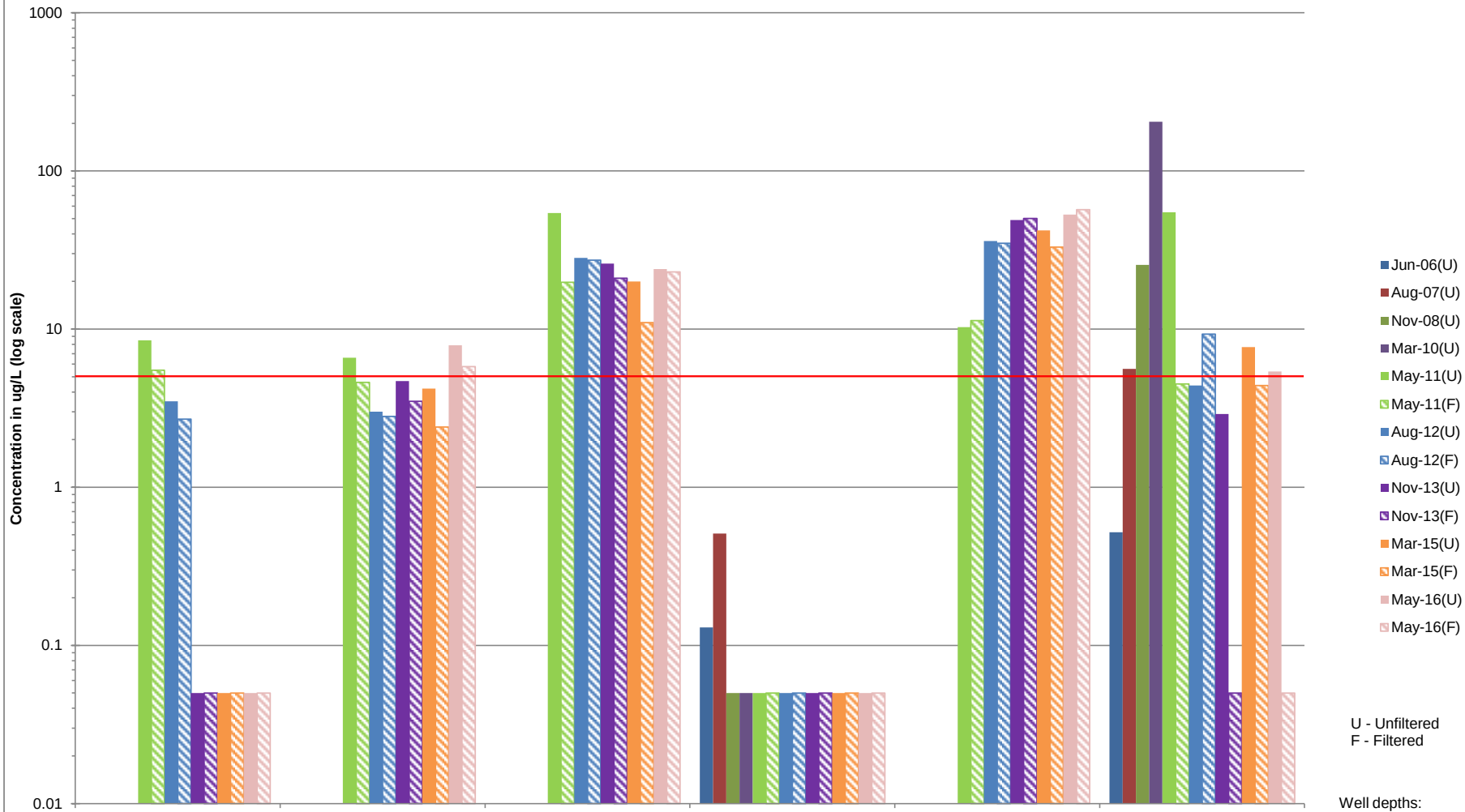
DRAWING NO. : 5

**FIGURE 6**
**CADMIUM CONCENTRATIONS IN SELECTED MONITORING WELLS**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**



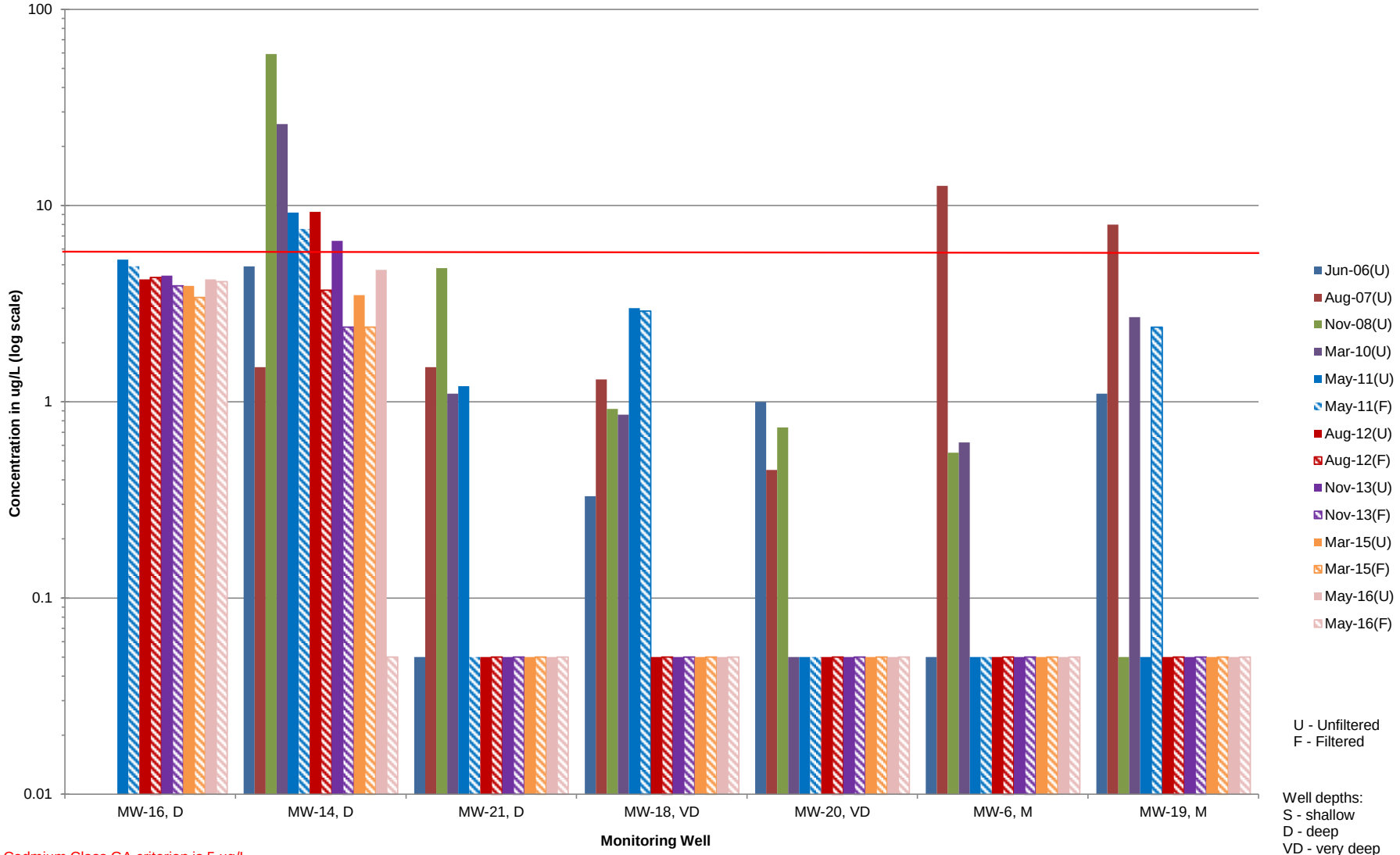

Cadmium Class GA criterion is 5 ug/L
ND values shown as 0.05 for plotting purposes

**FIGURE 6A**
**CADMIUM CONCENTATIONS IN SHALLOW MONITORING WELLS**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**

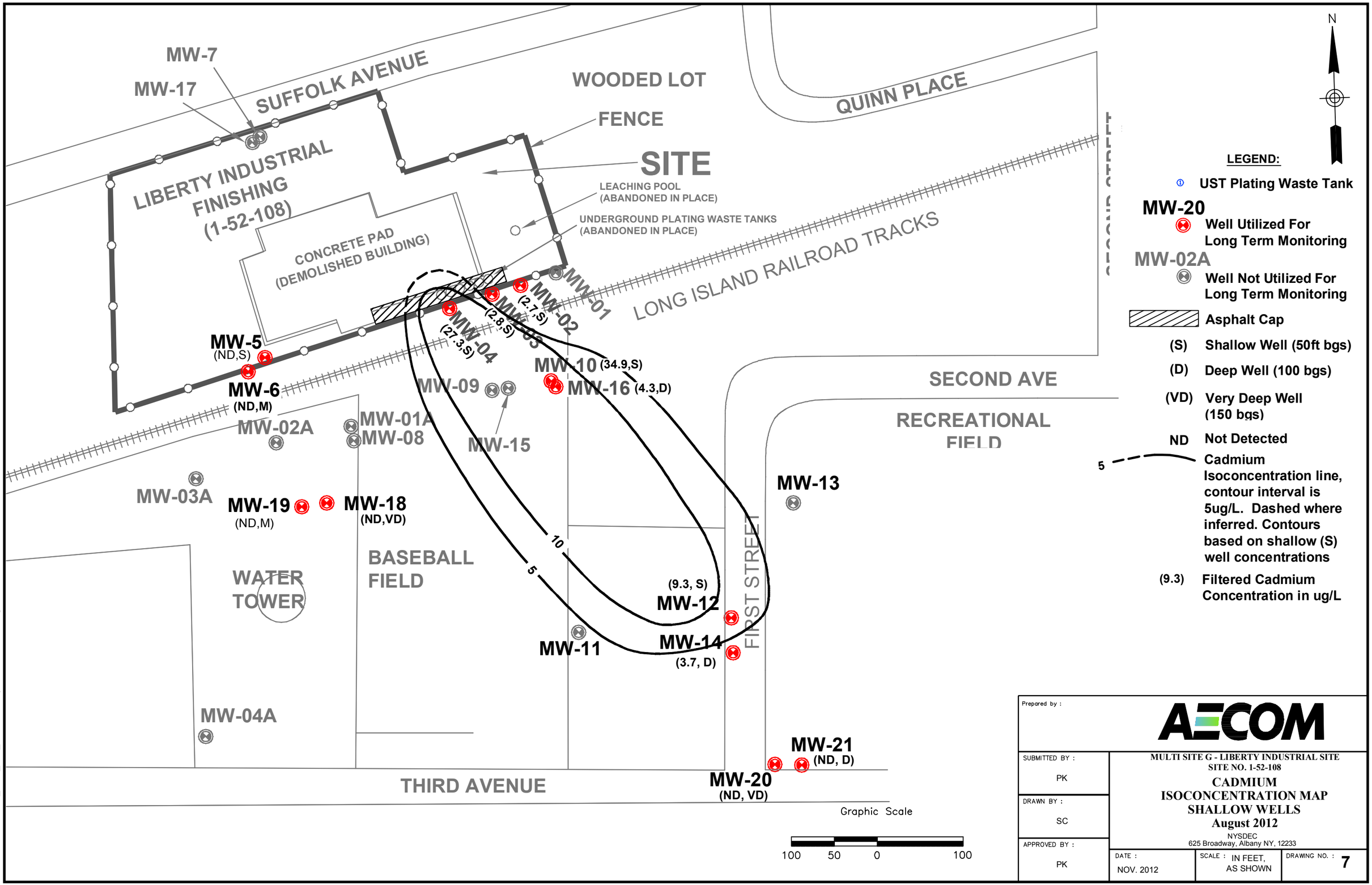



Cadmium Class GA criterion is 5 ug/L
ND values shown as 0.05 for plotting purposes

**FIGURE 6B**
**CADMIUM CONCENTATIONS IN DEEP, VERY DEEP & MAGOTHY MONITORING WELLS**
**LIBERTY INDUSTRIAL SITE (1-52-108)**




Cadmium Class GA criterion is 5 ug/L
ND values shown as 0.05 for plotting purposes




Prepared by : AECOM

| | |
|---|---|
| SUBMITTED BY : PK | MULTI SITE G - LIBERTY INDUSTRIAL SITE<br>SITE NO. 1-52-108<br>CADMIUM ISOCONCENTRATION MAP SHALLOW WELLS<br>August 2012<br>NYSDEC<br>625 Broadway, Albany NY, 12233 |
| DRAWN BY : SC | |
| APPROVED BY : PK | DATE : NOV. 2012 / SCALE : IN FEET, AS SHOWN / DRAWING NO. : 7 |

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MW-7
MW-17
SUFFOLK AVENUE
WOODED LOT
FENCE
QUINN PLACE
SITE
LIBERTY INDUSTRIAL FINISHING (1-52-108)
LEACHING POOL (ABANDONED IN PLACE)
CONCRETE PAD (DEMOLISHED BUILDING)
UNDERGROUND PLATING WASTE TANKS (ABANDONED IN PLACE)
MW-01
LONG ISLAND RAILROAD TRACKS
SECOND STREET
MW-02 (ND, S)
MW-03 (3.5, S)
MW-04 (21.0, S)
(ND, S) MW-5
MW-6 (ND, M)
MW-10 (50, S)
MW-16 (3.9, D)
MW-09
SECOND AVE
RECREATIONAL FIELD
MW-02A
MW-01A
MW-08
MW-15
10
5
MW-13
MW-03A
MW-19 (ND, M)
MW-18 (ND, VD)
BASEBALL FIELD
WATER TOWER
FIRST STREET
MW-12 (ND, S)
MW-14 (2.4, D)
MW-11
MW-04A
MW-21 (ND, D)
THIRD AVENUE
MW-20 (ND, VD)

Graphic Scale
100 50 0 100

N

**LEGEND:**

- UST Plating Waste Tank
- **MW-20** — Well Utilized For Long Term Monitoring
- **MW-02A** — Well Not Utilized For Long Term Monitoring
- Asphalt Cap
- (S) Shallow Well (50ft bgs)
- (D) Deep Well (100 bgs)
- (VD) Very Deep Well (150 bgs)
- (M) Magothy Aquifer Well (250 bgs)
- Cadmium Isoconcentration line, contour interval is 5ug/L. Dashed where inferred. Contours based on shallow (S) well concentrations
- (2.4) Filtered Cadmium Concentration in ug/L
- ND NOT DETECTED

Prepared by : AECOM

SUBMITTED BY : PK
DRAWN BY : SC
APPROVED BY : PK

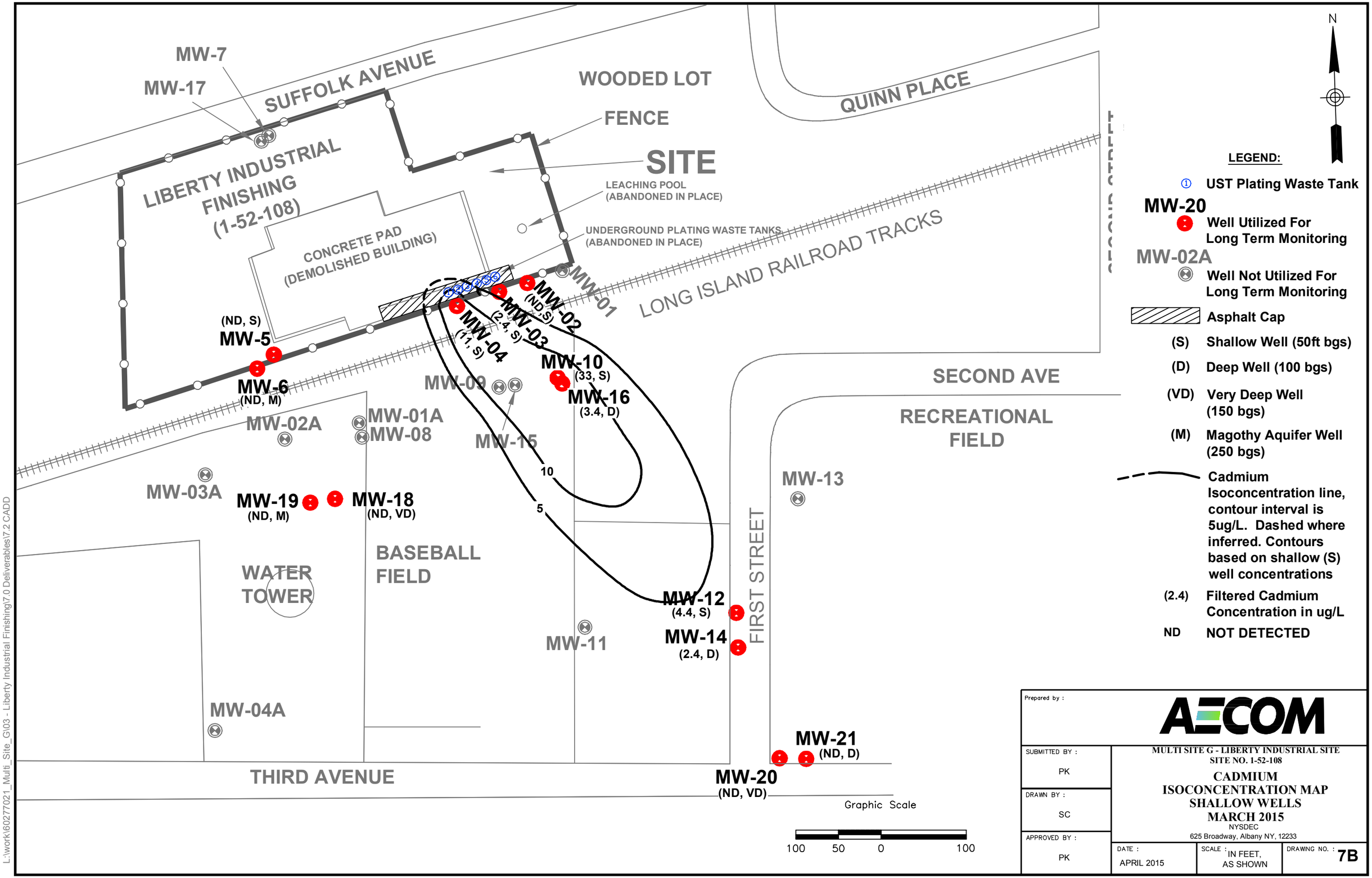
MULTI SITE G - LIBERTY INDUSTRIAL SITE
SITE NO. 1-52-108

**CADMIUM ISOCONCENTRATION MAP SHALLOW WELLS NOVEMBER 2013**

NYSDEC
625 Broadway, Albany NY, 12233

DATE : NOVEMBER 2013
SCALE : IN FEET, AS SHOWN
DRAWING NO. : 7A

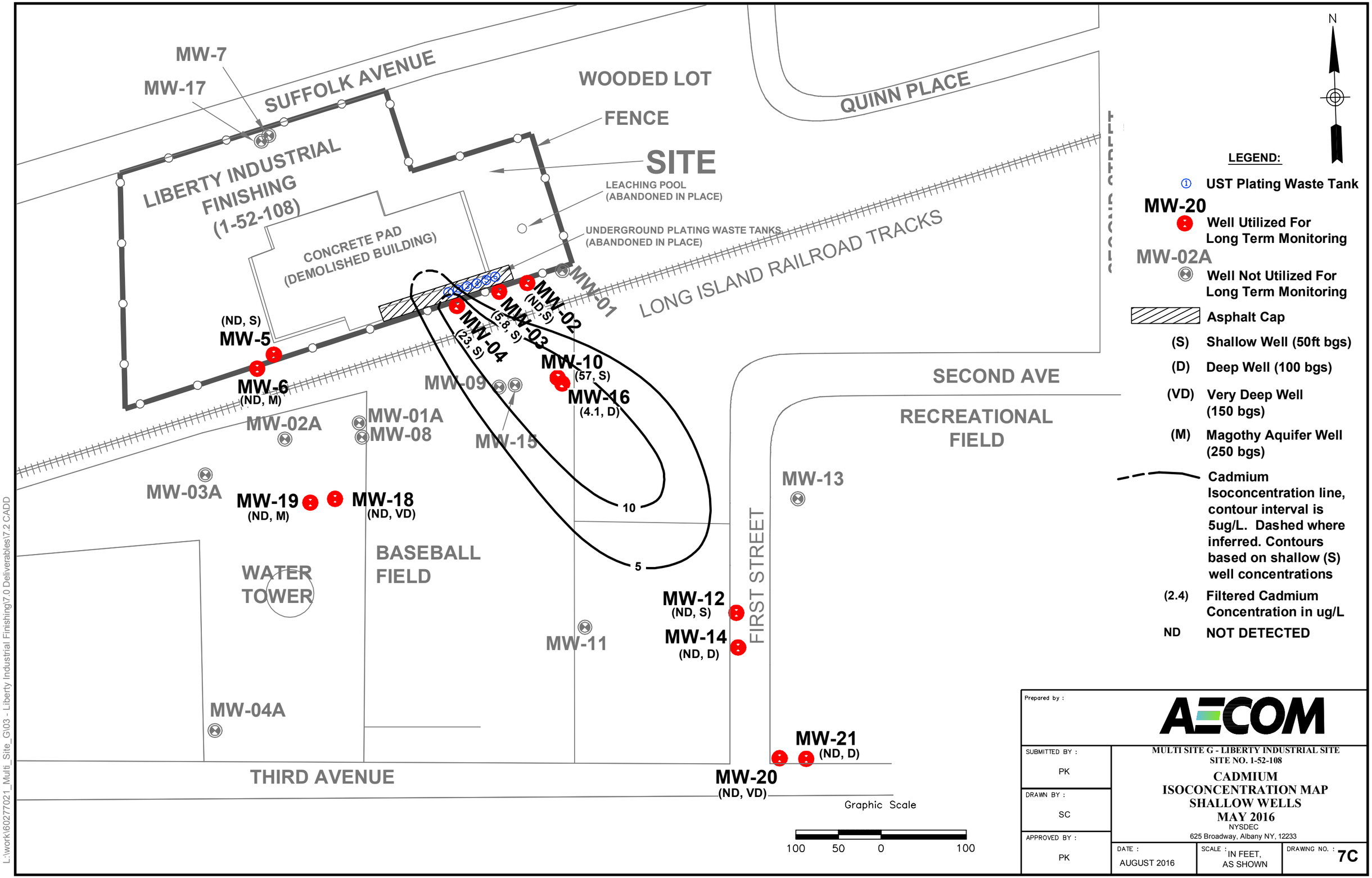
L:\work\60277021_Multi_Site_G\03 - Liberty Industrial Finishing\7.0 Deliverables\7.2 CADD




Prepared by : AECOM

| | |
|---|---|
| SUBMITTED BY : PK | MULTI SITE G - LIBERTY INDUSTRIAL SITE<br>SITE NO. 1-52-108<br>CADMIUM ISOCONCENTRATION MAP SHALLOW WELLS MARCH 2015<br>NYSDEC<br>625 Broadway, Albany NY, 12233 |
| DRAWN BY : SC | |
| APPROVED BY : PK | DATE : APRIL 2015 / SCALE : IN FEET, AS SHOWN / DRAWING NO. : 7B |

L:\work\60277021_Multi_Site_G\03 - Liberty Industrial Finishing\7.0 Deliverables\7.2 CADD

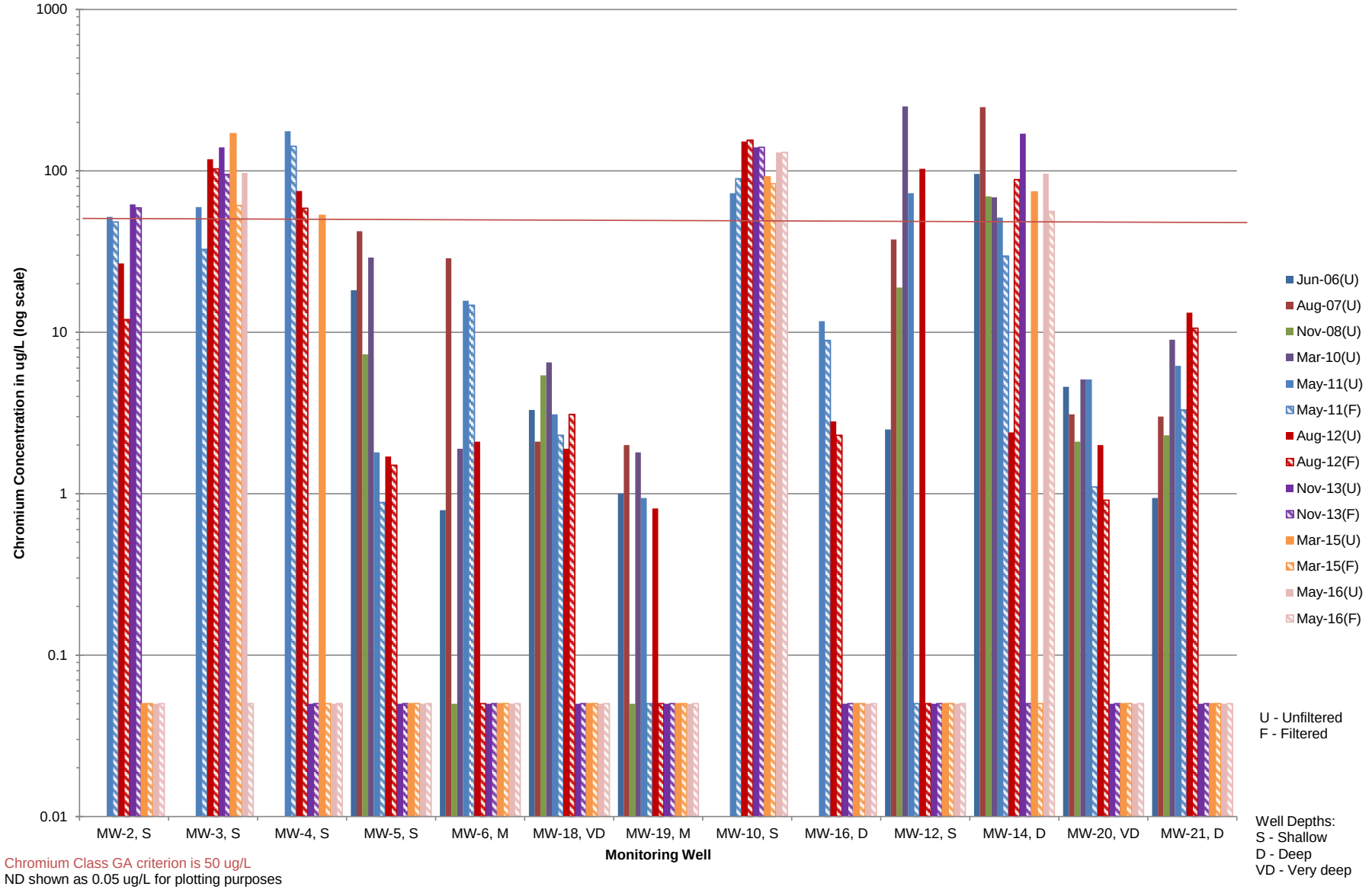



L:\work\60277021_Multi_Site_G\03 - Liberty Industrial Finishing\7.0 Deliverables\7.2 CADD

Prepared by : AECOM

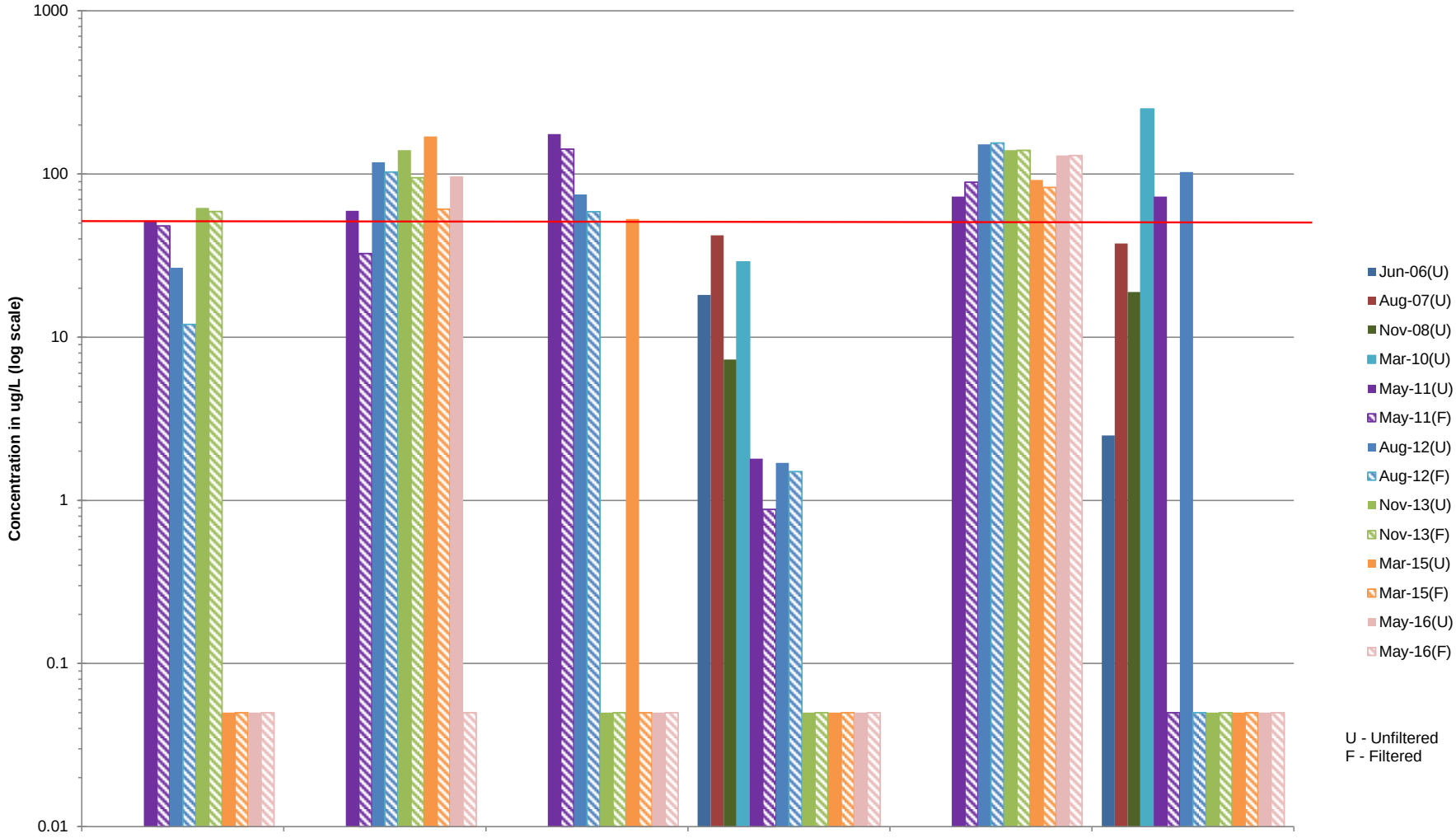
| | |
|---|---|
| SUBMITTED BY : PK | MULTI SITE G - LIBERTY INDUSTRIAL SITE<br>SITE NO. 1-52-108<br>CADMIUM ISOCONCENTRATION MAP SHALLOW WELLS MAY 2016<br>NYSDEC<br>625 Broadway, Albany NY, 12233 |
| DRAWN BY : SC | |
| APPROVED BY : PK | DATE : AUGUST 2016 / SCALE : IN FEET, AS SHOWN / DRAWING NO. : 7C |

**FIGURE 8**
**CHROMIUM CONCENTRATIONS IN SELECTED MONITORING WELLS**
**LIBERTY INDUSTRIAL FINISHING (1-52-108)**



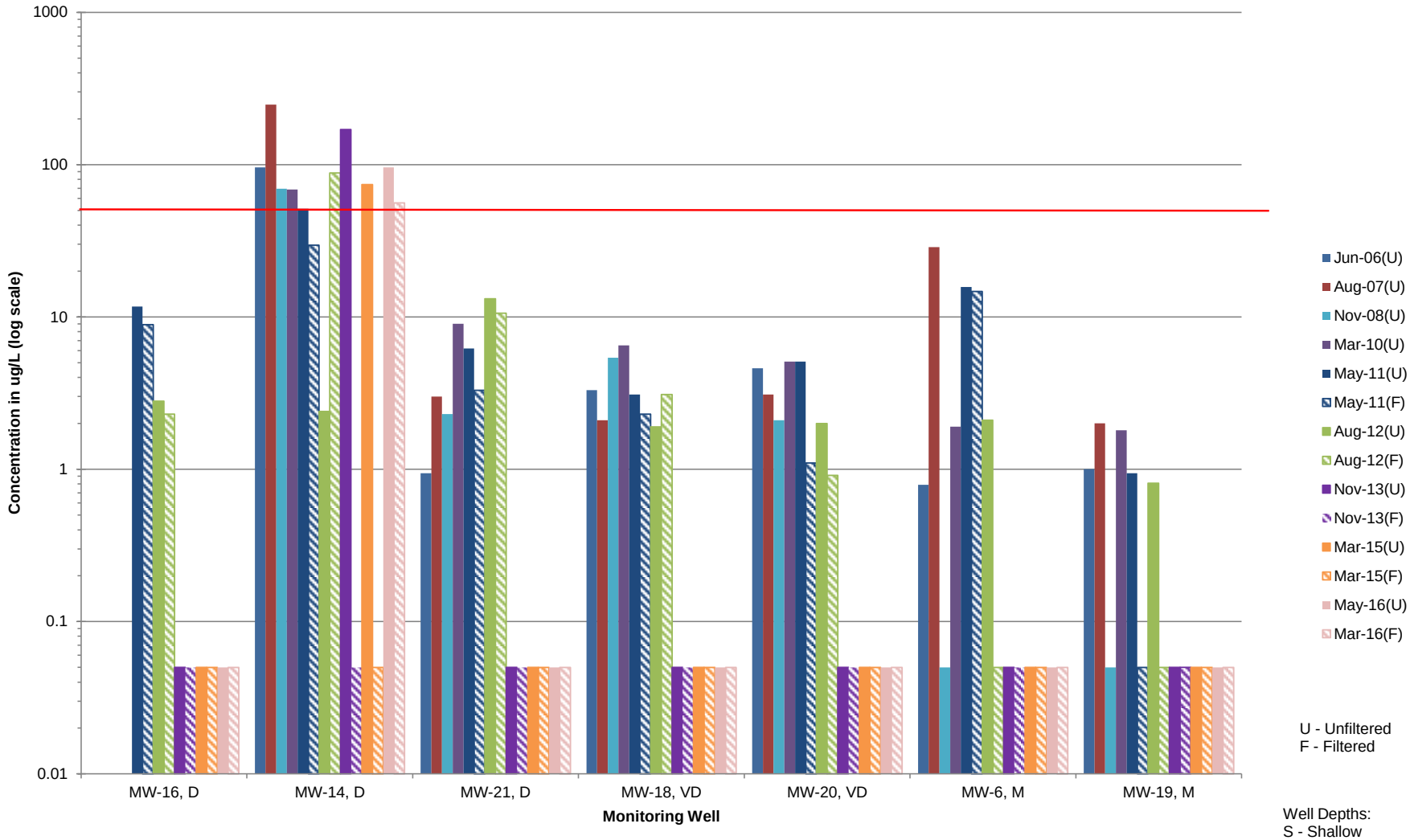

Chromium Class GA criterion is 50 ug/L
ND shown as 0.05 ug/L for plotting purposes

**FIGURE 8A**
**CHROMIUM CONCENTRATIONS IN SHALLOW MONITORING WELLS**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**

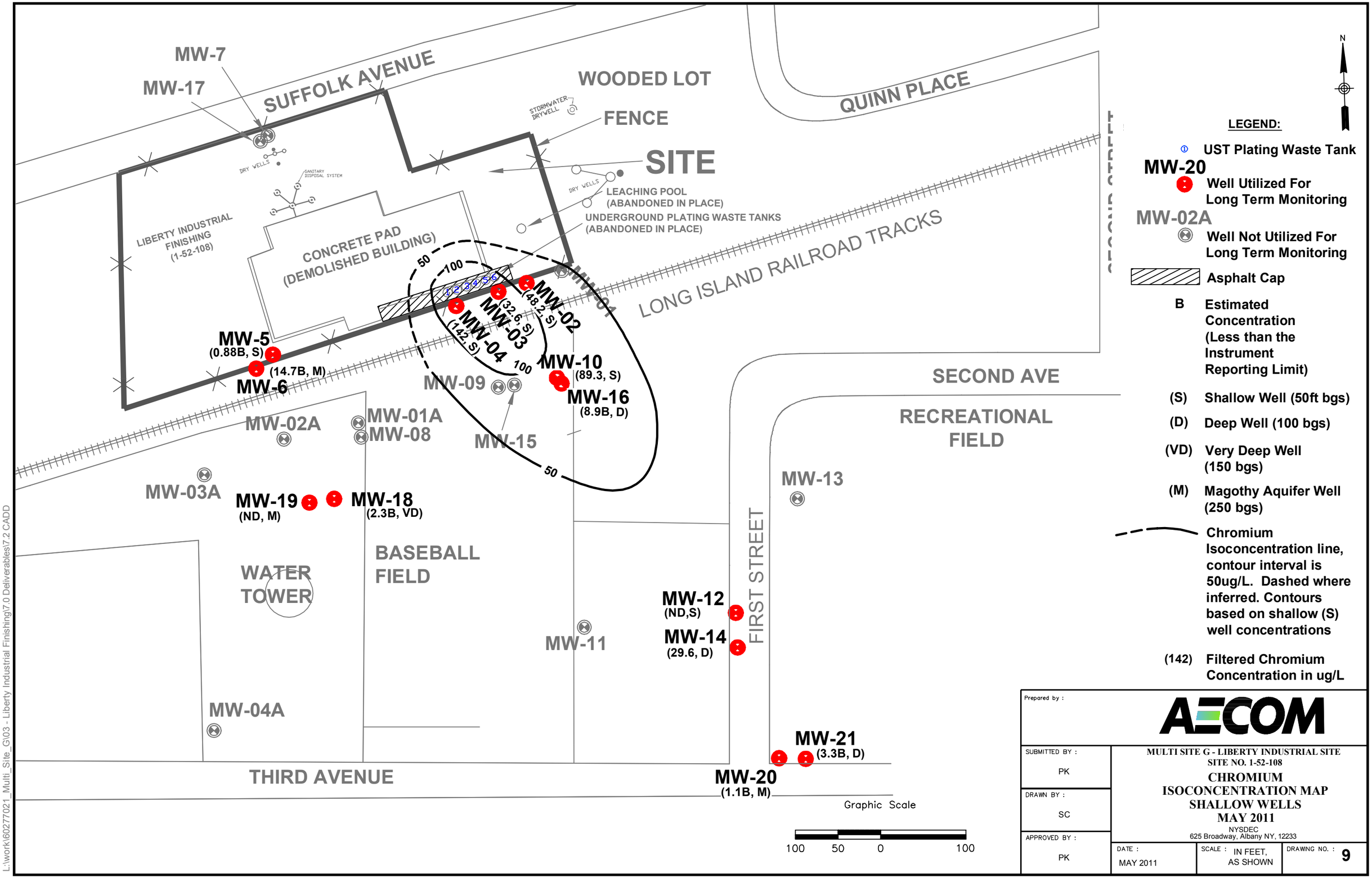



Chromium Class GA criterion is 50 ug/L
ND shown as 0.05 ug/L for plotting purposes

**FIGURE 8B**
**CHROMIUM CONCENTRATIONS IN DEEP, VERY DEEP, AND MAGOTHY MONITORING WELLS**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**




Chromium Class GA criterion is 50 ug/L
ND shown as 0.05 ug/L for plotting purposes



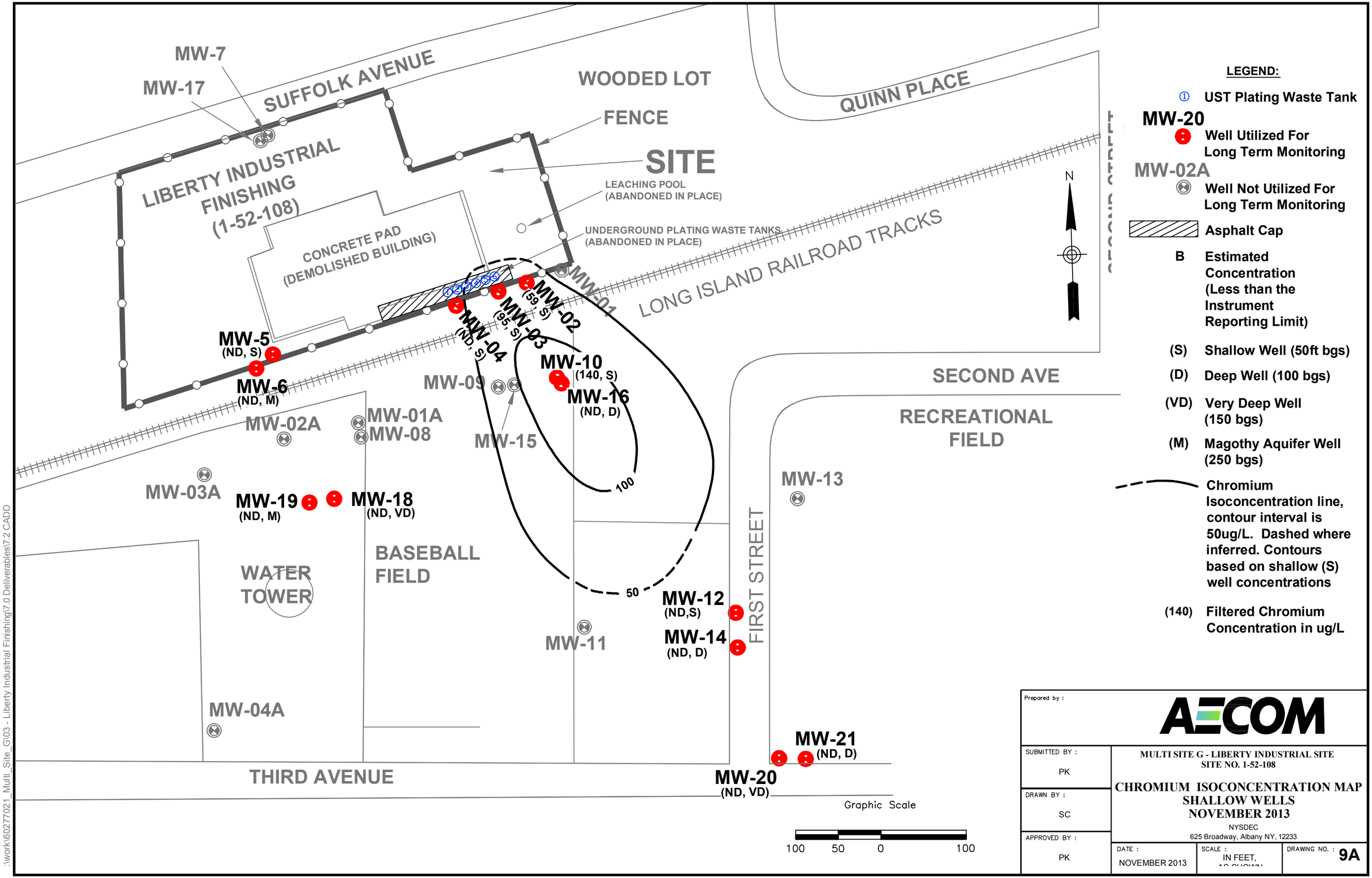

**LEGEND:**

- UST Plating Waste Tank
- **MW-20** — Well Utilized For Long Term Monitoring
- **MW-02A** — Well Not Utilized For Long Term Monitoring
- Asphalt Cap
- B — Estimated Concentration (Less than the Instrument Reporting Limit)
- (S) — Shallow Well (50ft bgs)
- (D) — Deep Well (100 bgs)
- (VD) — Very Deep Well (150 bgs)
- (M) — Magothy Aquifer Well (250 bgs)
- Chromium Isoconcentration line, contour interval is 50ug/L. Dashed where inferred. Contours based on shallow (S) well concentrations
- (142) — Filtered Chromium Concentration in ug/L

Prepared by : AECOM

| | |
|---|---|
| SUBMITTED BY : PK | MULTI SITE G - LIBERTY INDUSTRIAL SITE<br>SITE NO. 1-52-108<br>CHROMIUM ISOCONCENTRATION MAP<br>SHALLOW WELLS<br>MAY 2011<br>NYSDEC<br>625 Broadway, Albany NY, 12233 |
| DRAWN BY : SC | |
| APPROVED BY : PK | DATE : MAY 2011 / SCALE : IN FEET, AS SHOWN / DRAWING NO. : 9 |

L:\work\60277021_Multi_Site_G\03 - Liberty Industrial Finishing\7.0 Deliverables\7.2 CADD




**LEGEND:**

- ① UST Plating Waste Tank
- **MW-20** Well Utilized For Long Term Monitoring
- **MW-02A** Well Not Utilized For Long Term Monitoring
- Asphalt Cap
- B Estimated Concentration (Less than the Instrument Reporting Limit)
- (S) Shallow Well (50ft bgs)
- (D) Deep Well (100 bgs)
- (VD) Very Deep Well (150 bgs)
- (M) Magothy Aquifer Well (250 bgs)
- Chromium Isoconcentration line, contour interval is 50ug/L. Dashed where inferred. Contours based on shallow (S) well concentrations
- (140) Filtered Chromium Concentration in ug/L

Prepared by : AECOM

| | |
|---|---|
| SUBMITTED BY : PK | MULTI SITE G - LIBERTY INDUSTRIAL SITE<br>SITE NO. 1-52-108 |
| DRAWN BY : SC | CHROMIUM ISOCONCENTRATION MAP<br>SHALLOW WELLS<br>NOVEMBER 2013 |
| APPROVED BY : PK | NYSDEC<br>625 Broadway, Albany NY, 12233 |
| DATE : NOVEMBER 2013 | SCALE : IN FEET, AS SHOWN |
| DRAWING NO. : 9A | |

:\work\60277021_Multi_Site_G\03 - Liberty Industrial Finishing\7.0 Deliverables\7.2 CADD

MW-7
MW-17
SUFFOLK AVENUE
WOODED LOT
FENCE
SITE
LIBERTY INDUSTRIAL FINISHING (1-52-108)
LEACHING POOL (ABANDONED IN PLACE)
CONCRETE PAD (DEMOLISHED BUILDING)
UNDERGROUND PLATING WASTE TANKS (ABANDONED IN PLACE)
QUINN PLACE
LONG ISLAND RAILROAD TRACKS
MW-01
MW-02 (ND, S)
MW-03 (61, S)
MW-04 (ND, S)
MW-5 (ND, S)
MW-6 (ND, M)
MW-09
MW-10 (83, S)
MW-16 (ND, D)
MW-02A
MW-01A
MW-08
MW-15
SECOND AVE
RECREATIONAL FIELD
MW-03A
MW-19 (ND, M)
MW-18 (ND, VD)
50
BASEBALL FIELD
WATER TOWER
MW-13
FIRST STREET
MW-12 (ND,S)
MW-14 (ND, D)
MW-11
MW-04A
MW-21 (ND, D)
THIRD AVENUE
MW-20 (ND, VD)
N
Graphic Scale
100 50 0 100

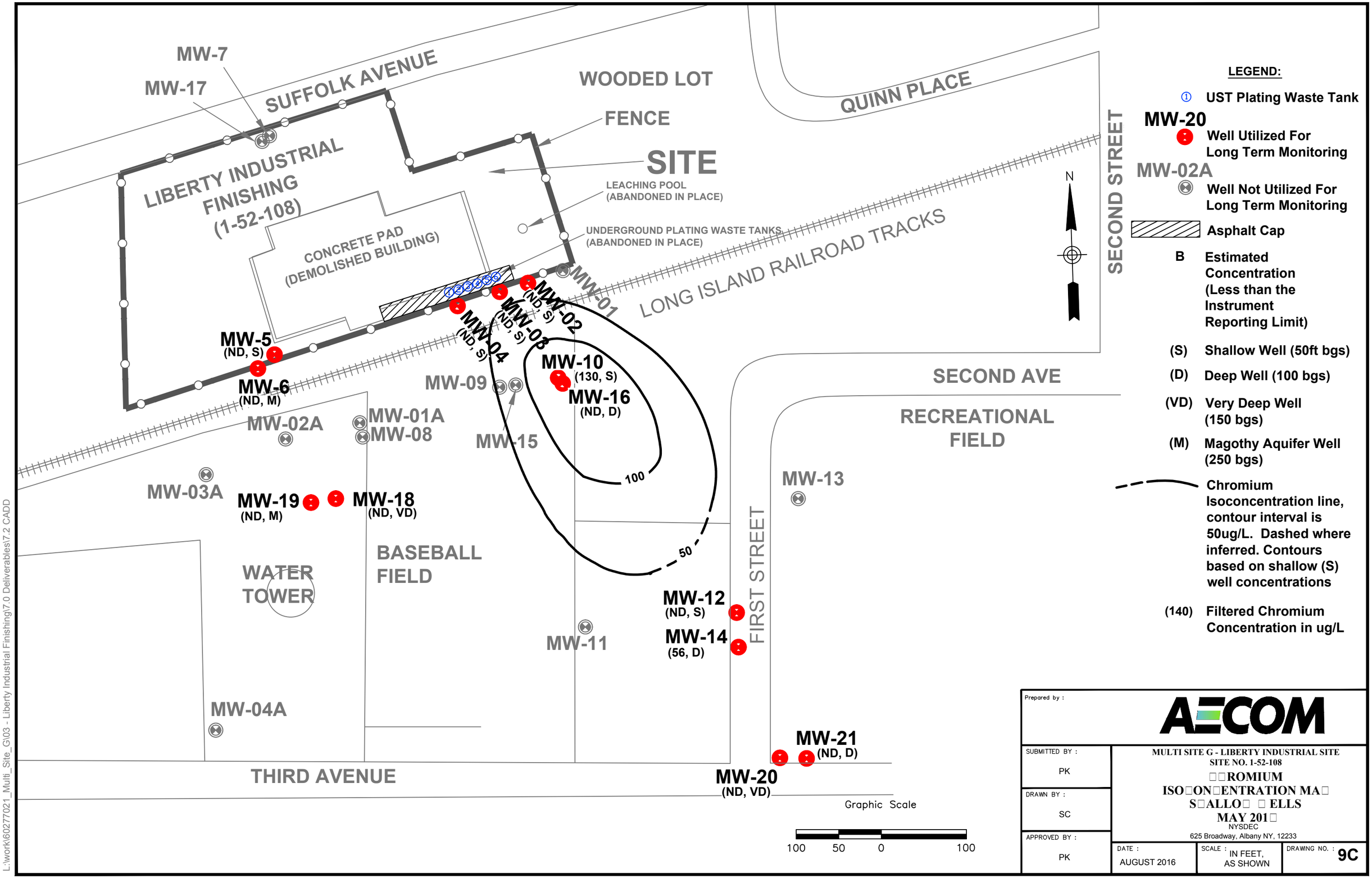
**LEGEND:**

- ① UST Plating Waste Tank
- **MW-20** Well Utilized For Long Term Monitoring
- **MW-02A** Well Not Utilized For Long Term Monitoring
- Asphalt Cap
- B Estimated Concentration (Less than the Instrument Reporting Limit)
- (S) Shallow Well (50ft bgs)
- (D) Deep Well (100 bgs)
- (VD) Very Deep Well (150 bgs)
- (M) Magothy Aquifer Well (250 bgs)
- Chromium Isoconcentration line, contour interval is 50ug/L. Dashed where inferred. Contours based on shallow (S) well concentrations
- (140) Filtered Chromium Concentration in ug/L

Prepared by : AECOM

| | |
|---|---|
| SUBMITTED BY : PK | MULTI SITE G - LIBERTY INDUSTRIAL SITE<br>SITE NO. 1-52-108<br>CHROMIUM ISOCONCENTRATION MAP<br>SHALLOW WELLS<br>MARCH 2015<br>NYSDEC<br>625 Broadway, Albany NY, 12233 |
| DRAWN BY : SC | |
| APPROVED BY : PK | DATE : APRIL 2015 / SCALE : IN FEET, AS SHOWN / DRAWING NO. : 9B |

:\work\60277021_Multi_Site_G\03 - Liberty Industrial Finishing\7.0 Deliverables\7.2 CADD




**LEGEND:**

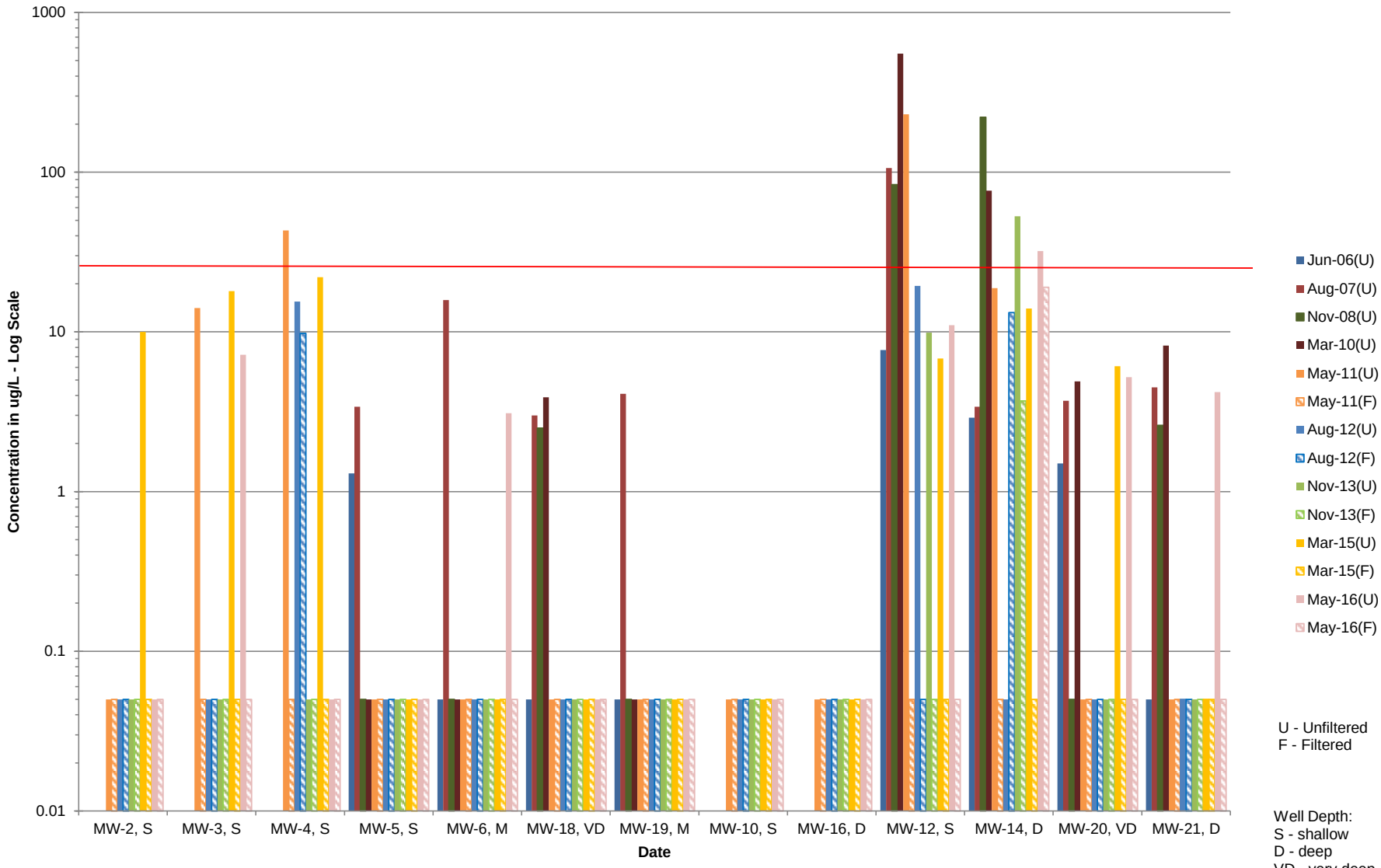
- ① UST Plating Waste Tank
- MW-20 — Well Utilized For Long Term Monitoring
- MW-02A — Well Not Utilized For Long Term Monitoring
- Asphalt Cap
- B — Estimated Concentration (Less than the Instrument Reporting Limit)
- (S) Shallow Well (50ft bgs)
- (D) Deep Well (100 bgs)
- (VD) Very Deep Well (150 bgs)
- (M) Magothy Aquifer Well (250 bgs)
- Chromium Isoconcentration line, contour interval is 50ug/L. Dashed where inferred. Contours based on shallow (S) well concentrations
- (140) Filtered Chromium Concentration in ug/L

Prepared by : AECOM

| | |
|---|---|
| SUBMITTED BY : PK | MULTI SITE G - LIBERTY INDUSTRIAL SITE<br>SITE NO. 1-52-108<br>□□ROMIUM<br>ISO□ON□ENTRATION MA□<br>S□ALLO□ □ ELLS<br>MAY 201□<br>NYSDEC<br>625 Broadway, Albany NY, 12233 |
| DRAWN BY : SC | |
| APPROVED BY : PK | DATE : AUGUST 2016 / SCALE : IN FEET, AS SHOWN / DRAWING NO. : 9C |

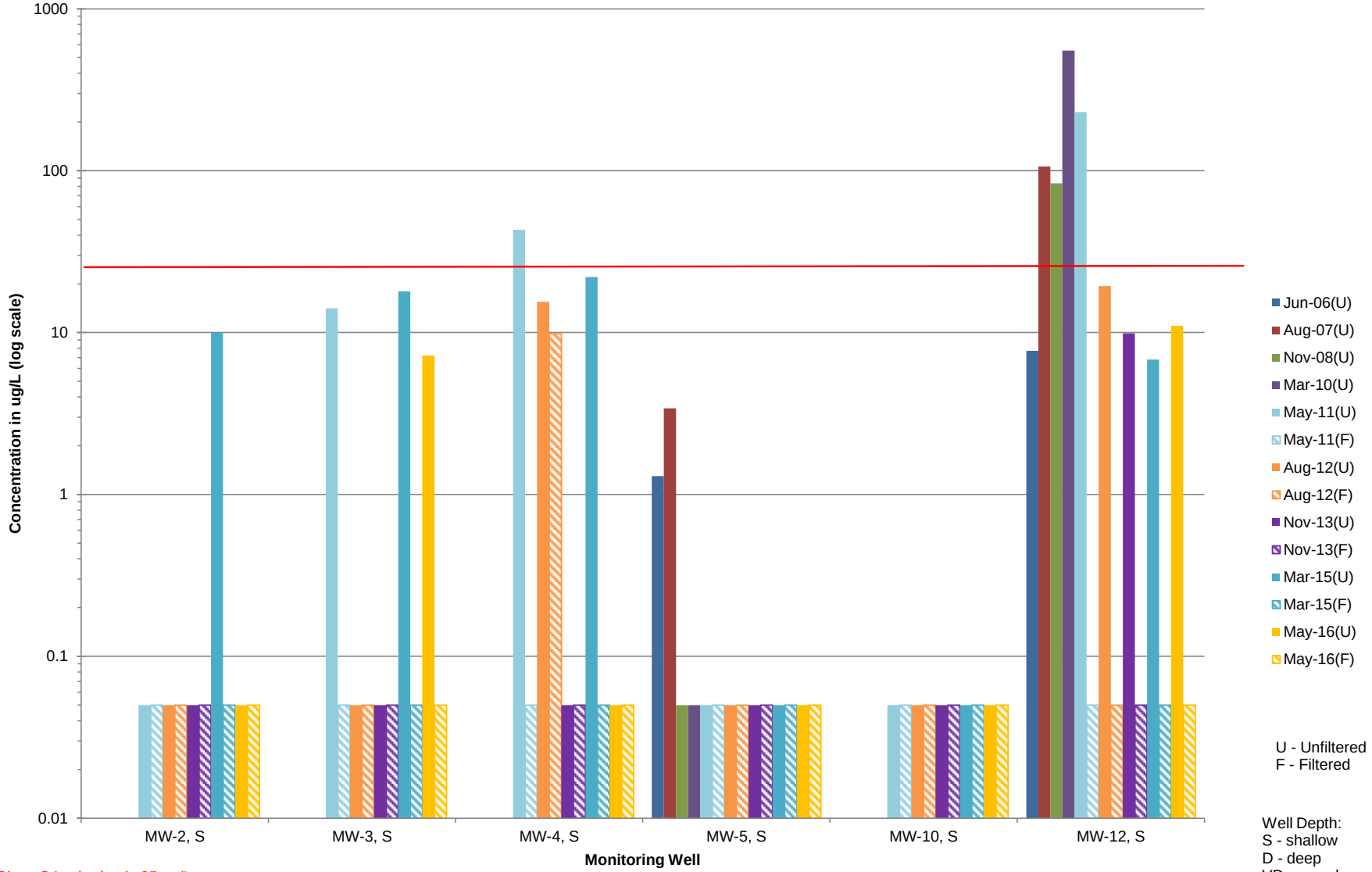
L:\work\60277021_Multi_Site_G\03 - Liberty Industrial Finishing\7.0 Deliverables\7.2 CADD

**FIGURE 10**
**LEAD CONCENTRATIONS IN SELECTED MONITORING WELLS**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**



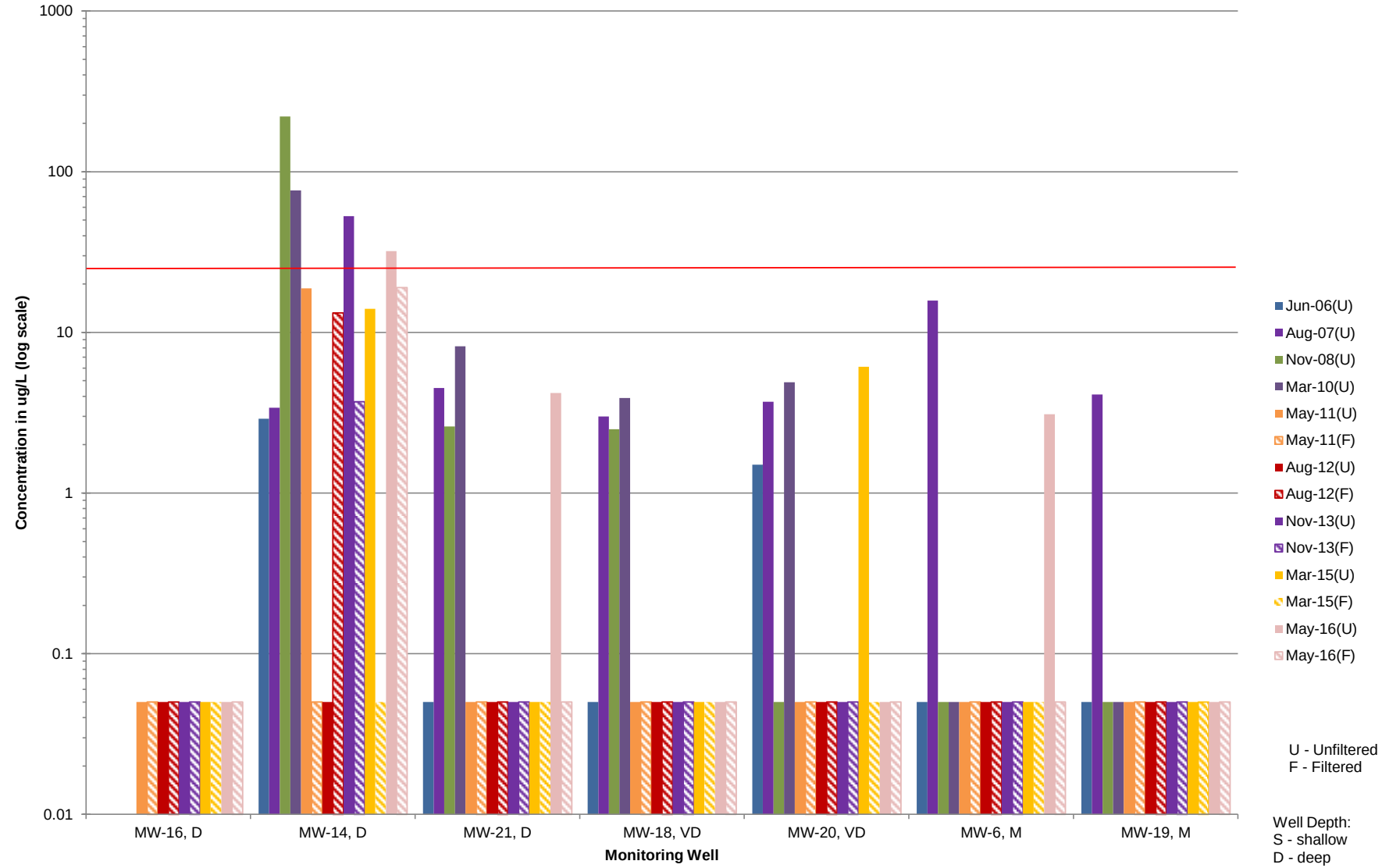

Class GA crirerion is 25 ug/L
ND values set to 0.05 ug/L for plotting purposes

**FIGURE 10A**
**LEAD CONCENTRATIONS IN SHALLOW MONITORING WELLS**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**



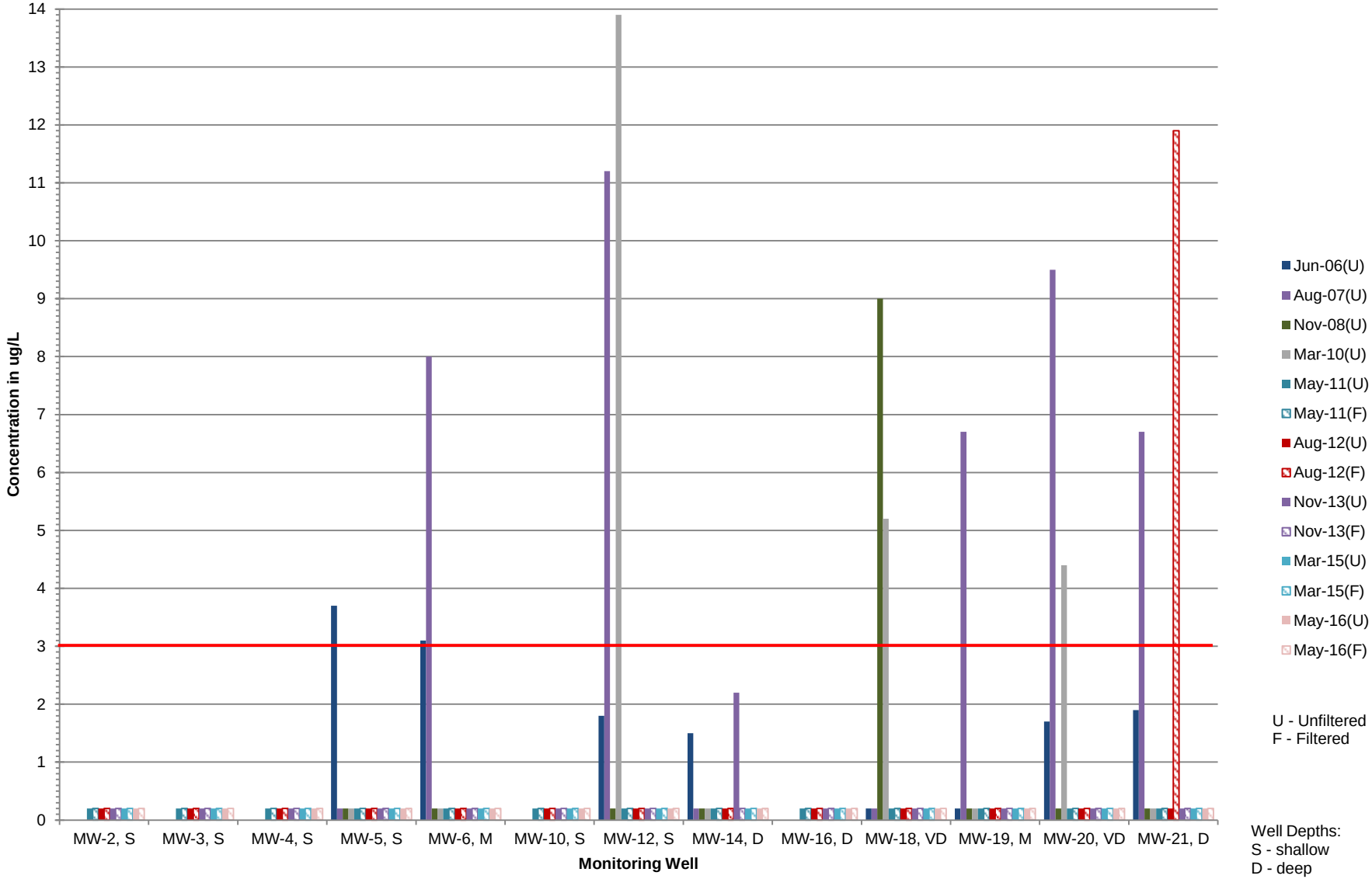

Class GA crirerion is 25 ug/L
ND values set to 0.05 ug/L for plotting purposes

**FIGURE 10B**
**LEAD CONCENTRATIONS IN DEEP, VERY DEEP AND MAGOTHY MONITORING WELLS**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**




Class GA crirerion is 25 ug/L
ND values set to 0.05 ug/L for plotting purposes

**FIGURE 11**
**ANTIMONY CONCENTRATIONS IN SELECTED MONITORING WELLS**
**LIBERTY INDUSTRIAL FINISHING SITE (1-52-108)**




Class GA criterion is 3 ug/L
ND set to 0.2 ug/L for plotting purposes

# Appendix A

# Monitoring Well Sampling Forms

AECOM

**WELL NO.** MW-2

| WELL SAMPLING FORM | PROJECT: Liberty Industrial Finishing | PROJECT No.: 602770271 | SHEET: 1 OF 1 |
|---|---|---|---|
| LOCATION: Brentwood, NY | | DATE WELL SAMPLED: 5/11/2016 | |
| CLIENT: NYSDEC | | NAME OF INSPECTOR: Celeste Foster and Rita Papagian | |

ONE WELL VOLUME : 5.7 gallons  WELL TD: 54.0 ft  PUMP INTAKE DEPTH: 50 ft

| Time | Depth to Water (ft) | Purge Rate (mL/min) | FIELD MEASUREMENTS | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | Temp. (°C) | Conduct. (µs/cm) | DO (mg/L) | pH | ORP | Turbidity (ntu) | |
| 8:45 | 45.30 | | | | | | | | Static water level |
| 8:55 | | | | | | | | | pump on |
| 9:00 | 45.50 | 250 | 12.93 | 0.228 | 7.63 | 5.79 | 327 | 45.9 | |
| 9:10 | 45.50 | 250 | 12.97 | 0.238 | 7.29 | 5.80 | 325 | 34.2 | |
| 9:20 | 45.50 | 250 | 12.99 | 0.238 | 7.25 | 5.87 | 325 | 21.5 | |
| 9:30 | 45.50 | 250 | 13.09 | 0.240 | 7.28 | 5.93 | 323 | 22.4 | |
| 9:40 | 45.50 | 250 | 13.09 | 0.241 | 7.29 | 5.90 | 323 | 21.9 | |
| | | | | | | | | | |
| 9:45 | | | | | | | | | Unfiltered Sample LMW-2 Collected |
| 9:47 | | | | | | | | | Filtered Sample LMW-2F Collected |
| | | | | | | | | | |
| | | | | | | | | | 1/4" (OD) poly and 1/4" (OD) poly |
| | | | | | | | | | bonded tubing put back into the well. |

Pump Type: QED Bladder Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

**WELL NO.** MW-3

| WELL SAMPLING FORM | PROJECT: Liberty Industrial Finishing | PROJECT No.: 602770271 | SHEET: 1 OF 1 |
|---|---|---|---|
| LOCATION: Brentwood, NY | | DATE WELL SAMPLED: 5/11/2016 | |
| CLIENT: NYSDEC | | NAME OF INSPECTOR: Celeste Foster and Rita Papagian | |

ONE WELL VOLUME : 5.7 gallons  WELL TD: 54.0 ft  PUMP INTAKE DEPTH: 50 ft

| Time | Depth to Water (ft) | Purge Rate (mL/min) | FIELD MEASUREMENTS | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | Temp. (°C) | Conduct. (µs/cm) | DO (mg/L) | pH | ORP | Turbidity (ntu) | |
| 8:45 | 45.31 | | | | | | | | Static water level |
| 8:55 | | | | | | | | | pump on |
| 9:05 | 45.31 | 250 | 14.88 | 0.166 | 6.61 | 5.64 | 127 | 138 | |
| 9:15 | 45.31 | 250 | 15.32 | 0.163 | 6.44 | 5.76 | 132 | 98.0 | |
| 9:30 | 45.31 | 250 | 15.78 | 0.164 | 6.43 | 5.82 | 139 | 63.6 | |
| 9:35 | 45.31 | 250 | 16.10 | 0.166 | 6.43 | 5.86 | 143 | 51.3 | |
| 9:40 | 45.31 | 250 | 16.14 | 0.166 | 6.33 | 5.87 | 144 | 49.2 | |
| 9:45 | 45.31 | 250 | 16.17 | 0.166 | 6.35 | 5.87 | 143 | 48.6 | |
| | | | | | | | | | |
| 9:50 | | | | | | | | | Unfiltered Sample LMW-3 Collected |
| 9:53 | | | | | | | | | Filtered Sample LMW-3F Collected |
| | | | | | | | | | |
| | | | | | | | | | no tubing originally in well, |
| | | | | | | | | | new 1/4" (OD) poly and 1/4" (OD) poly |
| | | | | | | | | | bonded tubing put into the well. |

Pump Type: QED Bladder Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

**WELL NO.** MW-4

| WELL SAMPLING FORM | PROJECT: Liberty Industrial Finishing | PROJECT No.: 602770271 | SHEET: 1 OF 1 SHEETS |
|---|---|---|---|
| LOCATION: Brentwood, NY | | DATE WELL SAMPLED: 5/11/2016 | |
| CLIENT: NYSDEC | | NAME OF INSPECTOR: Celeste Foster and Rita Papagian | |

ONE WELL VOLUME : 5.1 gallons  WELL TD: 53.4 ft  PUMP INTAKE DEPTH: 49.5 ft

| Time | Depth to Water (ft) | Purge Rate (mL/min) | FIELD MEASUREMENTS | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | Temp. (°C) | Conduct. (µs/cm) | DO (mg/L) | pH | ORP | Turbidity (ntu) | |
| 10:20 | 45.65 | | | | | | | | Static water level |
| 10:25 | | | | | | | | | pump on |
| 10:35 | 46.1 | 250 | 14.41 | 0.182 | 0.31 | 6.35 | 295 | 94.1 | |
| 10:45 | 46.1 | 250 | 14.17 | 0.217 | 1.81 | 6.40 | 291 | 43.1 | |
| 10:55 | 46.1 | 250 | 14.03 | 0.259 | 3.61 | 6.33 | 290 | 26.6 | |
| 11:05 | 46.1 | 250 | 14.04 | 0.272 | 4.87 | 6.13 | 299 | 17.9 | |
| 11:15 | 46.1 | 250 | 13.99 | 0.279 | 4.72 | 6.13 | 299 | 13.8 | |
| 11:25 | 46.1 | 250 | 14.05 | 0.279 | 4.79 | 6.15 | 297 | 13.2 | |
| 11:35 | 46.1 | 250 | 14.05 | 0.281 | 4.82 | 6.15 | 294 | 12.9 | |
| | | | | | | | | | |
| 11:40 | | | | | | | | | Unfiltered Sample LMW-4 Collected |
| 11:43 | | | | | | | | | Filtered Sample LMW-4F Collected |
| | | | | | | | | | |
| | | | | | | | | | 1/4" (OD) poly and 1/4" (OD) poly |
| | | | | | | | | | bonded tubing put back into the well. |

Pump Type: QED Bladder Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

**WELL NO.** MW-5

| WELL SAMPLING FORM | PROJECT: Liberty Industrial Finishing | PROJECT No.: 602770271 | SHEET: 1 OF 1 |
|---|---|---|---|
| LOCATION: Brentwood, NY | | DATE WELL SAMPLED: 5/10/2016 | |
| CLIENT: NYSDEC | | NAME OF INSPECTOR: Celeste Foster and Rita Papagian | |

ONE WELL VOLUME : 1.7 gallons  WELL TD: 50 ft  PUMP INTAKE DEPTH: 49 ft

| Time | Depth to Water (ft) | Purge Rate (mL/min) | FIELD MEASUREMENTS | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | Temp. (°C) | Conduct. (µs/cm) | DO (mg/L) | pH | ORP | Turbidity (ntu) | |
| 8:25 | 47.35 | | | | | | | | Static water level |
| 8:25 | | | | | | | | | pump on |
| 8:30 | 48.47 | 250 | 12.36 | 0.236 | 6.91 | 5.52 | 309 | 40.2 | |
| 8:40 | 48.40 | 250 | 12.38 | 0.234 | 6.50 | 5.83 | 291 | 4.5 | |
| 8:50 | 48.40 | 250 | 12.38 | 0.230 | 6.57 | 5.82 | 291 | 4.4 | |
| 9:00 | 48.44 | 250 | 12.40 | 0.226 | 6.45 | 5.83 | 292 | 3.2 | |
| 9:10 | 48.40 | 250 | 12.41 | 0.224 | 6.43 | 5.78 | 295 | 3.0 | |
| 9:20 | 48.41 | 250 | 12.42 | 0.223 | 6.47 | 5.79 | 295 | 3.2 | |
| | | | | | | | | | |
| 9:25 | | | | | | | | | Unfiltered Sample LMW-5 Collected |
| 9:28 | | | | | | | | | Filtered Sample LMW-5F Collected |
| | | | | | | | | | |
| | | | | | | | | | 1/4" (OD) poly and 1/4" (OD) poly |
| | | | | | | | | | bonded tubing put back into the well. |

Pump Type: QED Bladder Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

**WELL NO.** MW-6

| **WELL SAMPLING FORM** | PROJECT: Liberty Industrial Finishing | PROJECT No.: 602770271 | SHEET: 1 OF 1 |
|---|---|---|---|
| LOCATION: Brentwood, NY | | DATE WELL SAMPLED: 5/10/2016 | |
| CLIENT: NYSDEC | | NAME OF INSPECTOR: Celeste Foster and Rita Papagian | |

ONE WELL VOLUME : 142 gallons  WELL TD: 265 ft  PUMP INTAKE DEPTH: 260 ft

| Time | Depth to Water (ft) | Purge Rate (mL/min) | FIELD MEASUREMENTS | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | Temp. (°C) | Conduct. (µs/cm) | DO (mg/L) | pH | ORP | Turbidity (ntu) | |
| 8:30 | 47.15 | | | | | | | | Static water level |
| 8:40 | | | | | | | | | pump on |
| 8:45 | 47.31 | 250 | 12.72 | 0.066 | 20.68 | 5.06 | 278 | 133 | |
| 8:55 | 47.32 | 250 | 12.77 | 0.063 | 2.96 | 4.89 | 194 | >1000 | |
| 9:05 | 47.32 | 250 | 12.90 | 0.063 | 2.36 | 4.70 | 219 | 424 | |
| 9:15 | 47.32 | 250 | 13.03 | 0.062 | 2.41 | 4.75 | 215 | 334 | |
| 9:25 | 47.32 | 250 | 13.09 | 0.061 | 2.47 | 4.80 | 217 | 217 | |
| 9:35 | 47.32 | 250 | 13.10 | 0.061 | 2.54 | 4.77 | 218 | 192 | |
| 9:40 | 47.32 | 250 | 13.09 | 0.061 | 2.55 | 4.80 | 220 | 185 | |
| 9:45 | 47.32 | 250 | 13.10 | 0.061 | 2.51 | 4.79 | 219 | 182 | |
| | | | | | | | | | |
| 9:50 | | | | | | | | | Unfiltered Sample LMW-6 Collected |
| 9:53 | | | | | | | | | Filtered Sample LMW-6F Collected |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | Tubing would not fit back into the well, |
| | | | | | | | | | bagged for later us. |
| | | | | | | | | | |
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Pump Type: ST1102 Bladder Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

**WELL NO.** MW-10

| WELL SAMPLING FORM | PROJECT: Liberty Industrial Finishing | PROJECT No.: 602770271 | SHEET: 1 OF 1 |
|---|---|---|---|
| LOCATION: Brentwood, NY | | DATE WELL SAMPLED: 5/9/2016 | |
| CLIENT: NYSDEC | | NAME OF INSPECTOR: Celeste Foster and Rita Papagian | |

ONE WELL VOLUME : 3.6 gallons  WELL TD: 50 ft  PUMP INTAKE DEPTH: 45 ft

| Time | Depth to Water (ft) | Purge Rate (mL/min) | FIELD MEASUREMENTS | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | Temp. (°C) | Conduct. (µs/cm) | DO (mg/L) | pH | ORP | Turbidity (ntu) | |
| 15:15 | 44.50 | | | | | | | | Static water level |
| 15:30 | | | | | | | | | pump on |
| 15:35 | 45.30 | 250 | 14.83 | 0.211 | 5.75 | 5.56 | 240 | 16.5 | |
| 15:45 | 45.30 | 250 | 13.67 | 0.211 | 6.25 | 5.71 | 243 | 1.6 | |
| 15:55 | 45.70 | 250 | 13.37 | 0.208 | 6.57 | 5.95 | 239 | 0.3 | |
| 16:05 | 45.50 | 250 | 13.26 | 0.206 | 6.61 | 6.07 | 238 | 0.7 | |
| 16:15 | 45.50 | 250 | 13.25 | 0.205 | 6.65 | 6.11 | 239 | 0.0 | |
| | | | | | | | | | |
| 16:20 | | | | | | | | | Unfiltered Sample LMW-10 Collected |
| 16:23 | | | | | | | | | Filtered Sample LMW-10F Collected |
| | | | | | | | | | |
| | | | | | | | | | 1/4" (OD) poly and 1/4" (OD) poly |
| | | | | | | | | | bonded tubing put back into the well. |

Pump Type: QED Bladder Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

**WELL NO.** MW-12

| WELL SAMPLING FORM | PROJECT: Liberty Industrial Finishing | PROJECT No.: 602770271 | SHEET: 1 OF 1 |
|---|---|---|---|
| LOCATION: Brentwood, NY | | DATE WELL SAMPLED: 5/9/2016 | |
| CLIENT: NYSDEC | | NAME OF INSPECTOR: Celeste Foster and Rita Papagian | |

ONE WELL VOLUME : 0.89 gallons  WELL TD: 49.3 ft  PUMP INTAKE DEPTH: 44.3 ft

| Time | Depth to Water (ft) | Purge Rate (mL/min) | FIELD MEASUREMENTS | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | Temp. (°C) | Conduct. (µs/cm) | DO (mg/L) | pH | ORP | Turbidity (ntu) | |
| 12:10 | 43.82 | | | | | | | | Static water level |
| 12:20 | 45.02 | 350 | 16.63 | 0.213 | 5.87 | 5.96 | 56 | 645 | pump on |
| 12:40 | 45.02 | 350 | 16.62 | 0.204 | 5.53 | 5.54 | 72 | 422 | |
| 12:50 | 45.03 | 350 | 16.62 | 0.186 | 5.51 | 5.29 | 126 | 187 | |
| 13:00 | 45.03 | 350 | 16.51 | 0.184 | 7.42 | 5.32 | 144 | 171 | |
| 13:10 | 45.03 | 350 | 16.50 | 0.183 | 7.22 | 5.32 | 160 | 150 | |
| 13:20 | 45.02 | 350 | 16.49 | 0.183 | 7.70 | 5.36 | 169 | 137 | |
| 13:30 | 45.03 | 350 | 16.64 | 0.182 | 8.00 | 5.40 | 174 | 65.2 | |
| 13:40 | 45.03 | 350 | 16.65 | 0.182 | 7.98 | 5.41 | 178 | 62.7 | |
| 13:50 | 45.03 | 350 | 16.69 | 0.181 | 7.93 | 5.45 | 182 | 62.1 | |
| | | | | | | | | | |
| 13:55 | | | | | | | Unfiltered Sample LMW-12 Collected + MS/MSD | | |
| 14:10 | | | | | | | Duplicate Unfiltered Sample LMW-62 Collected | | |
| 13:58 | | | | | | | Filtered Sample LMW-12F Collected + MS/MSD | | |
| 14:13 | | | | | | | Duplicate Filtered Sample LMW-62F Collected | | |
| | | | | | | | | | |
| | | | | | | | | | 1/4" (OD) poly and 1/4" (OD) poly |
| | | | | | | | | | bonded tubing put back into the well. |

Pump Type: QED Bladder Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

**WELL NO.** MW-14

| **WELL SAMPLING FORM** | PROJECT: Liberty Industrial Finishing | PROJECT No.: 602770271 | SHEET: 1 OF 1 |
|---|---|---|---|
| LOCATION: Brentwood, NY | | DATE WELL SAMPLED: 5/9/2016 | |
| CLIENT: NYSDEC | | NAME OF INSPECTOR: Celeste Foster and Rita Papagian | |

ONE WELL VOLUME : 9.09 gallons  WELL TD: 100 ft  PUMP INTAKE DEPTH: 95 ft

| Time | Depth to Water (ft) | Purge Rate (mL/min) | FIELD MEASUREMENTS | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | Temp. (°C) | Conduct. (µs/cm) | DO (mg/L) | pH | ORP | Turbidity (ntu) | |
| 12:15 | 44.21 | | | | | | | | Static water level |
| 12:30 | 43.85 | 250 | 21.45 | 0.158 | 1.71 | 5.87 | 86 | >1000 | pump on |
| 12:40 | 43.95 | 250 | 19.59 | 0.145 | 6.12 | 5.69 | 128 | 800 | |
| 12:50 | 43.90 | 250 | 19.35 | 0.142 | 7.28 | 5.75 | 150 | 695 | |
| 13:00 | 43.90 | 250 | 19.06 | 0.139 | 8.02 | 5.85 | 156 | 520 | |
| 13:10 | 43.90 | 250 | 18.88 | 0.139 | 8.36 | 6.01 | 155 | 436 | cut tubing bc of hole where it was bent |
| 13:20 | 43.90 | 250 | 18.26 | 0.135 | 9.68 | 5.80 | 183 | 534 | |
| 13:30 | 43.90 | 250 | 15.47 | 0.139 | 10.29 | 5.80 | 186 | >800 | |
| 13:40 | 43.90 | 250 | 15.11 | 0.138 | 10.69 | 5.74 | 196 | 370 | |
| 13:45 | 43.90 | 250 | 15.07 | 0.138 | 10.73 | 5.77 | 196 | 344 | |
| 13:50 | 43.90 | 250 | 15.06 | 0.138 | 10.72 | 5.72 | 200 | 343 | |
| | | | | | | | | | |
| 14:00 | | | | | | | | | Unfiltered Sample LMW-14 Collected |
| 14:01 | | | | | | | | | Filtered Sample LMW-14F Collected |
| | | | | | | | | | |
| | | | | | | | | | 1/4" (OD) poly and 1/4" (OD) poly |
| | | | | | | | | | bonded tubing put back into the well. |
| | | | | | | | | | tubing should be replaced next time |
| | | | | | | | | | tied off for now |
| | | | | | | | | | |
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| | | | | | | | | | |

Pump Type: QED Bladder Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

**WELL NO.** MW-16

| **WELL SAMPLING FORM** | PROJECT: Liberty Industrial Finishing | PROJECT No.: 602770271 | SHEET: 1 OF 1 |
|---|---|---|---|
| LOCATION: Brentwood, NY | | DATE WELL SAMPLED: 5/9/2016 | |
| CLIENT: NYSDEC | | NAME OF INSPECTOR: Celeste Foster and Rita Papagian | |

ONE WELL VOLUME : 8.88 gallons  WELL TD: 99.2 ft  PUMP INTAKE DEPTH: 95 ft

| Time | Depth to Water (ft) | Purge Rate (mL/min) | FIELD MEASUREMENTS | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | Temp. (°C) | Conduct. (µs/cm) | DO (mg/L) | pH | ORP | Turbidity (ntu) | |
| 15:20 | 44.74 | | | | | | | | Static water level |
| 15:25 | 44.74 | | | | | | | | pump on |
| 15:35 | 44.74 | 250 | 20.73 | 0.079 | 9.75 | 5.31 | 230 | 56.8 | |
| 15:45 | 44.74 | 250 | 16.77 | 0.080 | 7.19 | 4.35 | 286 | 625 | |
| 15:55 | 44.74 | 250 | 14.62 | 0.083 | 6.78 | 4.09 | 313 | 248 | |
| 16:00 | 44.74 | 250 | 14.36 | 0.084 | 6.70 | 4.07 | 320 | 167 | |
| 16:05 | 44.74 | 250 | 14.28 | 0.085 | 6.71 | 4.05 | 325 | 133 | |
| 16:10 | 44.74 | 250 | 14.22 | 0.086 | 6.72 | 4.01 | 328 | 105 | |
| 16:20 | 44.74 | 250 | 14.24 | 0.089 | 6.83 | 4.04 | 333 | 48.6 | |
| 16:30 | 44.74 | 250 | 14.21 | 0.090 | 6.82 | 4.02 | 333 | 36.7 | |
| 16:35 | 44.74 | 250 | 14.30 | 0.089 | 6.84 | 4.03 | 334 | 36.1 | |
| 16:40 | 44.74 | 250 | 14.32 | 0.089 | 6.83 | 4.03 | 334 | 35.8 | |
| | | | | | | | | | |
| 16:45 | | | | | | | | | Unfiltered Sample LMW-16 Collected |
| 16:47 | | | | | | | | | Filtered Sample LMW-16F Collected |
| | | | | | | | | | |
| | | | | | | | | | 1/4" (OD) poly and 1/4" (OD) poly |
| | | | | | | | | | bonded tubing put back into the well. |

Pump Type: QED Bladder Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

**WELL NO.** MW-18

| WELL SAMPLING FORM | PROJECT: Liberty Industrial Finishing | PROJECT No.: 602770271 | SHEET: 1 OF 1 |
|---|---|---|---|
| LOCATION: Brentwood, NY | | DATE WELL SAMPLED: 5/10/2016 | |
| CLIENT: NYSDEC | | NAME OF INSPECTOR: Celeste Foster and Rita Papagian | |

ONE WELL VOLUME : 16.71 gallons  WELL TD: 150 ft  PUMP INTAKE DEPTH: 145 ft

| Time | Depth to Water (ft) | Purge Rate (mL/min) | FIELD MEASUREMENTS | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | Temp. (°C) | Conduct. (µs/cm) | DO (mg/L) | pH | ORP | Turbidity (ntu) | |
| 11:25 | 47.50 | | | | | | | | Static water level |
| 11:30 | | | | | | | | | pump on |
| 11:40 | | | 19.31 | 0.215 | 6.52 | 5.97 | 319 | 71.9 | |
| 11:50 | | | 19.08 | 0.215 | 6.71 | 5.98 | 317 | 62.2 | |
| 12:05 | 48.93 | 250 | 14.72 | 0.221 | 7.66 | 5.98 | 302 | 22.5 | |
| 12:15 | 48.90 | 250 | 14.40 | 0.220 | 7.43 | 6.07 | 298 | 23.0 | |
| 12:25 | 48.91 | 250 | 14.31 | 0.266 | 7.30 | 5.68 | 310 | 3.5 | |
| 12:35 | 48.90 | 250 | 14.30 | 0.267 | 7.25 | 5.68 | 310 | 4.0 | |
| 12:40 | 48.91 | 250 | 14.31 | 0.274 | 7.11 | 5.59 | 315 | 3.0 | |
| | | | | | | | | | |
| 12:45 | | | | | | | | | Unfiltered Sample LMW-18 Collected |
| 12:48 | | | | | | | | | Filtered Sample LMW-18F Collected |
| | | | | | | | | | |
| | | | | | | | | | 1/4" (OD) poly and 1/4" (OD) poly |
| | | | | | | | | | bonded tubing put back into the well. |

Pump Type: QED Bladder Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

**WELL NO.** MW-19

| WELL SAMPLING FORM | PROJECT: Liberty Industrial Finishing | PROJECT No.: 602770271 | SHEET: 1 OF 1 |
|---|---|---|---|
| LOCATION: Brentwood, NY | | DATE WELL SAMPLED: 5/10/2016 | |
| CLIENT: NYSDEC | | NAME OF INSPECTOR: Celeste Foster and Rita Papagian | |

ONE WELL VOLUME : 142.6 gallons  WELL TD: 265 ft  PUMP INTAKE DEPTH: 260 ft

| Time | Depth to Water (ft) | Purge Rate (mL/min) | FIELD MEASUREMENTS | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | Temp. (°C) | Conduct. (µs/cm) | DO (mg/L) | pH | ORP | Turbidity (ntu) | |
| 12:00 | 46.61 | | | | | | | | Static water level |
| 12:10 | | | | | | | | | pump on * |
| 12:20 | 46.64 | 250 | 22.07 | 0.093 | 6.77 | 6.00 | 251 | 42.9 | |
| 12:30 | 46.63 | 250 | 24.00 | 0.099 | 3.64 | 5.08 | 254 | 180 | |
| 12:40 | 46.63 | 250 | 25.15 | 0.107 | 3.39 | 5.05 | 254 | 238 | |
| 12:50 | 46.63 | 250 | 26.35 | 0.110 | 3.31 | 5.13 | 252 | 215 | |
| 12:55 | 46.63 | 250 | 26.19 | 0.111 | 3.28 | 5.11 | 254 | 175 | |
| 13:00 | 46.63 | 250 | 26.10 | 0.111 | 3.36 | 5.17 | 253 | 156 | |
| 13:05 | 46.63 | 250 | 25.07 | 0.112 | 3.36 | 5.19 | 255 | 154 | |
| 13:10 | 46.63 | 250 | 25.06 | 0.112 | 3.38 | 5.19 | 254 | 152 | |
| | | | | | | | | | Unfiltered Sample LMW-19 Collected |
| 13:15 | | | | | | | | | Filtered Sample LMW-19F Collected |
| 13:17 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | Tubing would not fit back into the well, |
| | | | | | | | | | bagged for later us. |

Pump Type: ST1102

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

**WELL NO.** MW-20

| WELL SAMPLING FORM | PROJECT: Liberty Industrial Finishing | PROJECT No.: 602770271 | SHEET: 1 OF 1 |
|---|---|---|---|
| LOCATION: Brentwood, NY | | DATE WELL SAMPLED: 5/10/2016 | |
| CLIENT: NYSDEC | | NAME OF INSPECTOR: Celeste Foster and Rita Papagian | |

ONE WELL VOLUME : 17.38 gallons  WELL TD: 150 ft  PUMP INTAKE DEPTH: 145 ft

| Time | Depth to Water (ft) | Purge Rate (mL/min) | FIELD MEASUREMENTS | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | Temp. (°C) | Conduct. (µs/cm) | DO (mg/L) | pH | ORP | Turbidity (ntu) | |
| 15:00 | 43.35 | | | | | | | | Static water level |
| 15:10 | | | | | | | | | pump on |
| 15:20 | 43.80 | 250 | 19.45 | 0.128 | 7.60 | 5.52 | 235 | 30.0 | |
| 15:30 | 43.80 | 250 | 18.11 | 0.132 | 10.09 | 5.10 | 261 | 29.6 | |
| 15:40 | 43.80 | 250 | 17.73 | 0.131 | 8.61 | 5.40 | 264 | 29.2 | |
| 15:50 | 43.80 | 250 | 15.69 | 0.137 | 9.38 | 5.08 | 273 | 34.2 | |
| 16:00 | 43.80 | 250 | 16.44 | 0.135 | 8.02 | 5.11 | 279 | 21.6 | |
| 16:10 | 43.80 | 250 | 16.33 | 0.135 | 7.88 | 5.11 | 280 | 19.8 | |
| 16:20 | 43.80 | 250 | 16.31 | 0.135 | 7.87 | 5.11 | 280 | 19.6 | |
| | | | | | | | | | |
| 16:25 | | | | | | | | | Unfiltered Sample LMW-20 Collected |
| 16:27 | | | | | | | | | Filtered Sample LMW-20F Collected |
| | | | | | | | | | |
| | | | | | | | | | 1/4" (OD) poly and 1/4" (OD) poly |
| | | | | | | | | | bonded tubing put back into the well. |

Pump Type: QED Bladder Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

AECOM

**WELL NO.** MW-21

| WELL SAMPLING FORM | PROJECT: Liberty Industrial Finishing | PROJECT No.: 602770271 | SHEET: 1 OF 1 |
|---|---|---|---|
| LOCATION: Brentwood, NY | | DATE WELL SAMPLED: 5/10/2016 | |
| CLIENT: NYSDEC | | NAME OF INSPECTOR: Celeste Foster and Rita Papagian | |

ONE WELL VOLUME : 10.95 gallons  WELL TD: 110.5 ft  PUMP INTAKE DEPTH: 105 ft

| Time | Depth to Water (ft) | Purge Rate (mL/min) | FIELD MEASUREMENTS | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | Temp. (°C) | Conduct. (µs/cm) | DO (mg/L) | pH | ORP | Turbidity (ntu) | |
| 14:50 | 43.30 | | | | | | | | Static water level |
| 15:05 | | | | | | | | | pump on |
| 15:10 | 42.20 | 250 | 16.39 | 0.223 | 6.16 | 5.35 | 329 | 46.9 | |
| 15:20 | 42.61 | 250 | 14.70 | 0.232 | 5.69 | 5.25 | 329 | 125 | |
| 15:30 | 42.65 | 250 | 14.04 | 0.230 | 6.19 | 5.19 | 330 | 15.7 | |
| 15:40 | 42.63 | 250 | 13.76 | 0.230 | 6.40 | 5.22 | 330 | 138 | |
| 15:50 | 42.63 | 250 | 13.67 | 0.231 | 6.28 | 5.35 | 321 | 154 | |
| 16:00 | 42.63 | 250 | 13.77 | 0.229 | 6.30 | 5.33 | 322 | 85.4 | |
| 16:05 | 42.63 | 250 | 13.73 | 0.229 | 6.34 | 5.32 | 322 | 92.0 | |
| 16:10 | 42.63 | 250 | 13.75 | 0.229 | 6.33 | 5.37 | 320 | 95.3 | |
| | | | | | | | | | |
| 16:15 | | | | | | | | | Unfiltered Sample LMW-21 Collected |
| 16:17 | | | | | | | | | Filtered Sample LMW-21F Collected |
| | | | | | | | | | |
| | | | | | | | | | 1/4" (OD) poly and 1/4" (OD) poly |
| | | | | | | | | | bonded tubing put back into the well. |

Pump Type: QED Bladder Pump

Analytical Parameters: TAL Metals (Total and Field Filtered)

# Appendix B

# NYSDEC Monitoring Well Field Inspection Logs

**SITE NAME:** **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: CF/RP

# MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/12/16 8:00
WEll ID.: LMW-1

| | YES | NO |
|---|---|---|
| WELL VISIBLE? (If not, provide directions below) | | X |

WELL COORDINATES? NYTM X _____ NYTM Y _____ See Report
PDOP Reading from Trimble pathfinder: _____ Satelites: _____
GPS Method (circle) Trimble And/Or Magellan

| | YES | NO |
|---|---|---|
| WELL I.D. VISIBLE? | | X |
| WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) | NA | |

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

| | YES | NO |
|---|---|---|
| SURFACE SEAL PRESENT? | NA | |
| SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) | NA | |
| PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) | NA | |

HEADSPACE READING (ppm) AND INSTRUMENT USED ..... NA
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) ..... NA
PROTECTIVE CASING MATERIAL TYPE: ..... NA
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): ..... NA

| | YES | NO |
|---|---|---|
| LOCK PRESENT? | NA | |
| LOCK FUNCTIONAL? | NA | |
| DID YOU REPLACE THE LOCK? | NA | |
| IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) | NA | |
| WELL MEASURING POINT VISIBLE? | NA | |

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): ..... NA
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): ..... NA
MEASURE WELL DIAMETER (Inches): ..... NA
WELL CASING MATERIAL: ..... NA
PHYSICAL CONDITION OF VISIBLE WELL CASING: ..... NA
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE ..... NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES ..... NA

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Well was not located under debris and garbage. Known to be in between two fences, not accessible by truck.
Well most likely dry since it has been historically dry with higher groundwater elevations.

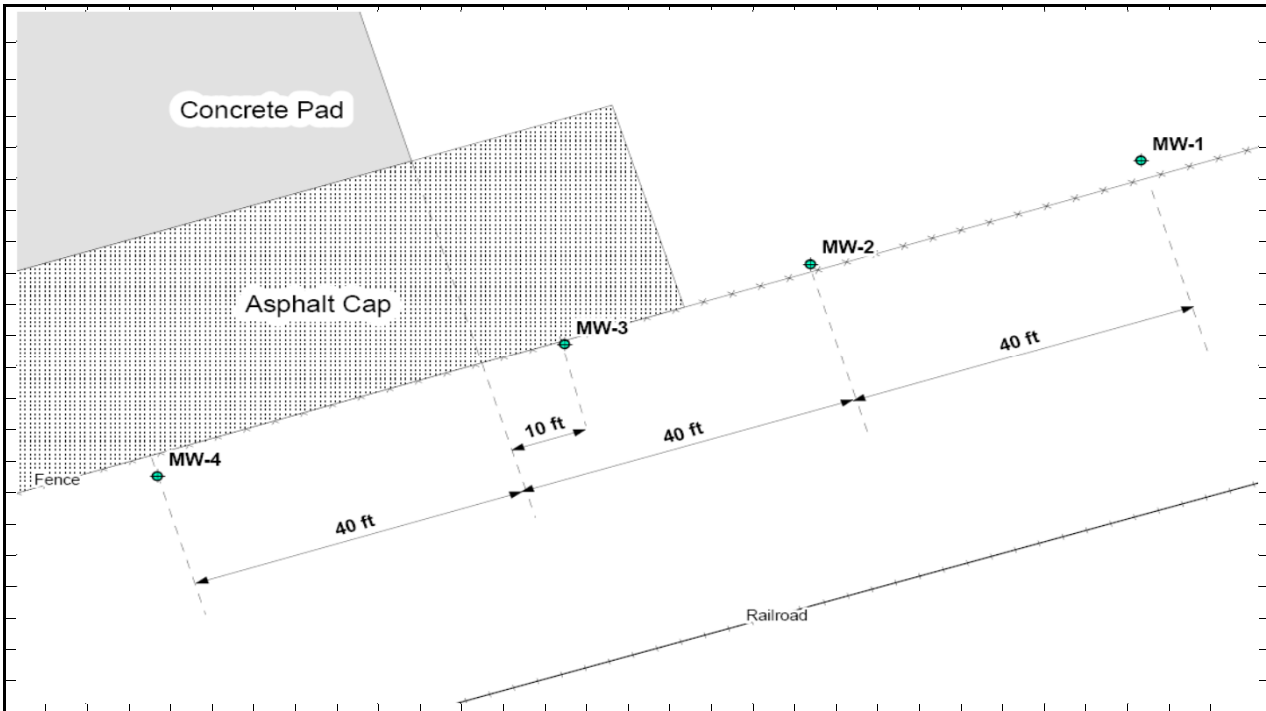
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
Well is located between two fences (site fence and defunct fence section) currently full of vegatation, debris and garbage from vagrants.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
Capped area on-site. Gas station to the west of the Site. Railroad to south.

REMARKS:
Well not located

MONITORING WELL INSPECTION LOG

SKETCH




**SITE NAME:** **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: CF/RP

# MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/12/16 8:00
WEll ID.: LMW-2

| | YES | NO |
|---|---|---|
| WELL VISIBLE? (If not, provide directions below) | | X |

WELL COORDINATES? NYTM X 2,206,950.31 NYTM Y 201,798.35 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

| | YES | NO |
|---|---|---|
| WELL I.D. VISIBLE? | | X |
| WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) | X | |

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

| | YES | NO |
|---|---|---|
| SURFACE SEAL PRESENT? | X | |
| SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) | X | |
| PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) | X | |

| | |
|---|---|
| HEADSPACE READING (ppm) AND INSTRUMENT USED | 0.0 PID |
| TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) | NA |
| PROTECTIVE CASING MATERIAL TYPE: | SS |
| MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): | 6 |

| | YES | NO |
|---|---|---|
| LOCK PRESENT? | X | |
| LOCK FUNCTIONAL? | | X |
| DID YOU REPLACE THE LOCK? | | X |
| IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) | | X |
| WELL MEASURING POINT VISIBLE? | X | |

| | |
|---|---|
| MEASURE WELL DEPTH FROM MEASURING POINT (Feet): | 54.1 |
| MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): | 45.30 |
| MEASURE WELL DIAMETER (Inches): | 4 |
| WELL CASING MATERIAL: | PVC |
| PHYSICAL CONDITION OF VISIBLE WELL CASING: | GOOD |
| ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE | - |
| PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES | CLOSE |

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
overhead lines, close to fence and railroad property

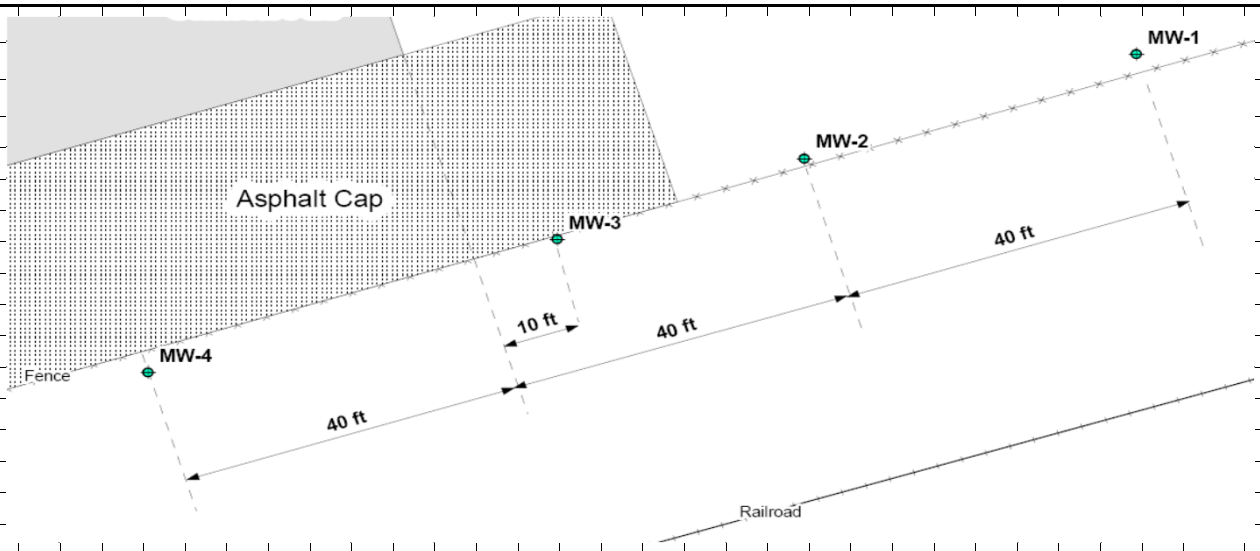
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
within site fence, surrounded by overgrown vegetation

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
Capped area on-site. Gas station to the west of the Site. Railroad to south.

REMARKS:
New bolts needed, 1/4" poly bonded tubing left in well.
Previously fence was marked at location with spray paint to aid in locating the well.

MONITORING WELL INSPECTION LOG

SKETCH




**SITE NAME:** **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: CF/RP

# MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/12/16 8:00
WEll ID.: LMW-3

| | YES | NO |
|---|---|---|
| WELL VISIBLE? (If not, provide directions below) | | X |

WELL COORDINATES? NYTM X 2,206,950.31 NYTM Y 201,798.35 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

| | YES | NO |
|---|---|---|
| WELL I.D. VISIBLE? | | X |
| WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) | X | |

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

| | YES | NO |
|---|---|---|
| SURFACE SEAL PRESENT? | X | |
| SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) | X | |
| PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) | X | |

| | |
|---|---|
| HEADSPACE READING (ppm) AND INSTRUMENT USED | 0.0 PID |
| TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) | NA |
| PROTECTIVE CASING MATERIAL TYPE: | SS |
| MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): | 8 |

| | YES | NO |
|---|---|---|
| LOCK PRESENT? | X | |
| LOCK FUNCTIONAL? | | X |
| DID YOU REPLACE THE LOCK? | | X |
| IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) | | X |
| WELL MEASURING POINT VISIBLE? | X | |

| | |
|---|---|
| MEASURE WELL DEPTH FROM MEASURING POINT (Feet): | 54.0 |
| MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): | 45.31 |
| MEASURE WELL DIAMETER (Inches): | 4 |
| WELL CASING MATERIAL: | PVC |
| PHYSICAL CONDITION OF VISIBLE WELL CASING: | GOOD |
| ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE | - |
| PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES | CLOSE |

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Not accessible, in between site fence and railroad fence. Overhead lines also present.

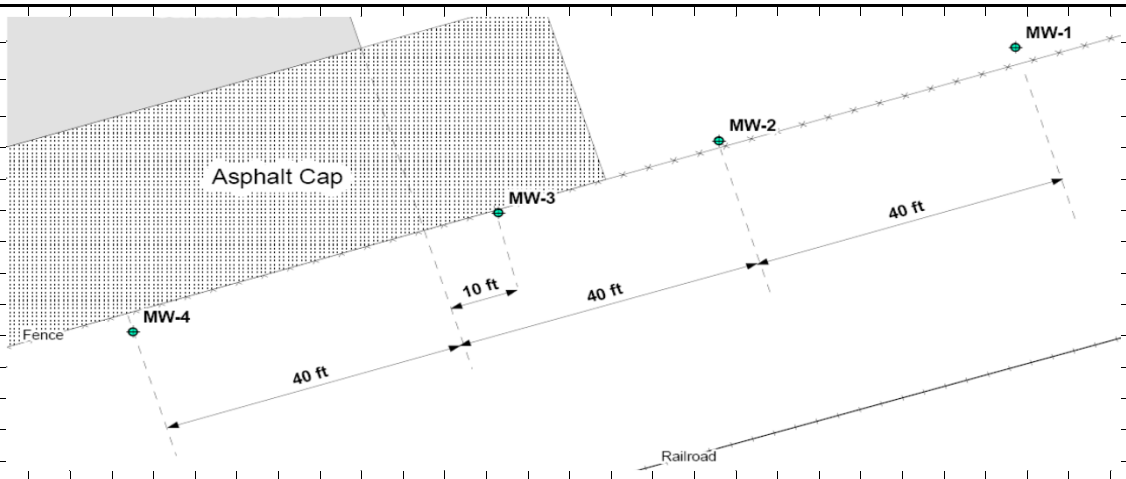
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
Between site fence and railroad fence, covered by vegetation.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
Capped area on-site. Gas station to the west of the Site. Railroad to south.

REMARKS:
New bolts needed, 1/4" poly bonded tubing left in well.
Previously fence was marked at location with spray paint to aid in locating the well.

MONITORING WELL INSPECTION LOG

SKETCH




From cut in the fence

**SITE NAME:** **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: CF/RP

# MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/12/16 8:00
WEll ID.: LMW-4

| | YES | NO |
|---|---|---|
| WELL VISIBLE? (If not, provide directions below) | | X |

WELL COORDINATES? NYTM X 2,206,950.31 NYTM Y 201,798.35 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

| | YES | NO |
|---|---|---|
| WELL I.D. VISIBLE? | | X |
| WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) | X | |

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

| | YES | NO |
|---|---|---|
| SURFACE SEAL PRESENT? | X | |
| SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) | X | |
| PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) | X | |

| | |
|---|---|
| HEADSPACE READING (ppm) AND INSTRUMENT USED | 0.0 PID |
| TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) | NA |
| PROTECTIVE CASING MATERIAL TYPE: | SS |
| MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): | 8 |

| | YES | NO |
|---|---|---|
| LOCK PRESENT? | X | |
| LOCK FUNCTIONAL? | | X |
| DID YOU REPLACE THE LOCK? | | X |
| IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) | | X |
| WELL MEASURING POINT VISIBLE? | X | |

| | |
|---|---|
| MEASURE WELL DEPTH FROM MEASURING POINT (Feet): | 54 |
| MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): | 45.65 |
| MEASURE WELL DIAMETER (Inches): | 4 |
| WELL CASING MATERIAL: | PVC |
| PHYSICAL CONDITION OF VISIBLE WELL CASING: | GOOD |
| ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE | - |
| PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES | CLOSE |

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Not accessible, in between site fence and railroad fence. Overhead lines also present.

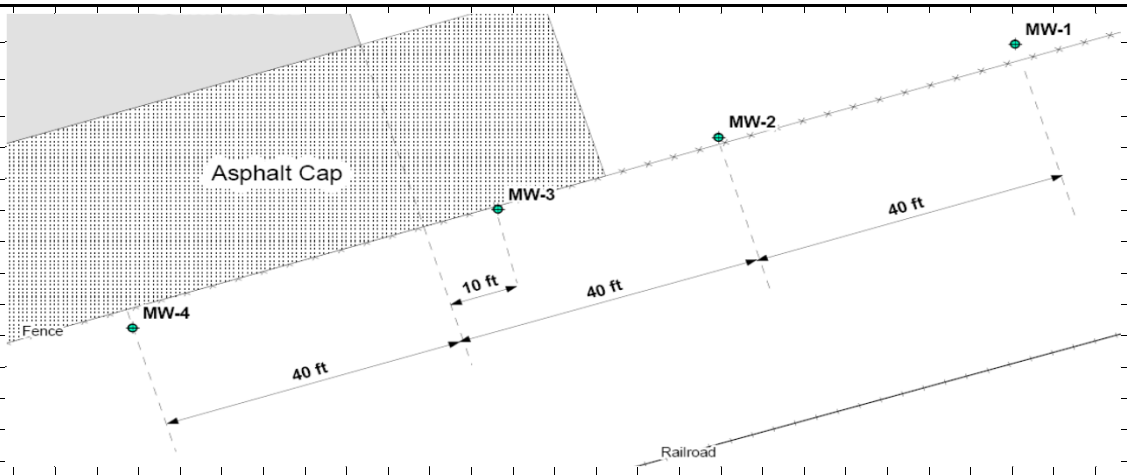
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
Between site fence and railroad fence, covered by vegetation.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
Capped area on-site. Gas station to the west of the Site. Railroad to south.

REMARKS:
New bolts needed, 1/4" poly bonded tubing left in well.
Previously fence was marked at location with spray paint to aid in locating the well.

MONITORING WELL INSPECTION LOG

SKETCH




**SITE NAME:** **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: CF/RP

# MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10/16 8:00
WEll ID.: LMW-5

| | YES | NO |
|---|---|---|
| WELL VISIBLE? (If not, provide directions below) | X | |

WELL COORDINATES? NYTM X 2,206,350.98 NYTM Y 202,308.86 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

| | YES | NO |
|---|---|---|
| WELL I.D. VISIBLE? | | X |
| WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) | X | |

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

| | YES | NO |
|---|---|---|
| SURFACE SEAL PRESENT? | | X |
| SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) | | X |
| PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) | | X |

Cap does not close properly. Lid is not flush with casing.

| | |
|---|---|
| HEADSPACE READING (ppm) AND INSTRUMENT USED | 0.0 PID |
| TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) | 2 |
| PROTECTIVE CASING MATERIAL TYPE: | SS |
| MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): | 6 |

| | YES | NO |
|---|---|---|
| LOCK PRESENT? | | X |
| LOCK FUNCTIONAL? | | X |
| DID YOU REPLACE THE LOCK? | | X |
| IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) | | X |
| WELL MEASURING POINT VISIBLE? | X | |

| | |
|---|---|
| MEASURE WELL DEPTH FROM MEASURING POINT (Feet): | 57 |
| MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): | 47.35 |
| MEASURE WELL DIAMETER (Inches): | 4 |
| WELL CASING MATERIAL: | PVC |
| PHYSICAL CONDITION OF VISIBLE WELL CASING: | GOOD |
| ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE | - |
| PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES | - |

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Overgrown vegetation, accessible by truck mounted rig with some clearing.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

located in a wooded area between site concrete and fence, surrounded by overgrown vegetation

surrounded by debris and trash

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Capped area on-site. Gas station to the west of the Site. Railroad to south.

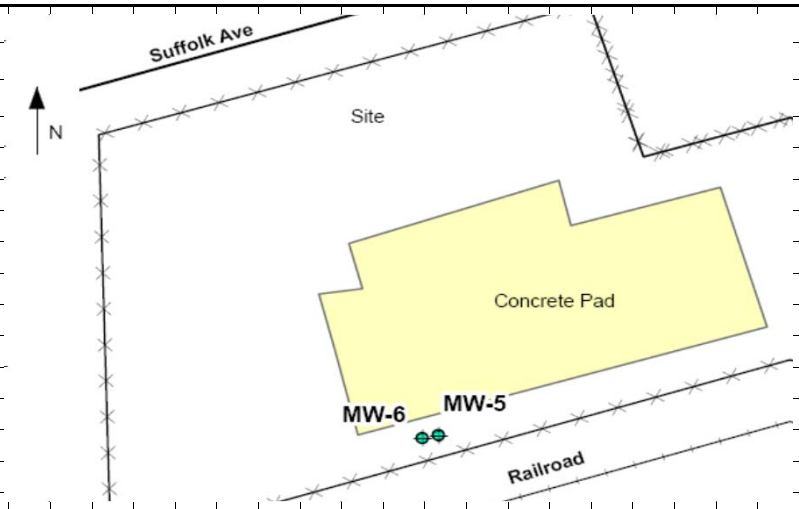
REMARKS:

Needs lock, protective casing lid needs to be fixed

1/4" poly bonded tubing left in well

MONITORING WELL INSPECTION LOG

SKETCH




**SITE NAME:** **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: CF/RP

# MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10/16 8:00
WEll ID.: LMW-6

| | YES | NO |
|---|---|---|
| WELL VISIBLE? (If not, provide directions below) | X | |

WELL COORDINATES? NYTM X 2,206,341.15 NYTM Y 202,306.77 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

| | YES | NO |
|---|---|---|
| WELL I.D. VISIBLE? | | X |
| WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) | X | |

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

| | YES | NO |
|---|---|---|
| SURFACE SEAL PRESENT? | | X |
| SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) | | X |
| PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) | X | |

| | |
|---|---|
| HEADSPACE READING (ppm) AND INSTRUMENT USED | 0.0 PID |
| TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) | 1 |
| PROTECTIVE CASING MATERIAL TYPE: | SS |
| MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): | 6 |

| | YES | NO |
|---|---|---|
| LOCK PRESENT? | | X |
| LOCK FUNCTIONAL? | | X |
| DID YOU REPLACE THE LOCK? | | X |
| IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) | | X |
| WELL MEASURING POINT VISIBLE? | X | |

| | |
|---|---|
| MEASURE WELL DEPTH FROM MEASURING POINT (Feet): | 265 |
| MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): | 47.15 |
| MEASURE WELL DIAMETER (Inches): | 4 |
| WELL CASING MATERIAL: | PVC |
| PHYSICAL CONDITION OF VISIBLE WELL CASING: | Average |
| ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE | - |
| PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES | - |

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Overgrown vegetation, accessible by truck mounted rig with some clearing.

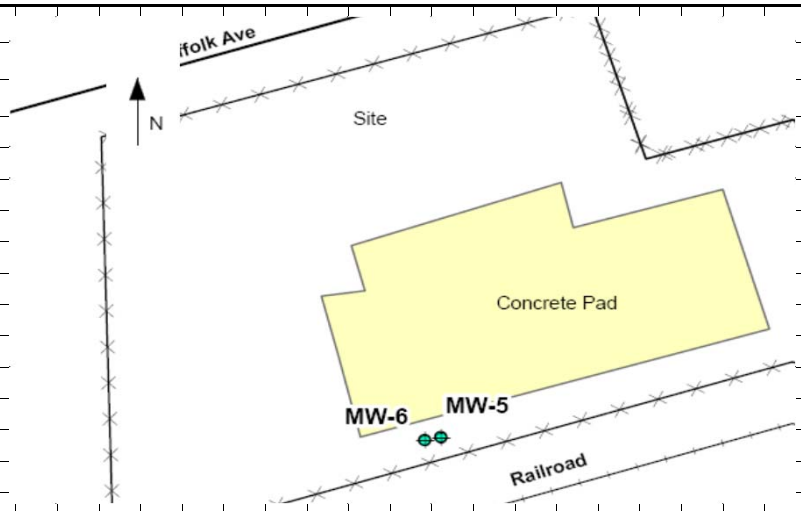
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
located in a wooded area between site concrete and fence, surrounded by overgrown vegetation
surrounded by debris and trash

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
Capped area on-site. Gas station to the west of the Site. Railroad to south.

REMARKS:
Well J-Plug/cap is missing, needs a new one. Needs a lock.
New tubing (3/8" x 1/4" bonded) would not go back in well, coiled and bagged.

MONITORING WELL INSPECTION LOG

SKETCH




**SITE NAME:** **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: CF/RP

# MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/9/16 15:00
WEll ID.: LMW-10

| | YES | NO |
|---|---|---|
| WELL VISIBLE? (If not, provide directions below) | X | |

WELL COORDINATES? NYTM X 2,206,950.31 NYTM Y 201,798.35 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

| | YES | NO |
|---|---|---|
| WELL I.D. VISIBLE? | | X |
| WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) | X | |

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

| | YES | NO |
|---|---|---|
| SURFACE SEAL PRESENT? | X | |
| SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) | X | |
| PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) | X | |

| | |
|---|---|
| HEADSPACE READING (ppm) AND INSTRUMENT USED | 0.0 PID |
| TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) | NA |
| PROTECTIVE CASING MATERIAL TYPE: | SS |
| MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): | 6 |

| | YES | NO |
|---|---|---|
| LOCK PRESENT? | X | |
| LOCK FUNCTIONAL? | | X |
| DID YOU REPLACE THE LOCK? | | X |
| IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) | | X |
| WELL MEASURING POINT VISIBLE? | X | |

| | |
|---|---|
| MEASURE WELL DEPTH FROM MEASURING POINT (Feet): | 50.00 |
| MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): | 44.50 |
| MEASURE WELL DIAMETER (Inches): | 4 |
| WELL CASING MATERIAL: | PVC |
| PHYSICAL CONDITION OF VISIBLE WELL CASING: | RUSTY |
| ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE | - |
| PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES | - |

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Accessible by truck mounted rig across ball fields.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
baseball field edge, grass
homeless dwelling on other side of fence, between field and a railroad

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
School bus parking lot, recharge Basin and railroad

REMARKS:
1/4" poly bonded tubing left in well

MONITORING WELL INSPECTION LOG

SKETCH


**SITE NAME:** **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: CF/RP

# MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/9/16 15:00
WEll ID.: LMW-16

| | YES | NO |
|---|---|---|
| WELL VISIBLE? (If not, provide directions below) | X | |

WELL COORDINATES? NYTM X 2,206,950.31 NYTM Y 201,798.35 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

| | YES | NO |
|---|---|---|
| WELL I.D. VISIBLE? | X | |
| WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) | X | |

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

| | YES | NO |
|---|---|---|
| SURFACE SEAL PRESENT? | X | |
| SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) | X | |
| PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) | X | |

| | |
|---|---|
| HEADSPACE READING (ppm) AND INSTRUMENT USED | 0.0 PID |
| TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) | NA |
| PROTECTIVE CASING MATERIAL TYPE: | SS |
| MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): | 6 |

| | YES | NO |
|---|---|---|
| LOCK PRESENT? | X | |
| LOCK FUNCTIONAL? | | X |
| DID YOU REPLACE THE LOCK? | | X |
| IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) | | X |
| WELL MEASURING POINT VISIBLE? | X | |

| | |
|---|---|
| MEASURE WELL DEPTH FROM MEASURING POINT (Feet): | 99 |
| MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): | 44.74 |
| MEASURE WELL DIAMETER (Inches): | 2 |
| WELL CASING MATERIAL: | PVC |
| PHYSICAL CONDITION OF VISIBLE WELL CASING: | GOOD |
| ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE | - |
| PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES | - |

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Accessible by truck mounted rig across ball fields.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
baseball field edge, grass

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
School bus parking lot, recharge Basin and railroad
homeless dwelling on other side of fence, between field and a railroad

REMARKS:
1/4" poly bonded tubing left in well

MONITORING WELL INSPECTION LOG

SKETCH



**SITE NAME:** **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: CF/RP

# MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/9/16 12:00
WEll ID.: LMW-12

| | YES | NO |
|---|---|---|
| WELL VISIBLE? (If not, provide directions below) | X | |

WELL COORDINATES? NYTM X 2,206,863.98 NYTM Y 201,973.43 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

| | YES | NO |
|---|---|---|
| WELL I.D. VISIBLE? | | X |
| WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) | X | |

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

| | YES | NO |
|---|---|---|
| SURFACE SEAL PRESENT? | X | |
| SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) | X | |
| PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) | X | |

| | |
|---|---|
| HEADSPACE READING (ppm) AND INSTRUMENT USED | 0.0 PID |
| TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) | NA |
| PROTECTIVE CASING MATERIAL TYPE: | SS |
| MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): | 6 |

| | YES | NO |
|---|---|---|
| LOCK PRESENT? | X | |
| LOCK FUNCTIONAL? | | X |
| DID YOU REPLACE THE LOCK? | | X |
| IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) | | X |
| WELL MEASURING POINT VISIBLE? | X | |

| | |
|---|---|
| MEASURE WELL DEPTH FROM MEASURING POINT (Feet): | 49 |
| MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): | 43.82 |
| MEASURE WELL DIAMETER (Inches): | 2 |
| WELL CASING MATERIAL: | PVC |
| PHYSICAL CONDITION OF VISIBLE WELL CASING: | GOOD |
| ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE | - |
| PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES | - |

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Accessible by truck mounted rig

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
Located on the ROW along First Street on the corner of parking lot

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
Parking Lot, Street, Recharge basin across First St

REMARKS:
New bolts needed, 1/4" poly bonded tubing left in well
Well had a lot of sedimentation built up in and around the well.

MONITORING WELL INSPECTION LOG

SKETCH

**SITE NAME:** **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: CF/RP

# MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/9/16 12:00
WEll ID.: LMW-14

| | YES | NO |
|---|---|---|
| WELL VISIBLE? (If not, provide directions below) | X | |

WELL COORDINATES? NYTM X 2,206,866.03 NYTM Y 201,966.33 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

| | YES | NO |
|---|---|---|
| WELL I.D. VISIBLE? | | X |
| WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) | X | |

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

| | YES | NO |
|---|---|---|
| SURFACE SEAL PRESENT? | X | |
| SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) | X | |
| PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) | X | |

| | |
|---|---|
| HEADSPACE READING (ppm) AND INSTRUMENT USED | 0.0 PID |
| TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) | NA |
| PROTECTIVE CASING MATERIAL TYPE: | SS |
| MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): | 6 |

| | YES | NO |
|---|---|---|
| LOCK PRESENT? | X | |
| LOCK FUNCTIONAL? | | X |
| DID YOU REPLACE THE LOCK? | | X |
| IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) | | X |
| WELL MEASURING POINT VISIBLE? | X | |

| | |
|---|---|
| MEASURE WELL DEPTH FROM MEASURING POINT (Feet): | 100 |
| MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): | 44.21 |
| MEASURE WELL DIAMETER (Inches): | 2 |
| WELL CASING MATERIAL: | PVC |
| PHYSICAL CONDITION OF VISIBLE WELL CASING: | Cracked |
| ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE | - |
| PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES | - |

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
Accessible by truck mounted rig

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
Located on the ROW along First Street on the corner of parking lot

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
Parking Lot, Street, Recharge basin across First St

REMARKS:
PVC cracked and new bolts needed, 1/4" poly bonded tubing left in well
Well had a lot of sedimentation built up in and around the well.

MONITORING WELL INSPECTION LOG

SKETCH

**SITE NAME:** **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: CF/RP

# MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10/16 12:00
WEll ID.: LMW-18

| | YES | NO |
|---|---|---|
| WELL VISIBLE? (If not, provide directions below) | X | |

WELL COORDINATES? NYTM X 2,206,386.65 NYTM Y 202,102.30 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

| | YES | NO |
|---|---|---|
| WELL I.D. VISIBLE? | | X |
| WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) | X | |

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

| | YES | NO |
|---|---|---|
| SURFACE SEAL PRESENT? | X | |
| SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) | X | |
| PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) | X | |

| | |
|---|---|
| HEADSPACE READING (ppm) AND INSTRUMENT USED | 0.0 PID |
| TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) | NA |
| PROTECTIVE CASING MATERIAL TYPE: | SS |
| MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): | 6 |

| | YES | NO |
|---|---|---|
| LOCK PRESENT? | X | |
| LOCK FUNCTIONAL? | | X |
| DID YOU REPLACE THE LOCK? | | X |
| IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) | | X |
| WELL MEASURING POINT VISIBLE? | X | |

| | |
|---|---|
| MEASURE WELL DEPTH FROM MEASURING POINT (Feet): | 150 |
| MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): | 47.5 |
| MEASURE WELL DIAMETER (Inches): | 2 |
| WELL CASING MATERIAL: | PVC |
| PHYSICAL CONDITION OF VISIBLE WELL CASING: | GOOD |
| ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE | - |
| PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES | - |

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Not accessible by truck mounted rig due to partly opening fence gate, trees and not enough turning radius for truck

Accessed through second gate.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Located in the grassy area behind the water tower, within fence that surrounds the recharge basin.

Due to overgrown grass, wells were located with some difficultly.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

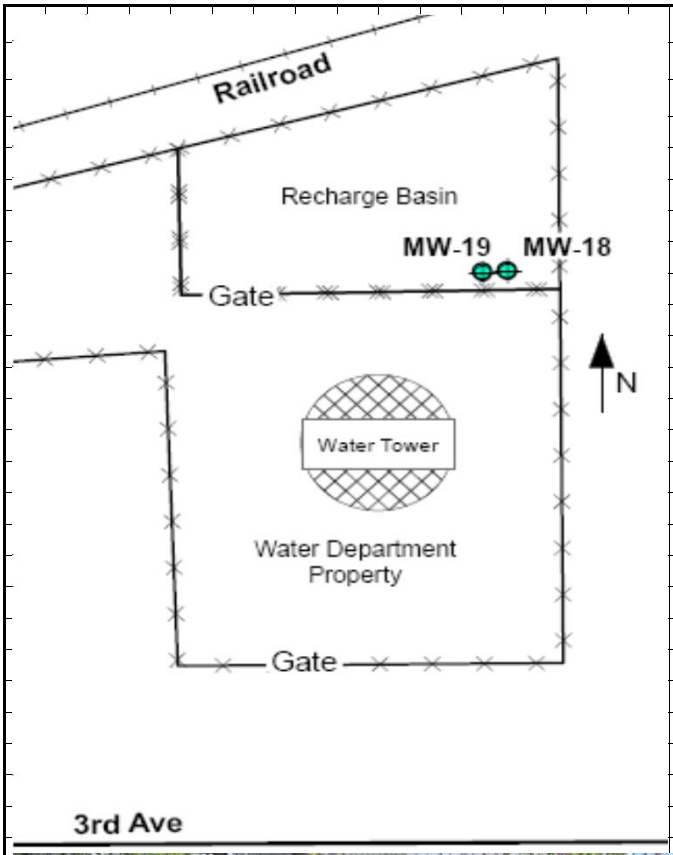
Recharge/Discharge Basin. Railroad to north.

REMARKS:

1/4" poly bonded tubing left in well

MONITORING WELL INSPECTION LOG

SKETCH




**SITE NAME:** **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: CF/RP

# MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/12/16 8:00
WEll ID.: LMW-19

| | YES | NO |
|---|---|---|
| WELL VISIBLE? (If not, provide directions below) | X | |

WELL COORDINATES? NYTM X 2,206,373.86 NYTM Y 202,101.70 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

| | YES | NO |
|---|---|---|
| WELL I.D. VISIBLE? | | X |
| WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) | X | |

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

| | YES | NO |
|---|---|---|
| SURFACE SEAL PRESENT? | X | |
| SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) | X | |
| PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) | X | |

| | |
|---|---|
| HEADSPACE READING (ppm) AND INSTRUMENT USED | 0.0 PID |
| TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) | NA |
| PROTECTIVE CASING MATERIAL TYPE: | SS |
| MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): | 8 |

| | YES | NO |
|---|---|---|
| LOCK PRESENT? | X | |
| LOCK FUNCTIONAL? | | X |
| DID YOU REPLACE THE LOCK? | | X |
| IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) | | X |
| WELL MEASURING POINT VISIBLE? | X | |

| | |
|---|---|
| MEASURE WELL DEPTH FROM MEASURING POINT (Feet): | 265 |
| MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): | 46.61 |
| MEASURE WELL DIAMETER (Inches): | 2 |
| WELL CASING MATERIAL: | PVC |
| PHYSICAL CONDITION OF VISIBLE WELL CASING: | GOOD |
| ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE | - |
| PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES | - |

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Not accessible by truck mounted rig due to partly opening fence gate, trees and not enough turning radius for truck
Accessed through second gate.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Located in the grassy area behind the water tower, within fence that surrounds the recharge basin.
Due to overgrown grass, wells were located with some difficultly.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

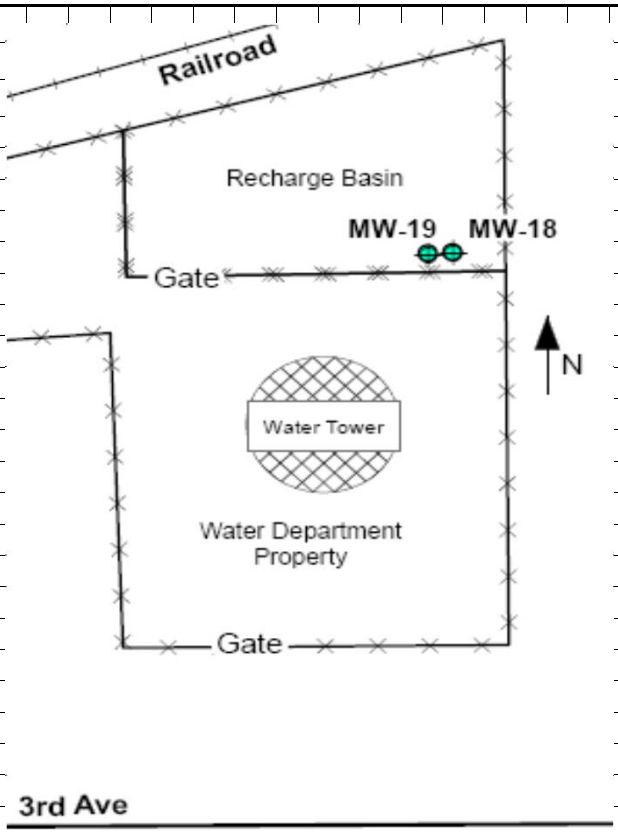
Recharge/Discharge Basin. Railroad to north.

REMARKS:

New tubing (3/8" x 1/4" bonded) would not go back in well, coiled and bagged.

MONITORING WELL INSPECTION LOG

SKETCH




**SITE NAME:** **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: CF/RP

# MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10/16 15:00
WEll ID.: LMW-20

| | YES | NO |
|---|---|---|
| WELL VISIBLE? (If not, provide directions below) | X | |

WELL COORDINATES? NYTM X 2,206,946.09 NYTM Y 201,798.92 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

| | YES | NO |
|---|---|---|
| WELL I.D. VISIBLE? | | X |
| WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) | X | |

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

| | YES | NO |
|---|---|---|
| SURFACE SEAL PRESENT? | X | |
| SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) | X | |
| PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) | X | |

| | |
|---|---|
| HEADSPACE READING (ppm) AND INSTRUMENT USED | 0.0 PID |
| TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) | NA |
| PROTECTIVE CASING MATERIAL TYPE: | SS |
| MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): | 6 |

| | YES | NO |
|---|---|---|
| LOCK PRESENT? | X | |
| LOCK FUNCTIONAL? | | X |
| DID YOU REPLACE THE LOCK? | | X |
| IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) | | X |
| WELL MEASURING POINT VISIBLE? | X | |

| | |
|---|---|
| MEASURE WELL DEPTH FROM MEASURING POINT (Feet): | 150 |
| MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): | 43.35 |
| MEASURE WELL DIAMETER (Inches): | 2 |
| WELL CASING MATERIAL: | PVC |
| PHYSICAL CONDITION OF VISIBLE WELL CASING: | GOOD |
| ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE | - |
| PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES | - |

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by truck mounted rig

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Grassy area in right of way along 3rd Ave

Hard to locate well under grass

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Road, Recharge Basin

REMARKS:

New bolts needed

1/4" poly bonded tubing left in well

MONITORING WELL INSPECTION LOG

SKETCH

**SITE NAME:** **Liberty Industrial Finishing**

SITE ID.: 1-52-108
INSPECTOR: CF/RP

# MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/10/16 15:00
WEll ID.: LMW-21

| | YES | NO |
|---|---|---|
| WELL VISIBLE? (If not, provide directions below) | X | |

WELL COORDINATES? NYTM X 2,206,950.31 NYTM Y 201,798.35 See Report
PDOP Reading from Trimble pathfinder: Satelites:
GPS Method (circle) Trimble And/Or Magellan

| | YES | NO |
|---|---|---|
| WELL I.D. VISIBLE? | X | |
| WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) | X | |

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

| | YES | NO |
|---|---|---|
| SURFACE SEAL PRESENT? | X | |
| SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below) | X | |
| PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) | X | |

| | |
|---|---|
| HEADSPACE READING (ppm) AND INSTRUMENT USED | 0.0 PID |
| TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) | NA |
| PROTECTIVE CASING MATERIAL TYPE: | SS |
| MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): | 6 |

| | YES | NO |
|---|---|---|
| LOCK PRESENT? | X | |
| LOCK FUNCTIONAL? | | X |
| DID YOU REPLACE THE LOCK? | | X |
| IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below) | | X |
| WELL MEASURING POINT VISIBLE? | X | |

| | |
|---|---|
| MEASURE WELL DEPTH FROM MEASURING POINT (Feet): | 110.00 |
| MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): | 43.30 |
| MEASURE WELL DIAMETER (Inches): | 2 |
| WELL CASING MATERIAL: | PVC |
| PHYSICAL CONDITION OF VISIBLE WELL CASING: | GOOD |
| ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE | - |
| PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES | - |

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by truck mounted rig

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Grassy area in right of way along 3rd Ave

Sedimentation build up inside well casing and red ants.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

Road, Recharge Basin

REMARKS:

New bolts needed

1/4" poly bonded tubing left in well

MONITORING WELL INSPECTION LOG

SKETCH

# Appendix C

# Site Inspection Form

AECOM

**SITE INSPECTION FORM**

Liberty Industrial Finishing Site
550 Suffolk Ave, Brentwood, Suffolk County, NY
NYSDEC Site ID # 1-52-108

Client: New York State Department of Environmental Conservation

Preparer's Name: Celeste Foster Date/Time: 5/11/2016, 13:00

**Asphalt Cap**

| | | | |
|---|---|---|---|
| Has the condition of the asphalt degraded since the last inspection? | ☐ YES | ■ NO | ☐ NA |
| Are any cracks visible in the asphalt pavement? | ■ YES | ☐ NO | ☐ NA |
| Is there evidence of uneven settling and or ponding? | ☐ YES | ■ NO | ☐ NA |
| Is there damage to any surface coverage? | ☐ YES | ■ NO | ☐ NA |

**Fence**

| | | | |
|---|---|---|---|
| Are there any breaks in the perimeter fence? | ■ YES | ☐ NO | ☐ NA |
| Are there any damaged or bent posts? | ☐ YES | ■ NO | ☐ NA |
| Are the "No Trespassing" signs missing or damaged? | ☐ YES | ■ NO | ☐ NA |
| Is the Suffolk Avenue gate damaged or bent? | ■ YES | ☐ NO | ☐ NA |
| Is the Suffolk Avenue locked? | ☐ YES | ■ NO | ☐ NA |
| Is the gate padlock damaged or in poor condition? | ■ YES | ☐ NO | ☐ NA |

**Site Condition**

| | | | |
|---|---|---|---|
| Is there any evidence of illegal disposal? | ■ YES | ☐ NO | ☐ NA |
| Is there uncontrolled vegetation growth? | ■ YES | ☐ NO | ☐ NA |
| Is there any evidence of unauthorized entry? | ■ YES | ☐ NO | ☐ NA |

If yes to any question above, provide additional information below.

The asphaly has some visible cracks.

The fence has been breached at the north side of the Site.

The gate is open and the padlock is continuially removed.

There are vagrants and skateboarders.

There is a lot of trash strewn around the site and a skate park that includesa defunct car.

View of asphalt cap looking west

Cracks in the asphalt

View of skate park structures

Trash around the site

Abandoned car, skate park ramps, overgrown vegetatation

Areas of illegal trash disposal

# Appendix D

# Laboratory Data Summary Packages

Hampton-Clarke
Analytical & Field Services

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

# Project: Liberty Finishing

**Client PO:** 60277021

**Report To:** AECOM
100 Red School House Rd.
Suite B-1
Chestnut Ridge, NY 10977

Attn: Paul Kareth

**Received Date:** 5/10/2016

**Report Date:** 5/26/2016

**Deliverables:** NYDOH-CatA

**Lab ID:** AC91268

**Lab Project No:** 6051025



**Robin Cousineau - Quality Assurance Director** OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

NELAP ACCREDITED TNI LABORATORY

Hampton-Clarke
Analytical & Field Services

**THIS CATEGORY "A" REPORT**
**IS NUMBERED FROM**
**1 to 100**

# HC Case Narrative

**Client:** AECOM
**Project:** Liberty Finishing

**HC Project:** 6051025

**Hampton-Clarke (HC) received the following samples on 5/10/16:**

| Client ID | HC Sample ID | Matrix | Analysis |
|---|---|---|---|
| LMW-12 U | AC91268-001 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-12 U MS | AC91268-002 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-12 U MSD | AC91268-003 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-12 F | AC91268-004 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-12 F MS | AC91268-005 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-12 F MSD | AC91268-006 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-62 U | AC91268-007 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-62 F | AC91268-008 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-14 U | AC91268-009 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-14 F | AC91268-010 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-16 U | AC91268-011 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-16 F | AC91268-012 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-10 U | AC91268-013 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-10 F | AC91268-014 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-5 U | AC91268-015 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-5 F | AC91268-016 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-6 U | AC91268-017 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-6 F | AC91268-018 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-18 U | AC91268-019 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-18 F | AC91268-020 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-19 U | AC91268-021 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-19F | AC91268-022 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |

*This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.*

## Metals Analysis:

The RPD between the QC sample and the Method Replicate had recoveries outside QC limits in batch 52408. Please refer to the applicable Form 6/9 for the recoveries.

The serial dilution for batches 52408 and 52409 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Robin Cousineau
Quality Assurance Director

Or

Jean Revolus
Laboratory Director

5/26/2016
Date

6051025 0002

**Hampton-Clarke, Inc. (WBE/DBE/SBE)**
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992
*A Women-Owned, Disadvantaged, Small Business Enterprise*

# CHAIN OF CUSTODY RECORD

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Project # (Lab Use Only): 6051025



## Customer Information

1a) Customer: AECOM
Address: 100 Redschoolhouse Rd, Ste B-1
Chestnut Ridge, NY 10977
1b) Email/Cell/Fax/Ph: Paul.Kareth@aecom.com
1c) Send Invoice to: Paul Kareth
1d) Send Report to: Paul Kareth

## Project Information

2a) Project: Liberty Finishing
2b) Project Mgr: Paul Kareth
2c) Project Location (City/State): Brentwood NY
2d) Quote/PO # (If Applicable): 60277021

## 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Deliv. |
|---|---|---|
| When Available: | Data Summary | Hazsite/CSV |
| 1 Business Day (100%)* | Results + QC (Waste) | EnviroData |
| 2 Business Days (75%)* | NJ Reduced | Excel - NJ Regulatory |
| 3 Business Days (50%)* | NY Reduced | Excel - NY Regulatory |
| 4 Business Days (35%)* | PA Reduced | Excel - PA Regulatory |
| 5 Business Days (25%) | Full / Category B | EQuIS (specify below): |
| 10 Business Days (Stand.) | Category A | 4-File/EZ/NYS/Reg. 2 or 5 |
| Other: | Electronic (PDF) | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓
Batch # AC91268

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water | S - Soil | A - Air
GW - Ground Water | SL - Sludge
WW - Waste Water | OL - Oil
OT - Other (please specify under item 9, Comments)

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | 7) Analysis: TAL Metals | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001/002/003 | LMW-12 (MS/MSD) | GW | 5/9/16 | 1355 | | X | ✓ | | | | | | | 3 | | |
| 004/005/006 | LMW-12F (MS/MSD) | GW | | 1358 | | X | ✓ | | | | | | | 3 | | |
| 007 | LMW-62 | GW | | 1410 | | X | ✓ | | | | | | | 1 | | |
| 008 | LMW-62F | GW | | 1413 | | X | ✓ | | | | | | | 1 | | |
| 009 | LMW-14 | GW | | 1400 | | X | ✓ | | | | | | | 1 | | |
| 010 | LMW-14F | GW | | 1401 | | X | ✓ | | | | | | | 1 | | |
| 011 | LMW-16 | ↓ | | 1445 | | ↓ | ✓ | | | | | | | 1 | | |
| 012 | LMW-16F | | | 1447 | | | ✓ | | | | | | | 1 | | |
| 013 | LMW-10 | | | 1420 | | | ✓ | | | | | | | 1 | | |
| 014 | LMW-10F | ↓ | | 1423 | | ↓ | ✓ | | | | | | | 1 | | |

<=== Check If Contingent <===

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| | | 5/10/16 | 1440 |
| | | 5/10/16 | 17:00 |
| | | | |
| | | | |

**Additional Notes**

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- ☐ BN or BNA (8270D SIM)
- ☐ VOC (8260C SIM or 8011)
- ☐ SPLP (BN, BNA, Metals)

For NNJ LSRP projects, indicate which standards need to be met:
- ☐ NJDEP GWQS
- ☐ NJDEP SRS
- ☐ NJDEP SPLP
- ☐ Other (specify):

Check if applicable:
- ☐ Project-Specific Reporting Limits
- ☐ High Contaminant Concentrations
- ☐ NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 3.1

11) Sampler (print name): Celeste Foster Date: 5/10/16

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

6051025 0003

**Hampton-Clarke, Inc. (WBE/DBE/SBE)**
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
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Hampton-Clarke WBE/DBE/SBE 800-426-9992
*A Women-Owned, Disadvantaged, Small Business Enterprise*

# CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 6051025



NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

## Customer Information

1a) Customer: AECOM
Address: 100 Red School house Rd Suite B-1, Chestnut Ridge NY
1b) Email/Cell/Fax/Ph: Paul.kareth@aecom.com
1c) Send Invoice to: Paul Kareth
1d) Send Report to: Paul Kareth

## Project Information

2a) Project: LIBERTY
2b) Project Mgr: Paul Kareth
2c) Project Location (City/State): Brentwood NY
2d) Quote/PO # (If Applicable): 60277021

## 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Deliv. |
|---|---|---|
| When Available: | Data Summary | Hazsite/CSV |
| 1 Business Day (100%)* | Results + QC (Waste) | EnviroData |
| 2 Business Days (75%)* | NJ Reduced | Excel - NJ Regulatory |
| 3 Business Days (50%)* | NY Reduced | Excel - NY Regulatory |
| 4 Business Days (35%)* | PA Reduced | Excel - PA Regulatory |
| 5 Business Days (25%) | Full / Category B | EQuIS (specify below): |
| 10 Business Days (Stand.) | Category A | 4-File/5Z/NYS/Reg. 2 or 5 |
| Other: | Electronic (PDF) | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓

Batch # AC91268

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | TAL Metals | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 015 | LMW-5 | GW | 5/10/16 | 925 | | X | ✓ | | | | | | | 1 | | |
| 016 | LMW-5F | | | 928 | | X | ✓ | | | | | | | 1 | | |
| 017 | LMW-6 | | | 950 | | X | ✓ | | | | | | | 1 | | |
| 018 | LMW-6F | | | 953 | | X | ✓ | | | | | | | 1 | | |
| 019 | LMW-18 | | | 1245 | | | | | | | | | | 1 | | |
| 020 | LMW-18F | | | 1248 | | | | | | | | | | 1 | | |
| 021 | LMW-19 | | | 1315 | | | | | | | | | | 1 | | |
| 022 | LMW-19F | | | 1317 | | | | | | | | | | 1 | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| | | 5/10/16 | 1440 |
| | | 5/10/16 | 17:00 |

**Additional Notes**

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- ☐ BN or BNA (8270D SIM)
- ☐ VOC (8260C SIM or 8011)
- ☐ SPLP (BN, BNA, Metals)

For NNJ LSRP projects, indicate which standards need to be met:
- ☐ NJDEP GWQS
- ☐ NJDEP SRS
- ☐ NJDEP SPLP
- ☐ Other (specify):

Check if applicable:
- ☐ Project-Specific Reporting Limits
- ☐ High Contaminant Concentrations
- ☐ NJ LSRP Project (also check boxes above/right)

Cooler Temperature:

11) Sampler (print name): Celeste Foster Date: 5/10/16

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

# PROJECT MODIFICATIONS

**Client:** AECOM-CRNY **HC Project #:**6051025

**Project:** Liberty Finishing

---

aruccatano192.168.1.97
5/13/2016 2:04:25 PM

---

Per Paul Kareth, reports should be NYDOH- CATA.

# CONDITION UPON RECEIPT

Batch Number AC91268 Entered By: Frantz

Date Entered 5/10/2016 5:28:00 PM

| | | |
|---|---|---|
| 1 | Yes | Is there a corresponding COC included with the samples? |
| 2 | Yes | Are the samples in a container such as a cooler or Ice chest? |
| 3 | Yes | Are the COC seals intact? |
| 4 | T0056 | <--- Thermometer ID. Please specify the Temperature inside the container (in degC).<br>3.1 |
| 5 | Yes | Are the samples refrigerated (where required)/have they arrived on ice? |
| 6 | Yes | Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples: |
| 7 | Yes | Are all of the sample bottles intact? If no, specify sample numbers broken/leaking |
| 8 | Yes | Are all of the sample labels or numbers legible? If no specify: |
| 9 | Yes | Do the contents match the COC? If no, specify |
| 10 | Yes | Is there enough sample sent for the analyses listed on the COC? If no, specify: |
| 11 | Yes | Are samples preserved correctly? |
| 12 | Yes | Was temperature blank present (Place comment below if not)? If not was temperature of samples verified? |
| 13 | NA | Other comments ...Specify |
| 14 | NA | Corrective actions (Specify item number and corrective action taken). |

# PRESERVATION DOCUMENT

Batch Number AC91268 Entered By: Frantz

Date Entered 5/10/2016 5:28:00 PM

| Lab# | Container Size | Container/Vial Check | Parameter | Preservative | Preservative Lot# | PH | pH Lot# |
|---|---|---|---|---|---|---|---|
| AC91268-001 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-002 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-003 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-004 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-005 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-006 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-007 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-008 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-009 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-010 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-011 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-012 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-013 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-014 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-015 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-016 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-017 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-018 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-019 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-020 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-021 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91268-022 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |

# Internal Chain of Custody

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AC91268-001 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-001 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-001 | 05/16/16 05:05 | SP | 1 | A | r12 |
| AC91268-001 | 05/16/16 05:05 | SP | 1 | A | tdwi-hg |
| AC91268-002 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-002 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-002 | 05/16/16 05:05 | SP | 1 | A | r12 |
| AC91268-002 | 05/16/16 05:05 | SP | 1 | A | tdwi-hg |
| AC91268-003 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-003 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-003 | 05/16/16 05:05 | SP | 1 | A | tdwi-hg |
| AC91268-003 | 05/16/16 05:05 | SP | 1 | A | r12 |
| AC91268-004 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-004 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-004 | 05/16/16 09:50 | AM | 1 | A | tdwi/hg |
| AC91268-004 | 05/16/16 11:55 | R12 | 1 | A | NONE |
| AC91268-005 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-005 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-005 | 05/16/16 09:50 | AM | 1 | A | tdwi/hg |
| AC91268-005 | 05/16/16 11:55 | R12 | 1 | A | NONE |
| AC91268-006 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-006 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-006 | 05/16/16 09:50 | AM | 1 | A | tdwi/hg |
| AC91268-006 | 05/16/16 11:55 | R12 | 1 | A | NONE |
| AC91268-007 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-007 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-007 | 05/16/16 05:05 | SP | 1 | A | tdwi-hg |
| AC91268-007 | 05/16/16 05:05 | SP | 1 | A | r12 |
| AC91268-008 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-008 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-008 | 05/16/16 09:50 | AM | 1 | A | tdwi/hg |
| AC91268-008 | 05/16/16 11:55 | R12 | 1 | A | NONE |
| AC91268-009 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-009 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-009 | 05/16/16 05:05 | SP | 1 | A | r12 |
| AC91268-009 | 05/16/16 05:05 | SP | 1 | A | tdwi-hg |
| AC91268-010 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-010 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-010 | 05/16/16 09:50 | AM | 1 | A | tdwi/hg |
| AC91268-010 | 05/16/16 11:55 | R12 | 1 | A | NONE |
| AC91268-011 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-011 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-011 | 05/16/16 05:05 | SP | 1 | A | r12 |
| AC91268-011 | 05/16/16 05:05 | SP | 1 | A | tdwi-hg |
| AC91268-012 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-012 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-012 | 05/16/16 09:50 | AM | 1 | A | tdwi/hg |
| AC91268-012 | 05/16/16 11:55 | R12 | 1 | A | NONE |
| AC91268-013 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-013 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-013 | 05/16/16 05:05 | SP | 1 | A | r12 |
| AC91268-013 | 05/16/16 05:05 | SP | 1 | A | tdwi-hg |
| AC91268-014 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-014 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-014 | 05/16/16 09:50 | AM | 1 | A | tdwi/hg |
| AC91268-014 | 05/16/16 11:55 | R12 | 1 | A | NONE |
| AC91268-015 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-015 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-015 | 05/16/16 05:05 | SP | 1 | A | tdwi-hg |
| AC91268-015 | 05/16/16 05:05 | SP | 1 | A | r12 |
| AC91268-016 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-016 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-016 | 05/16/16 09:50 | AM | 1 | A | tdwi/hg |
| AC91268-016 | 05/16/16 11:55 | R12 | 1 | A | NONE |
| AC91268-017 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-017 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-017 | 05/16/16 05:05 | SP | 1 | A | tdwi-hg |
| AC91268-017 | 05/16/16 05:05 | SP | 1 | A | r12 |
| AC91268-018 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-018 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-018 | 05/16/16 09:50 | AM | 1 | A | tdwi/hg |
| AC91268-018 | 05/16/16 11:55 | R12 | 1 | A | NONE |
| AC91268-019 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-019 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-019 | 05/16/16 05:05 | SP | 1 | A | r12 |
| AC91268-019 | 05/16/16 05:05 | SP | 1 | A | tdwi-hg |
| AC91268-020 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-020 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-020 | 05/16/16 09:50 | AM | 1 | A | tdwi/hg |
| AC91268-020 | 05/16/16 11:55 | R12 | 1 | A | NONE |
| AC91268-021 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-021 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-021 | 05/16/16 05:05 | SP | 1 | A | r12 |
| AC91268-021 | 05/16/16 05:05 | SP | 1 | A | tdwi-hg |
| AC91268-022 | 05/10/16 17:00 | FRANT | 0 | M | Received |
| AC91268-022 | 05/10/16 17:28 | FRANT | 0 | M | Login |
| AC91268-022 | 05/16/16 09:50 | AM | 1 | A | tdwi/hg |
| AC91268-022 | 05/16/16 11:55 | R12 | 1 | A | NONE |

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

# Laboratory Chronicle

**Client:** AECOM

**HC Project #:** 6051025

**Project:** Liberty Finishing

**Lab#: AC91268-001** **Sample ID: LMW-12 U**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | snezana | EPA 7470A | 5/17/16 10:21 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/17/16 16:01 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/18/16 12:20 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/16/16 19:50 | PC |

**Lab#: AC91268-002** **Sample ID: LMW-12 U MS**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | snezana | EPA 7470A | 5/17/16 10:24 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/17/16 16:07 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/18/16 12:27 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/16/16 20:08 | PC |

**Lab#: AC91268-003** **Sample ID: LMW-12 U MSD**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | snezana | EPA 7470A | 5/17/16 10:26 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/17/16 16:10 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/18/16 12:31 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/16/16 20:14 | PC |

**Lab#: AC91268-004** **Sample ID: LMW-12 F**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | AADEWUSI | EPA 7470A | 5/19/16 16:05 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 21:17 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 18:47 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6020A | 5/17/16 00:38 | PC |

# Laboratory Chronicle

**Client:** AECOM **HC Project #:** 6051025

**Project:** Liberty Finishing

**Lab#: AC91268-005** **Sample ID: LMW-12 F MS**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | AADEWUSI | EPA 7470A | 5/19/16 16:08 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 18:54 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 21:24 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6020A | 5/17/16 00:56 | PC |

**Lab#: AC91268-006** **Sample ID: LMW-12 F MSD**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | AADEWUSI | EPA 7470A | 5/19/16 16:10 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 18:58 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 21:27 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6020A | 5/17/16 01:02 | PC |

**Lab#: AC91268-007** **Sample ID: LMW-62 U**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | snezana | EPA 7470A | 5/17/16 10:28 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/18/16 12:44 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/17/16 16:28 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/16/16 20:50 | PC |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/17/16 18:24 | PC |

**Lab#: AC91268-008** **Sample ID: LMW-62 F**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | AADEWUSI | EPA 7470A | 5/19/16 16:12 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 19:23 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 21:45 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6020A | 5/17/16 01:38 | PC |

# Laboratory Chronicle

**Client:** AECOM **HC Project #:** 6051025

**Project:** Liberty Finishing

**Lab#: AC91268-009** **Sample ID: LMW-14 U**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | snezana | EPA 7470A | 5/17/16 10:29 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/17/16 16:32 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/18/16 13:03 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/16/16 20:56 | PC |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/17/16 18:30 | PC |

**Lab#: AC91268-010** **Sample ID: LMW-14 F**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | AADEWUSI | EPA 7470A | 5/19/16 16:13 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 19:26 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 21:48 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6020A | 5/17/16 01:44 | PC |

**Lab#: AC91268-011** **Sample ID: LMW-16 U**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | snezana | EPA 7470A | 5/17/16 10:34 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/17/16 16:35 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/18/16 13:06 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/16/16 21:02 | PC |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/17/16 18:36 | PC |

**Lab#: AC91268-012** **Sample ID: LMW-16 F**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | AADEWUSI | EPA 7470A | 5/19/16 16:15 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 21:52 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 19:30 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6020A | 5/17/16 01:50 | PC |

# Laboratory Chronicle

**Client:** AECOM **HC Project #:** 6051025

**Project:** Liberty Finishing

**Lab#: AC91268-013** **Sample ID: LMW-10 U**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | snezana | EPA 7470A | 5/17/16 10:36 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/17/16 16:38 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/18/16 13:10 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/16/16 21:08 | PC |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/17/16 18:42 | PC |

**Lab#: AC91268-014** **Sample ID: LMW-10 F**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | AADEWUSI | EPA 7470A | 5/19/16 16:19 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 19:55 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 22:12 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/18/16 14:41 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6020A | 5/17/16 01:56 | PC |

**Lab#: AC91268-015** **Sample ID: LMW-5 U**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | snezana | EPA 7470A | 5/17/16 10:37 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/17/16 16:41 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/18/16 13:13 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/16/16 21:14 | PC |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/17/16 18:48 | PC |

**Lab#: AC91268-016** **Sample ID: LMW-5 F**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | AADEWUSI | EPA 7470A | 5/19/16 16:21 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 19:59 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 22:15 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/18/16 14:44 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6020A | 5/17/16 02:02 | PC |

# Laboratory Chronicle

**Client:** AECOM **HC Project #:** 6051025

**Project:** Liberty Finishing

**Lab#: AC91268-017** **Sample ID: LMW-6 U**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | snezana | EPA 7470A | 5/17/16 10:39 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/17/16 16:45 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/18/16 13:17 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/16/16 21:20 | PC |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/17/16 18:54 | PC |

**Lab#: AC91268-018** **Sample ID: LMW-6 F**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | AADEWUSI | EPA 7470A | 5/19/16 16:22 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 20:02 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 22:18 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/18/16 14:48 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6020A | 5/17/16 02:08 | PC |

**Lab#: AC91268-019** **Sample ID: LMW-18 U**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | snezana | EPA 7470A | 5/17/16 10:40 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/17/16 17:05 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/18/16 13:20 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/16/16 21:26 | PC |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/17/16 19:00 | PC |

**Lab#: AC91268-020** **Sample ID: LMW-18 F**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | AADEWUSI | EPA 7470A | 5/19/16 16:23 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 20:06 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 22:21 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/18/16 14:51 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6020A | 5/17/16 02:15 | PC |

# Laboratory Chronicle

**Client:** AECOM **HC Project #:** 6051025

**Project:** Liberty Finishing

**Lab#: AC91268-021** **Sample ID: LMW-19 U**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | snezana | EPA 7470A | 5/17/16 10:42 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/17/16 17:08 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | snezana | EPA 6010C | 5/18/16 13:24 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/16/16 21:32 | PC |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | snezana | EPA 6020A | 5/17/16 19:06 | PC |

**Lab#: AC91268-022** **Sample ID: LMW-19F**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/16/16 | AADEWUSI | EPA 7470A | 5/19/16 16:25 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 20:09 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/17/16 22:25 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6010C | 5/18/16 14:55 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/16/16 | AADEWUSI | EPA 6020A | 5/17/16 02:21 | PC |

# HC Reporting Limit Definitions/Data Qualifiers

## REPORTING DEFINITIONS

**DF** = Dilution Factor

**MDL** = Method Detection Limit

**RL*** = Reporting Limit

**ND** = Not Detected

**RT** = Retention Time

**NA** = Not Applicable

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

## DATA QUALIFIERS

**A-** Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

**B-** Indicates analyte was present in the Method Blank and sample.

**d-** For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

**E-** Indicates the concentration exceeded the upper calibration range of the instrument.

**J-** Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

**R-** Retention Time is out.

**Y-** Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

# HC Report of Analysis

**Client:** AECOM
**Project:** Liberty Finishing

**HC Project #:** 6051025

**Sample ID:** LMW-12 U
**Lab#:** AC91268-001
**Matrix:** Aqueous

**Collection Date:** 5/9/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **950** |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **27000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **980** |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **30000** |
| Vanadium | 1 | ug/l | 50 | ND |
| **Zinc** | **1** | **ug/l** | **50** | **65** |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **3.2** |
| **Beryllium** | **1** | **ug/l** | **1.0** | **2.0** |
| **Cadmium** | **1** | **ug/l** | **2.0** | **5.4** |
| **Cobalt** | **1** | **ug/l** | **2.0** | **3.0** |
| **Lead** | **1** | **ug/l** | **3.0** | **11** |
| Selenium | 1 | ug/l | 10 | ND |
| **Thallium** | **1** | **ug/l** | **2.0** | **2.5** |

Sample ID: LMW-12 U MS
Lab#: AC91268-002
Matrix: Aqueous

Collection Date: 5/9/2016
Receipt Date: 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | 9.7 |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | 5700 |
| Barium | 1 | ug/l | 50 | 530 |
| Calcium | 1 | ug/l | 5000 | 78000 |
| Chromium | 1 | ug/l | 50 | 500 |
| Copper | 1 | ug/l | 50 | 520 |
| Iron | 1 | ug/l | 300 | 5800 |
| Magnesium | 1 | ug/l | 5000 | 55000 |
| Manganese | 1 | ug/l | 40 | 510 |
| Nickel | 1 | ug/l | 50 | 500 |
| Potassium | 1 | ug/l | 5000 | 52000 |
| Silver | 1 | ug/l | 20 | 98 |
| Sodium | 1 | ug/l | 5000 | 82000 |
| Vanadium | 1 | ug/l | 50 | 500 |
| Zinc | 1 | ug/l | 50 | 550 |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | 500 |
| Arsenic | 1 | ug/l | 2.0 | 520 |
| Beryllium | 1 | ug/l | 1.0 | 510 |
| Cadmium | 1 | ug/l | 2.0 | 490 |
| Cobalt | 1 | ug/l | 2.0 | 460 |
| Lead | 1 | ug/l | 3.0 | 500 |
| Selenium | 1 | ug/l | 10 | 500 |
| Thallium | 1 | ug/l | 2.0 | 500 |

Sample ID: LMW-12 U MSD
Lab#: AC91268-003
Matrix: Aqueous

Collection Date: 5/9/2016
Receipt Date: 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | 9.5 |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | 5700 |
| Barium | 1 | ug/l | 50 | 530 |
| Calcium | 1 | ug/l | 5000 | 78000 |
| Chromium | 1 | ug/l | 50 | 500 |
| Copper | 1 | ug/l | 50 | 510 |
| Iron | 1 | ug/l | 300 | 5800 |
| Magnesium | 1 | ug/l | 5000 | 55000 |
| Manganese | 1 | ug/l | 40 | 520 |
| Nickel | 1 | ug/l | 50 | 500 |
| Potassium | 1 | ug/l | 5000 | 52000 |
| Silver | 1 | ug/l | 20 | 97 |
| Sodium | 1 | ug/l | 5000 | 81000 |
| Vanadium | 1 | ug/l | 50 | 500 |
| Zinc | 1 | ug/l | 50 | 550 |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | 460 |
| Arsenic | 1 | ug/l | 2.0 | 480 |
| Beryllium | 1 | ug/l | 1.0 | 470 |
| Cadmium | 1 | ug/l | 2.0 | 450 |
| Cobalt | 1 | ug/l | 2.0 | 440 |
| Lead | 1 | ug/l | 3.0 | 450 |
| Selenium | 1 | ug/l | 10 | 460 |
| Thallium | 1 | ug/l | 2.0 | 460 |

**Sample ID:** LMW-12 F
**Lab#:** AC91268-004
**Matrix:** Aqueous

**Collection Date:** 5/9/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **28000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **32000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **2.0** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-12 F MS
**Lab#:** AC91268-005
**Matrix:** Aqueous

**Collection Date:** 5/9/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | 10 |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | 5300 |
| Barium | 1 | ug/l | 50 | 560 |
| Calcium | 1 | ug/l | 5000 | 80000 |
| Chromium | 1 | ug/l | 50 | 530 |
| Copper | 1 | ug/l | 50 | 540 |
| Iron | 1 | ug/l | 300 | 5400 |
| Magnesium | 1 | ug/l | 5000 | 57000 |
| Manganese | 1 | ug/l | 40 | 540 |
| Nickel | 1 | ug/l | 50 | 530 |
| Potassium | 1 | ug/l | 5000 | 55000 |
| Silver | 1 | ug/l | 20 | 100 |
| Sodium | 1 | ug/l | 5000 | 84000 |
| Vanadium | 1 | ug/l | 50 | 530 |
| Zinc | 1 | ug/l | 50 | 550 |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | 550 |
| Arsenic | 1 | ug/l | 2.0 | 550 |
| Beryllium | 1 | ug/l | 1.0 | 580 |
| Cadmium | 1 | ug/l | 2.0 | 540 |
| Cobalt | 1 | ug/l | 2.0 | 510 |
| Lead | 1 | ug/l | 3.0 | 550 |
| Selenium | 1 | ug/l | 10 | 530 |
| Thallium | 1 | ug/l | 2.0 | 570 |

Sample ID: LMW-12 F MSD
Lab#: AC91268-006
Matrix: Aqueous

Collection Date: 5/9/2016
Receipt Date: 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | 10 |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | 5300 |
| Barium | 1 | ug/l | 50 | 560 |
| Calcium | 1 | ug/l | 5000 | 81000 |
| Chromium | 1 | ug/l | 50 | 530 |
| Copper | 1 | ug/l | 50 | 540 |
| Iron | 1 | ug/l | 300 | 5400 |
| Magnesium | 1 | ug/l | 5000 | 57000 |
| Manganese | 1 | ug/l | 40 | 540 |
| Nickel | 1 | ug/l | 50 | 520 |
| Potassium | 1 | ug/l | 5000 | 55000 |
| Silver | 1 | ug/l | 20 | 100 |
| Sodium | 1 | ug/l | 5000 | 86000 |
| Vanadium | 1 | ug/l | 50 | 530 |
| Zinc | 1 | ug/l | 50 | 550 |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | 500 |
| Arsenic | 1 | ug/l | 2.0 | 500 |
| Beryllium | 1 | ug/l | 1.0 | 520 |
| Cadmium | 1 | ug/l | 2.0 | 490 |
| Cobalt | 1 | ug/l | 2.0 | 470 |
| Lead | 1 | ug/l | 3.0 | 490 |
| Selenium | 1 | ug/l | 10 | 480 |
| Thallium | 1 | ug/l | 2.0 | 500 |

**Sample ID:** LMW-62 U
**Lab#:** AC91268-007
**Matrix:** Aqueous

**Collection Date:** 5/9/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **1100** |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **28000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **1200** |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **32000** |
| Vanadium | 1 | ug/l | 50 | ND |
| **Zinc** | **1** | **ug/l** | **50** | **67** |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **2.2** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| **Cadmium** | **1** | **ug/l** | **2.0** | **3.3** |
| Cobalt | 1 | ug/l | 2.0 | ND |
| **Lead** | **1** | **ug/l** | **3.0** | **9.0** |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-62 F
**Lab#:** AC91268-008
**Matrix:** Aqueous

**Collection Date:** 5/9/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **27000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **1200** |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **31000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-14 U
**Lab#:** AC91268-009
**Matrix:** Aqueous

**Collection Date:** 5/9/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **4000** |
| **Barium** | **1** | **ug/l** | **50** | **55** |
| **Calcium** | **1** | **ug/l** | **5000** | **7500** |
| **Chromium** | **1** | **ug/l** | **50** | **96** |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **4900** |
| Magnesium | 1 | ug/l | 5000 | ND |
| **Manganese** | **1** | **ug/l** | **40** | **91** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **6300** |
| Vanadium | 1 | ug/l | 50 | ND |
| **Zinc** | **1** | **ug/l** | **50** | **210** |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **3.3** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| **Cadmium** | **1** | **ug/l** | **2.0** | **4.7** |
| **Cobalt** | **1** | **ug/l** | **2.0** | **2.2** |
| **Lead** | **1** | **ug/l** | **3.0** | **32** |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-14 F
**Lab#:** AC91268-010
**Matrix:** Aqueous

**Collection Date:** 5/9/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **1200** |
| **Barium** | **1** | **ug/l** | **50** | **57** |
| **Calcium** | **1** | **ug/l** | **5000** | **11000** |
| **Chromium** | **1** | **ug/l** | **50** | **56** |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **1700** |
| Magnesium | 1 | ug/l | 5000 | ND |
| **Manganese** | **1** | **ug/l** | **40** | **110** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **11000** |
| Vanadium | 1 | ug/l | 50 | ND |
| **Zinc** | **1** | **ug/l** | **50** | **82** |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **2.4** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| **Lead** | **1** | **ug/l** | **3.0** | **9.9** |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-16 U
**Lab#:** AC91268-011
**Matrix:** Aqueous

**Collection Date:** 5/9/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **1200** |
| **Barium** | **1** | **ug/l** | **50** | **180** |
| **Calcium** | **1** | **ug/l** | **5000** | **11000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **1600** |
| Magnesium | 1 | ug/l | 5000 | ND |
| **Manganese** | **1** | **ug/l** | **40** | **700** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **11000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| **Cadmium** | **1** | **ug/l** | **2.0** | **4.2** |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-16 F
**Lab#:** AC91268-012
**Matrix:** Aqueous

**Collection Date:** 5/9/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **370** |
| **Barium** | **1** | **ug/l** | **50** | **160** |
| **Calcium** | **1** | **ug/l** | **5000** | **10000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| **Manganese** | **1** | **ug/l** | **40** | **580** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **11000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| **Cadmium** | **1** | **ug/l** | **2.0** | **4.1** |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-10 U
**Lab#:** AC91268-013
**Matrix:** Aqueous

**Collection Date:** 5/9/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **22000** |
| **Chromium** | **1** | **ug/l** | **50** | **130** |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **18000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| **Cadmium** | **1** | **ug/l** | **2.0** | **53** |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-10 F
**Lab#:** AC91268-014
**Matrix:** Aqueous

**Collection Date:** 5/9/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **22000** |
| **Chromium** | **1** | **ug/l** | **50** | **130** |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **18000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| **Cadmium** | **1** | **ug/l** | **2.0** | **57** |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-5 U
**Lab#:** AC91268-015
**Matrix:** Aqueous

**Collection Date:** 5/10/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **210** |
| **Barium** | **1** | **ug/l** | **50** | **61** |
| **Calcium** | **1** | **ug/l** | **5000** | **18000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **21000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-5 F
**Lab#:** AC91268-016
**Matrix:** Aqueous

**Collection Date:** 5/10/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **68** |
| **Calcium** | **1** | **ug/l** | **5000** | **20000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **23000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-6 U
**Lab#:** AC91268-017
**Matrix:** Aqueous

**Collection Date:** 5/10/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **800** |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **8800** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **990** |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **8700** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| **Lead** | **1** | **ug/l** | **3.0** | **3.1** |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-6 F
**Lab#:** AC91268-018
**Matrix:** Aqueous

**Collection Date:** 5/10/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **7900** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **8800** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-18 U
**Lab#:** AC91268-019
**Matrix:** Aqueous

**Collection Date:** 5/10/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **86** |
| **Calcium** | **1** | **ug/l** | **5000** | **22000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **5400** |
| **Manganese** | **1** | **ug/l** | **40** | **1000** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **25000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-18 F
**Lab#:** AC91268-020
**Matrix:** Aqueous

**Collection Date:** 5/10/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **76** |
| **Calcium** | **1** | **ug/l** | **5000** | **21000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **5200** |
| **Manganese** | **1** | **ug/l** | **40** | **750** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **24000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-19 U
**Lab#:** AC91268-021
**Matrix:** Aqueous

**Collection Date:** 5/10/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **460** |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **16000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **730** |
| **Magnesium** | **1** | **ug/l** | **5000** | **6000** |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **19000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-19F
**Lab#:** AC91268-022
**Matrix:** Aqueous

**Collection Date:** 5/10/2016
**Receipt Date:** 5/10/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **14000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **16000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-001 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-12 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 950 | 1 | 100 | 100 | 05/18/16 | 52408 | W19368G2 | 13 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 100 | 100 | 05/18/16 | 52408 | W19368G2 | 13 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 27000 | 1 | 100 | 100 | 05/18/16 | 52408 | W19368G2 | 13 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 100 | 100 | 05/18/16 | 52408 | W19368G2 | 13 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 100 | 100 | 05/18/16 | 52408 | W19368G2 | 13 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 980 | 1 | 100 | 100 | 05/18/16 | 52408 | W19368G2 | 13 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 100 | 100 | 05/18/16 | 52408 | W19368G2 | 13 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 100 | 100 | 05/18/16 | 52408 | W19368G2 | 13 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/17/16 | 52408 | H19368SW | 14 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 100 | 100 | 05/18/16 | 52408 | W19368G2 | 13 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 100 | 100 | 05/17/16 | 52408 | W19368E2 | 20 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 100 | 100 | 05/18/16 | 52408 | W19368G2 | 13 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 30000 | 1 | 100 | 100 | 05/17/16 | 52408 | W19368E2 | 20 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 100 | 100 | 05/18/16 | 52408 | W19368G2 | 13 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 65 | 1 | 100 | 100 | 05/18/16 | 52408 | W19368G2 | 13 | P | PEICP2A |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-001 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-12 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 20 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | 3.2 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 20 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | 2.0 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 20 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 5.4 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 20 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | 3.0 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 20 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | 11 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 20 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 20 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | 2.5 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 20 | MS | MS2_7500SWA |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-002 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-12 U MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 5700 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 15 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | 530 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 15 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 78000 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 15 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 500 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 15 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 520 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 15 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 5800 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 15 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 55000 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 15 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 510 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 15 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | 9.7 | 1 | 25 | 25 | 05/17/16 | 52408 | H19368SW | 16 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | 500 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 15 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 52000 | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 22 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | 98 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 15 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 82000 | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 22 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | 500 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 15 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 550 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 15 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-002 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-12 U MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 500 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 23 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | 520 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 23 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | 510 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 23 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 490 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 23 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | 460 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 23 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | 500 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 23 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | 500 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 23 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | 500 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 23 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-003 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-12 U MSD | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 5700 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 16 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | 530 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 16 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 78000 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 16 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 500 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 16 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 510 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 16 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 5800 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 16 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 55000 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 16 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 520 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 16 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | 9.5 | 1 | 25 | 25 | 05/17/16 | 52408 | H19368SW | 17 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | 500 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 16 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 52000 | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 23 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | 97 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 16 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 81000 | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 23 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | 500 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 16 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 550 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 16 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-003 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-12 U MSD | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 460 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 24 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | 480 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 24 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | 470 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 24 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 450 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 24 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | 440 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 24 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | 450 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 24 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | 460 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 24 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | 460 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 24 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-004 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-12 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 100 | 100 | 05/17/16 | 52409 | W19369B2 | 18 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 100 | 100 | 05/17/16 | 52409 | W19369B2 | 18 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 28000 | 1 | 100 | 100 | 05/17/16 | 52409 | W19369B2 | 18 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 100 | 100 | 05/17/16 | 52409 | W19369B2 | 18 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 100 | 100 | 05/17/16 | 52409 | W19369B2 | 18 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 100 | 100 | 05/17/16 | 52409 | W19369B2 | 18 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 100 | 100 | 05/17/16 | 52409 | W19369B2 | 18 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 100 | 100 | 05/17/16 | 52409 | W19369B2 | 18 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/19/16 | 52409 | H19369SW | 14 | CV | HGCV1A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 100 | 100 | 05/17/16 | 52409 | W19369B2 | 18 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 100 | 100 | 05/17/16 | 52409 | W19369C2 | 14 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 100 | 100 | 05/17/16 | 52409 | W19369B2 | 18 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 32000 | 1 | 100 | 100 | 05/17/16 | 52409 | W19369C2 | 14 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 100 | 100 | 05/17/16 | 52409 | W19369B2 | 18 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 100 | 100 | 05/17/16 | 52409 | W19369B2 | 18 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-004 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-12 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 100 | 200 | 05/17/16 | 52409 | SW51616B | 20 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | 2.0 | 1 | 100 | 200 | 05/17/16 | 52409 | SW51616B | 20 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 100 | 200 | 05/17/16 | 52409 | SW51616B | 20 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 100 | 200 | 05/17/16 | 52409 | SW51616B | 20 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 100 | 200 | 05/17/16 | 52409 | SW51616B | 20 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 100 | 200 | 05/17/16 | 52409 | SW51616B | 20 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 100 | 200 | 05/17/16 | 52409 | SW51616B | 20 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 100 | 200 | 05/17/16 | 52409 | SW51616B | 20 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-005 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-12 F MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 5300 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 20 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | 560 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 20 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 80000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 20 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 530 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 20 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 540 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 20 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 5400 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 20 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 57000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 20 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 540 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 20 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | 10 | 1 | 25 | 25 | 05/19/16 | 52409 | H19369SW | 16 | CV | HGCV1A |
| 7440-02-0 | Nickel | 50 | 530 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 20 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 55000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 16 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | 100 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 20 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 84000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 16 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | 530 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 20 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 550 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 20 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-005 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-12 F MS | Units: | UG/L | Lab Code: | | Sdg No | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 550 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 23 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | 550 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 23 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | 580 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 23 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 540 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 23 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | 510 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 23 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | 550 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 23 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | 530 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 23 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | 570 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 23 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-006 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-12 F MSD | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 5300 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 21 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | 560 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 21 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 81000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 21 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 530 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 21 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 540 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 21 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 5400 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 21 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 57000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 21 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 540 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 21 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | 10 | 1 | 25 | 25 | 05/19/16 | 52409 | H19369SW | 17 | CV | HGCV1A |
| 7440-02-0 | Nickel | 50 | 520 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 21 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 55000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 17 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | 100 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 21 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 86000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 17 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | 530 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 21 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 550 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 21 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-006 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-12 F MSD | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 500 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 24 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | 500 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 24 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | 520 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 24 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 490 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 24 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | 470 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 24 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | 490 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 24 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | 480 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 24 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | 500 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 24 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-007 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-62 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 1100 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 19 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 19 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 28000 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 19 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 19 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 19 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1200 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 19 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 19 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 19 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/17/16 | 52408 | H19368SW | 18 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 19 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 29 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 19 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 32000 | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 29 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 19 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 67 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 19 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-007 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-62 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 30 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | 2.2 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 30 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 17 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 3.3 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 30 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 17 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | 9.0 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 30 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 30 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 30 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-008 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-62 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 27 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 27 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 27000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 27 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 27 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 27 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1200 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 27 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 27 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 27 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/19/16 | 52409 | H19369SW | 18 | CV | HGCV1A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 27 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 23 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 27 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 31000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 23 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 27 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 27 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-008 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-62 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc. | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 30 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 30 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 30 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 30 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 30 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 30 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 30 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 30 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-009 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-14 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 4000 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 24 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | 55 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 24 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 7500 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 24 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 96 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 24 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 24 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 4900 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 24 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 24 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 91 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 24 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/17/16 | 52408 | H19368SW | 19 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 24 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 30 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 24 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 6300 | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 30 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 24 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 210 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 24 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-009 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-14 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 31 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | 3.3 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 31 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 18 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 4.7 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 31 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | 2.2 | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 18 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | 32 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 31 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 31 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 31 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-010 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-14 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 1200 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 28 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | 57 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 28 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 11000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 28 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 56 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 28 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 28 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1700 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 28 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 28 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 110 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 28 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/19/16 | 52409 | H19369SW | 19 | CV | HGCV1A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 28 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 24 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 28 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 11000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 24 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 28 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 82 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 28 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-010 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-14 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 31 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | 2.4 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 31 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 31 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 31 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 31 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | 9.9 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 31 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 31 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 31 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-011 | % Solid: | 0 | Lab Name: | Veritech | Nras No. | |
| Client Id: | LMW-16 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 1200 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 25 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | 180 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 25 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 11000 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 25 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 25 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 25 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1600 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 25 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 25 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 700 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 25 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/17/16 | 52408 | H19368SW | 22 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 25 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 31 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 25 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 11000 | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 31 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 25 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 25 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-011 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-16 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 32 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 32 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 19 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 4.2 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 32 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 19 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 32 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 32 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 32 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-012 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-16 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 370 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 29 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | 160 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 29 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 10000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 29 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 29 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 29 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 29 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 29 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 580 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 29 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/19/16 | 52409 | H19369SW | 20 | CV | HGCV1A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 29 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 25 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 29 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 11000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 25 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 29 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 29 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-012 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-16 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 32 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 32 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 32 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 4.1 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 32 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 32 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 32 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 32 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 32 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-013 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-10 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 26 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 26 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 22000 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 26 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 130 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 26 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 26 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 26 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 26 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 26 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/17/16 | 52408 | H19368SW | 23 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 26 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 32 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 26 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 18000 | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 32 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 26 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 26 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-013 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-10 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 33 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 33 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 20 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 53 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 33 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 20 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 33 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 33 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 33 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-014 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-10 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52409 | W19369D2 | 13 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 35 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 22000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 35 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 130 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 35 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 35 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 35 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 35 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 35 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/19/16 | 52409 | H19369SW | 23 | CV | HGCV1A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 35 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 31 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 35 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 18000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 31 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 35 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52409 | W19369D2 | 13 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-014 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-10 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 33 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 33 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 33 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 57 | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 33 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 33 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 33 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 33 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 33 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-015 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-5 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 210 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 27 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | 61 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 27 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 18000 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 27 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 27 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 27 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 27 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 27 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 27 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/17/16 | 52408 | H19368SW | 24 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 27 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 33 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 27 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 21000 | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 33 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 27 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 27 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-015 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-5 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 34 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 34 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 21 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 34 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 21 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 34 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 34 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 34 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-016 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-5 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52409 | W19369D2 | 14 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | 68 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 36 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 20000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 36 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 36 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 36 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 36 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 36 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 36 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/19/16 | 52409 | H19369SW | 24 | CV | HGCV1A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 36 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 32 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 36 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 23000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 32 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 36 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52409 | W19369D2 | 14 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-016 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-5 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 34 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 34 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 34 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 34 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 34 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 34 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 34 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 34 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-017 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-6 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 800 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 28 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 28 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 8800 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 28 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 28 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 28 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 990 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 28 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 28 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 28 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/17/16 | 52408 | H19368SW | 25 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 28 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 34 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 28 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 8700 | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 34 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 28 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 28 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-017 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-6 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 35 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 35 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 22 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 35 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 22 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | 3.1 | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 35 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 35 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 35 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-018 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-6 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52409 | W19369D2 | 15 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 37 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 7900 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 37 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 37 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 37 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 37 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 37 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 37 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/19/16 | 52409 | H19369SW | 25 | CV | HGCV1A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 37 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 33 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 37 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 8800 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 33 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 37 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52409 | W19369D2 | 15 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-018 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-6 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 35 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 35 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 35 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 35 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 35 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 35 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 35 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 35 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-019 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-18 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 29 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | 86 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 29 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 22000 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 29 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 29 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 29 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 29 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 5400 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 29 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 1000 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 29 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/17/16 | 52408 | H19368SW | 26 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 29 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 40 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 29 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 25000 | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 40 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 29 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 29 | P | PEICP2A |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-019 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-18 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 36 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 36 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 23 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 36 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 23 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 36 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 36 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 36 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-020 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-18 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52409 | W19369D2 | 16 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | 76 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 38 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 21000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 38 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 38 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 38 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 38 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 5200 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 38 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 750 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 38 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/19/16 | 52409 | H19369SW | 26 | CV | HGCV1A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 38 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 34 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 38 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 24000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 34 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 38 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52409 | W19369D2 | 16 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-020 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-18 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 36 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 36 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 36 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 36 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 36 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 36 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 36 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 36 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-021 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-19 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 460 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 30 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 30 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 16000 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 30 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 30 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 30 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 730 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 30 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 6000 | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 30 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 30 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/17/16 | 52408 | H19368SW | 27 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 30 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 41 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 30 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 19000 | 1 | 50 | 50 | 05/17/16 | 52408 | W19368E2 | 41 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 30 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52408 | W19368G2 | 30 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-021 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-19 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 37 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 37 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 24 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 37 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52408 | SW51716A | 24 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 37 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 37 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 37 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-022 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-19F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52409 | W19369D2 | 17 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 39 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 14000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 39 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 39 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 39 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 39 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 39 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 39 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/19/16 | 52409 | H19369SW | 27 | CV | HGCV1A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 39 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 35 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 39 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 16000 | 1 | 50 | 50 | 05/17/16 | 52409 | W19369C2 | 35 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | W19369B2 | 39 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52409 | W19369D2 | 17 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91268-022 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-19F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/10/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 37 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 37 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 37 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 37 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 37 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 37 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 37 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 37 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

Sample ID: MB 52408 % Solid: 0 Lab Name: Veritech
Client Id: MB 52408 Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 17 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 17 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 17 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 17 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 17 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 17 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 17 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/16/16 | 52408 | SW51616A | 17 | MS | MS2_7500SWA |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

Sample ID: MB 52408 (1) % Solid: 0 Lab Name: Veritech
Client Id: MB 52408 (1) Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

| Cas No | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7440-41-7 | Beryllium | 12 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/17/16 | 52408 | H19368SW | 11 | CV | HGCV2A |
| 7439-98-7 | Molybdenum | 20 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368E2 | 11 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368E2 | 11 | P | PEICPRAD2A |
| 7440-31-5 | Tin | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7440-32-6 | Titanium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52408 | SW19368D2 | 16 | P | PEICP2A |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

Sample ID: MB 52409 % Solid: 0 Lab Name: Veritech
Client Id: MB 52409 Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 17 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 17 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 17 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 17 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 17 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 17 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 17 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/17/16 | 52409 | SW51616B | 17 | MS | MS2_7500SWA |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

Sample ID: MB 52409 (1) % Solid: 0 Lab Name: Veritech
Client Id: MB 52409 (1) Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/19/16 | 52409 | H19369SW | 11 | CV | HGCV1A |
| 7439-98-7 | Molybdenum | 20 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369C2 | 11 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369C2 | 11 | P | PEICPRAD2A |
| 7440-31-5 | Tin | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |
| 7440-32-6 | Titanium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/17/16 | 52409 | SW19369B2 | 15 | P | PEICP2A |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/16/16
Data File: SW51616A
Prep Batch: 52408
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051025

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-233166-10 | CCB V-233166-16 | CCB V-233166-29 | CCB V-233166-42 | CCB V-233166-48 | MB 52408-17 |
|---|---|---|---|---|---|---|
| Antimony | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U |
| Arsenic | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U |
| Beryllium | .5 U | .5 U | .5 U | .5 U | .5 U | 1 U |
| Cadmium | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U |
| Cobalt | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U |
| Lead | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U |
| Selenium | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| Thallium | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/16/16
Data File: SW51616B
Prep Batch: 52409
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051025

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-233166-10 | CCB V-233166-16 | CCB V-233166-29 | CCB V-233166-42 | CCB V-233166-49 | MB 52409-17 |
|---|---|---|---|---|---|---|
| Antimony | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U |
| Arsenic | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U |
| Beryllium | .5 U | .5 U | .5 U | .5 U | .5 U | 1 U |
| Cadmium | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U |
| Cobalt | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U |
| Lead | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U |
| Selenium | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| Thallium | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/17/16
Data File: SW51716A
Prep Batch: 52408
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051025

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-233166-10 | CCB V-233166-16 | CCB V-233166-29 | CCB V-233166-37 |
|---|---|---|---|---|
| Beryllium | .5 U | .5 U | .5 U | .5 U |
| Cobalt | 1 U | 1 U | 1 U | 1 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/17/16
Data File: SW19368D2
Prep Batch: 52408
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051025

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-233038-9 | CCB-14 | CCB-24 | MB 52408 (1)-16 |
|---|---|---|---|---|
| Aluminum | .2 U | .2 U | .2 U | .2 U |
| Barium | .05 U | .05 U | .05 U | .05 U |
| Calcium | 5 U | 5 U | 5 U | 5 U |
| Chromium | .05 U | .05 U | .05 U | .05 U |
| Copper | .05 U | .05 U | .05 U | .05 U |
| Iron | .3 U | .3 U | .3 U | .3 U |
| Magnesium | 5 U | 5 U | 5 U | 5 U |
| Manganese | .04 U | .04 U | .04 U | .04 U |
| Nickel | .05 U | .05 U | .05 U | .05 U |
| Silver | .02 U | .02 U | .02 U | .02 U |
| Vanadium | .05 U | .05 U | .05 U | .05 U |
| Zinc | .05 U | .05 U | .05 U | .05 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/17/16
Data File: SW19368E2
Prep Batch: 52408
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051025

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-233038-8 | CCB-19 | CCB-27 | CCB-39 | CCB-48 | MB 52408 (1)-11 |
|---|---|---|---|---|---|---|
| Potassium | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Sodium | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/17/16
Data File: SW19369B2
Prep Batch: 52409
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051025

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-233038-9 | CCB-14 | CCB-25 | CCB-34 | CCB-44 | MB 52409 (1)-15 |
|---|---|---|---|---|---|---|
| Aluminum | .2 U | .2 U | .2 U | .2 U | .2 U | .2 U |
| Barium | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U |
| Calcium | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chromium | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U |
| Copper | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U |
| Iron | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Magnesium | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Manganese | .04 U | .04 U | .04 U | .04 U | .04 U | .04 U |
| Nickel | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U |
| Silver | .02 U | .02 U | .02 U | .02 U | .02 U | .02 U |
| Vanadium | 05 U | 05 U | 05 U | 05 U | 05 U | 05 U |
| Zinc | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/17/16
Data File: SW19369C2
Prep Batch: 52409
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051025

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-233038-8 | CCB-21 | CCB-30 | CCB-40 | MB 52409 (1)-11 |
|---|---|---|---|---|---|
| Potassium | 5 U | 5 U | 5 U | 5 U | 5 U |
| Sodium | 5 U | 5 U | 5 U | 5 U | 5 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/18/16
Data File: SW19368G2
Prep Batch: 52408
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051025

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-233038-9 | CCB-22 | CCB-35 |
|---|---|---|---|
| Aluminum | .2 U | .2 U | .2 U |
| Barium | .05 U | .05 U | .05 U |
| Calcium | 5 U | 5 U | 5 U |
| Chromium | .05 U | .05 U | .05 U |
| Copper | .05 U | .05 U | .05 U |
| Iron | .3 U | .3 U | .3 U |
| Magnesium | 5 U | 5 U | 5 U |
| Manganese | .04 U | .04 U | .04 U |
| Nickel | .05 U | .05 U | .05 U |
| Silver | .02 U | .02 U | .02 U |
| Vanadium | .05 U | .05 U | .05 U |
| Zinc | .05 U | .05 U | .05 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/18/16
Data File: SW19369D2
Prep Batch: 52409
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051025

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-233038-9 | CCB-22 |
|---|---|---|
| Aluminum | .2 U | .2 U |
| Zinc | .05 U | .05 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/17/16
Data File: H19368SW
Prep Batch: 52408
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051025

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB-10 | CCB-21 | CCB-32 | MB 52408 (1)-11 |
|---|---|---|---|---|
| Mercury | .7 U | .7 U | .7 U | .7 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/19/16
Data File: H19369SW
Prep Batch: 52409
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV1A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051025

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB-10 | CCB-22 | CCB-29 | MB 52409 (1)-11 |
|---|---|---|---|---|
| Mercury | .7 U | .7 U | .7 U | .7 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH: 52408

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCSW MR 52408

| Analyte | BatchId | Data Fil | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 52408 | SW19368 | 18 | SW19368 | 17 | 4.8924 | 4.9783 | 1.7 | | 20 |
| Barium | 52408 | SW19368 | 18 | SW19368 | 17 | 0.4944 | 0.5049 | 2.1 | | 20 |
| Beryllium | 52408 | SW19368 | 18 | SW19368 | 17 | 0.4943 | 0.5056 | 2.3 | | 20 |
| Calcium | 52408 | SW19368 | 18 | SW19368 | 17 | 50.2987 | 50.9801 | 1.3 | | 20 |
| Chromium | 52408 | SW19368 | 18 | SW19368 | 17 | 0.4973 | 0.5074 | 2 | | 20 |
| Copper | 52408 | SW19368 | 18 | SW19368 | 17 | 0.4967 | 0.5056 | 1.8 | | 20 |
| Iron | 52408 | SW19368 | 18 | SW19368 | 17 | 4.9747 | 5.0779 | 2.1 | | 20 |
| Magnesium | 52408 | SW19368 | 18 | SW19368 | 17 | 50.4015 | 51.0500 | 1.3 | | 20 |
| Manganese | 52408 | SW19368 | 18 | SW19368 | 17 | 0.4943 | 0.5050 | 2.1 | | 20 |
| Mercury | 52408 | H19368S | 13 | H19368S | 12 | 10.2700 | 10.0400 | 2.3 | | 20 |
| Nickel | 52408 | SW19368 | 18 | SW19368 | 17 | 0.4978 | 0.5089 | 2.2 | | 20 |
| Potassium | 52408 | SW19368 | 13 | SW19368 | 12 | 48.4935 | 48.8664 | .77 | | 20 |
| Silver | 52408 | SW19368 | 18 | SW19368 | 17 | 0.0967 | 0.0982 | 1.6 | | 20 |
| Sodium | 52408 | SW19368 | 13 | SW19368 | 12 | 49.3895 | 49.8941 | 1 | | 20 |
| Vanadium | 52408 | SW19368 | 18 | SW19368 | 17 | 0.4916 | 0.5003 | 1.7 | | 20 |
| Zinc | 52408 | SW19368 | 18 | SW19368 | 17 | 0.4982 | 0.5075 | 1.8 | | 20 |

TxtQcType: MR Matrix: AQUEOUS SampleID: AC91268-001

| Analyte | BatchId | Data Fil | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 52408 | SW19368 | 14 | SW19368 | 13 | 1.1671 | 0.9498 | 21 | a | 20 |
| Barium | 52408 | SW19368 | 14 | SW19368 | 13 | 0.05U | 0.05U | --- | | 20 |
| Beryllium | 52408 | SW19368 | 14 | SW19368 | 13 | 0.012U | 0.012U | --- | | 20 |
| Calcium | 52408 | SW19368 | 14 | SW19368 | 13 | 28.1978 | 26.6339 | 5.7 | | 20 |
| Chromium | 52408 | SW19368 | 14 | SW19368 | 13 | 0.05U | 0.05U | --- | | 20 |
| Copper | 52408 | SW19368 | 14 | SW19368 | 13 | 0.05U | 0.05U | --- | | 20 |
| Iron | 52408 | SW19368 | 14 | SW19368 | 13 | 1.1687 | 0.9829 | 17 | | 20 |
| Magnesium | 52408 | SW19368 | 14 | SW19368 | 13 | 5U | 5U | --- | | 20 |
| Manganese | 52408 | SW19368 | 14 | SW19368 | 13 | 0.04U | 0.04U | --- | | 20 |
| Mercury | 52408 | H19368S | 15 | H19368S | 14 | .70U | .70U | --- | | 20 |
| Nickel | 52408 | SW19368 | 14 | SW19368 | 13 | 0.05U | 0.05U | --- | | 20 |
| Potassium | 52408 | SW19368 | 21 | SW19368 | 20 | 5U | 5U | --- | | 20 |
| Silver | 52408 | SW19368 | 14 | SW19368 | 13 | 0.02U | 0.02U | --- | | 20 |
| Sodium | 52408 | SW19368 | 21 | SW19368 | 20 | 32.2286 | 30.3250 | 6.1 | | 20 |
| Vanadium | 52408 | SW19368 | 14 | SW19368 | 13 | 0.05U | 0.05U | --- | | 20 |
| Zinc | 52408 | SW19368 | 14 | SW19368 | 13 | 0.0703 | 0.0647 | 8.2 | | 20 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH: 52408

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD Matrix: AQUEOUS SampleID: AC91268-003

| Analyte | BatchId | Data Fil | Seq#: | MS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 52408 | SW19368 | 16 | SW19368 | 15 | 5.7206 | 5.6875 | .58 | 20 |
| Barium | 52408 | SW19368 | 16 | SW19368 | 15 | 0.5284 | 0.5321 | .71 | 20 |
| Beryllium | 52408 | SW19368 | 16 | SW19368 | 15 | 0.4966 | 0.4997 | .63 | 20 |
| Calcium | 52408 | SW19368 | 16 | SW19368 | 15 | 77.7037 | 78.0302 | .42 | 20 |
| Chromium | 52408 | SW19368 | 16 | SW19368 | 15 | 0.5032 | 0.5043 | .23 | 20 |
| Copper | 52408 | SW19368 | 16 | SW19368 | 15 | 0.5127 | 0.5180 | 1 | 20 |
| Iron | 52408 | SW19368 | 16 | SW19368 | 15 | 5.8284 | 5.7837 | .77 | 20 |
| Magnesium | 52408 | SW19368 | 16 | SW19368 | 15 | 54.5490 | 55.2388 | 1.3 | 20 |
| Manganese | 52408 | SW19368 | 16 | SW19368 | 15 | 0.5165 | 0.5142 | .44 | 20 |
| Mercury | 52408 | H19368S | 17 | H19368S | 16 | 9.5390 | 9.7170 | 1.8 | 20 |
| Nickel | 52408 | SW19368 | 16 | SW19368 | 15 | 0.4975 | 0.4954 | .42 | 20 |
| Potassium | 52408 | SW19368 | 23 | SW19368 | 22 | 51.6197 | 52.2476 | 1.2 | 20 |
| Silver | 52408 | SW19368 | 16 | SW19368 | 15 | 0.0973 | 0.0978 | .5 | 20 |
| Sodium | 52408 | SW19368 | 23 | SW19368 | 22 | 80.8702 | 82.0086 | 1.4 | 20 |
| Vanadium | 52408 | SW19368 | 16 | SW19368 | 15 | 0.4982 | 0.5003 | .42 | 20 |
| Zinc | 52408 | SW19368 | 16 | SW19368 | 15 | 0.5506 | 0.5467 | .72 | 20 |

TxtQcType: SD Matrix: AQUEOUS SampleID: AC91268-001

| Analyte | BatchId | Data Fil | Seq#: | NS File | Seq# | DF | Result 1 | Result 2 | %Diff | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 52408 | SW19368 | 18 | SW19368 | 13 | 5 | 0.2667 | 0.9498 | 40 | a | 10 |
| Barium | 52408 | SW19368 | 18 | SW19368 | 13 | 5 | 0.0066 | 0.0323 | 2.1 | | 10 |
| Beryllium | 52408 | SW19368 | 18 | SW19368 | 13 | 5 | 0.0002 | 0.0002 | 353 | c | 10 |
| Calcium | 52408 | SW19368 | 18 | SW19368 | 13 | 5 | 5.2378 | 26.6339 | 1.7 | | 10 |
| Chromium | 52408 | SW19368 | 18 | SW19368 | 13 | 5 | 0.0023 | 0.0097 | 16 | c | 10 |
| Copper | 52408 | SW19368 | 18 | SW19368 | 13 | 5 | 0.0045 | 0.0159 | 42 | c | 10 |
| Iron | 52408 | SW19368 | 18 | SW19368 | 13 | 5 | 0.2031 | 0.9829 | 3.3 | | 10 |
| Magnesium | 52408 | SW19368 | 18 | SW19368 | 13 | 5 | 0.8496 | 4.5309 | 6.2 | | 10 |
| Manganese | 52408 | SW19368 | 18 | SW19368 | 13 | 5 | 0.0030 | 0.0134 | 12 | a | 10 |
| Nickel | 52408 | SW19368 | 18 | SW19368 | 13 | 5 | -0.0004 | 0.0013 | --- | | 10 |
| Potassium | 52408 | SW19368 | 28 | SW19368 | 20 | 5 | 0.9531 | 3.5637 | 34 | a | 10 |
| Silver | 52408 | SW19368 | 18 | SW19368 | 13 | 5 | 0.0001 | 0.0001 | --- | | 10 |
| Sodium | 52408 | SW19368 | 28 | SW19368 | 20 | 5 | 6.0564 | 30.3250 | 0.14 | | 10 |
| Vanadium | 52408 | SW19368 | 18 | SW19368 | 13 | 5 | 0.0000 | 0.0060 | --- | | 10 |
| Zinc | 52408 | SW19368 | 18 | SW19368 | 13 | 5 | 0.0127 | 0.0647 | 1.9 | | 10 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH: 52408

Instrument Type ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 52408

| Analyte | BatchId | Data Fil | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 52408 | SW51616 | 19 | SW51616 | 18 | 248.3000 | 247.0000 | .52 | | 20 |
| Arsenic | 52408 | SW51616 | 19 | SW51616 | 18 | 257.3000 | 253.5000 | 1.5 | | 20 |
| Beryllium | 52408 | SW51616 | 19 | SW51616 | 18 | 268.9000 | 265.1000 | 1.4 | | 20 |
| Cadmium | 52408 | SW51616 | 19 | SW51616 | 18 | 245.2000 | 245.2000 | 0 | | 20 |
| Cobalt | 52408 | SW51616 | 19 | SW51616 | 18 | 241.9000 | 241.6000 | .12 | | 20 |
| Lead | 52408 | SW51616 | 19 | SW51616 | 18 | 244.2000 | 247.3000 | 1.3 | | 20 |
| Selenium | 52408 | SW51616 | 19 | SW51616 | 18 | 251.1000 | 250.5000 | .24 | | 20 |
| Thallium | 52408 | SW51616 | 19 | SW51616 | 18 | 252.9000 | 252.8000 | .04 | | 20 |

TxtQcType: MR Matrix: AQUEOUS SampleID: AC91268-001

| Analyte | BatchId | Data Fil | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 52408 | SW51616 | 21 | SW51616 | 20 | 1.5U | 1.5U | --- | | 20 |
| Arsenic | 52408 | SW51616 | 21 | SW51616 | 20 | 1.2860 | 1.5900 | 21 | b | 20 |
| Beryllium | 52408 | SW51616 | 21 | SW51616 | 20 | 0.5U | 1.0050 | --- | | 20 |
| Cadmium | 52408 | SW51616 | 21 | SW51616 | 20 | 1.7540 | 2.6990 | 42 | b | 20 |
| Cobalt | 52408 | SW51616 | 21 | SW51616 | 20 | 1U | 1.5200 | --- | | 20 |
| Lead | 52408 | SW51616 | 21 | SW51616 | 20 | 5.1450 | 5.7050 | 10 | | 20 |
| Selenium | 52408 | SW51616 | 21 | SW51616 | 20 | 5U | 5U | --- | | 20 |
| Thallium | 52408 | SW51616 | 21 | SW51616 | 20 | 1U | 1.2750 | --- | | 20 |

TxtQcType: MSD Matrix: AQUEOUS SampleID: AC91268-003

| Analyte | BatchId | Data Fil | Seq#: | MS File | Seq# | Result 1 | Result 2 | RPD | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 52408 | SW51616 | 24 | SW51616 | 23 | 229.4000 | 250.0000 | 8.6 | | 20 |
| Arsenic | 52408 | SW51616 | 24 | SW51616 | 23 | 238.2000 | 258.4000 | 8.1 | | 20 |
| Beryllium | 52408 | SW51616 | 24 | SW51616 | 23 | 237.3000 | 254.9000 | 7.2 | | 20 |
| Cadmium | 52408 | SW51616 | 24 | SW51616 | 23 | 225.1000 | 244.6000 | 8.3 | | 20 |
| Cobalt | 52408 | SW51616 | 24 | SW51616 | 23 | 218.9000 | 230.9000 | 5.3 | | 20 |
| Lead | 52408 | SW51616 | 24 | SW51616 | 23 | 224.7000 | 248.1000 | 9.9 | | 20 |
| Selenium | 52408 | SW51616 | 24 | SW51616 | 23 | 230.7000 | 250.8000 | 8.3 | | 20 |
| Thallium | 52408 | SW51616 | 24 | SW51616 | 23 | 229.8000 | 251.7000 | 9.1 | | 20 |

TxtQcType: SD Matrix: AQUEOUS SampleID: AC91268-001

| Analyte | BatchId | Data Fil | Seq#: | NS File | Seq# | DF | Result 1 | Result 2 | %Diff | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 52408 | SW51616 | 22 | SW51616 | 20 | 5 | 0.2546 | 0.9096 | 40 | a | 10 |
| Arsenic | 52408 | SW51616 | 22 | SW51616 | 20 | 5 | 0.1691 | 1.5900 | 47 | c | 10 |
| Beryllium | 52408 | SW51616 | 22 | SW51616 | 20 | 5 | -0.0521 | 1.0050 | --- | | 10 |
| Cadmium | 52408 | SW51616 | 22 | SW51616 | 20 | 5 | 0.2679 | 2.6990 | 50 | a | 10 |
| Cobalt | 52408 | SW51616 | 22 | SW51616 | 20 | 5 | 0.0382 | 1.5200 | --- | | 10 |
| Lead | 52408 | SW51616 | 22 | SW51616 | 20 | 5 | 0.9321 | 5.7050 | 18 | c | 10 |
| Selenium | 52408 | SW51616 | 22 | SW51616 | 20 | 5 | -0.4283 | 0.4921 | --- | | 10 |
| Thallium | 52408 | SW51616 | 22 | SW51616 | 20 | 5 | 0.0112 | 1.2750 | --- | | 10 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH: 52409

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: SD Matrix: AQUEOUS SampleID: AC91268-004

| Analyte | BatchId | Data Fil | Seq#: | NS File | Seq# | DF | Result 1 | Result 2 | %Diff | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 52409 | SW19369 | 26 | SW19369 | 18 | 5 | 0.0315 | 0.0824 | 91 | c | 10 |
| Barium | 52409 | SW19369 | 26 | SW19369 | 18 | 5 | 0.0061 | 0.0292 | 4.3 | | 10 |
| Calcium | 52409 | SW19369 | 26 | SW19369 | 18 | 5 | 5.6489 | 27.8833 | 1.3 | | 10 |
| Chromium | 52409 | SW19369 | 26 | SW19369 | 18 | 5 | 0.0000 | 0.0017 | --- | | 10 |
| Copper | 52409 | SW19369 | 26 | SW19369 | 18 | 5 | 0.0013 | 0.0025 | 154 | c | 10 |
| Iron | 52409 | SW19369 | 26 | SW19369 | 18 | 5 | 0.0030 | 0.0337 | --- | | 10 |
| Magnesium | 52409 | SW19369 | 26 | SW19369 | 18 | 5 | 0.8820 | 4.6931 | 6 | | 10 |
| Manganese | 52409 | SW19369 | 26 | SW19369 | 18 | 5 | 0.0014 | 0.0073 | 4.9 | | 10 |
| Nickel | 52409 | SW19369 | 26 | SW19369 | 18 | 5 | -0.0009 | 0.0001 | --- | | 10 |
| Potassium | 52409 | SW19369 | 22 | SW19369 | 14 | 5 | 1.0073 | 3.7805 | 33 | a | 10 |
| Silver | 52409 | SW19369 | 26 | SW19369 | 18 | 5 | -0.0002 | -0.0001 | --- | | 10 |
| Sodium | 52409 | SW19369 | 22 | SW19369 | 14 | 5 | 6.6224 | 32.2472 | 2.7 | | 10 |
| Vanadium | 52409 | SW19369 | 26 | SW19369 | 18 | 5 | 0.0004 | 0.0041 | --- | | 10 |
| Zinc | 52409 | SW19369 | 26 | SW19369 | 18 | 5 | 0.0052 | 0.0250 | 3.2 | | 10 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

# Project: Liberty

**Client PO:** 60277021

**Report To:** AECOM
100 Red School House Rd.
Suite B-1
Chestnut Ridge, NY 10977

Attn: Paul Kareth

**Received Date:** 5/12/2016

**Report Date:** 5/26/2016

**Deliverables:** NYDOH-CatA

**Lab ID:** AC91321

**Lab Project No:** 6051301



**Robin Cousineau - Quality Assurance Director** OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

NELAP ACCREDITED TNI LABORATORY

Hampton-Clarke
Analytical & Field Services

**THIS CATEGORY "A" REPORT**
**IS NUMBERED FROM**
**1 to 53**

# HC Case Narrative

**Client:** AECOM
**Project:** Liberty

**HC Project:** 6051301

**Hampton-Clarke (HC) received the following samples on 5/12/16:**

| Client ID | HC Sample ID | Matrix | Analysis |
|---|---|---|---|
| LMW-20 | AC91321-001 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-21 | AC91321-002 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-20F | AC91321-003 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-21F | AC91321-004 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LFB-20160510 | AC91321-005 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-3 | AC91321-006 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-3F | AC91321-007 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-2 | AC91321-008 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-2F | AC91321-009 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-4 | AC91321-010 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |
| LMW-4F | AC91321-011 | Aqueous | TAL Metals (6010C & 6020A), Mercury (7470A) |

*This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.*

## Metals Analysis:

The serial dilution for batch 52418 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Robin Cousineau
Quality Assurance Director

Or

Jean Revolus
Laboratory Director

5/27/2016
Date

6051301 0002

# Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

## CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 6051301

Page _____ of _____

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

### Customer Information

1a) Customer: AECOM
Address: 100 Red Schoolhouse Rd, B-1
Chestnut Ridge, NY 10977
1b) Email/Cell/Fax/Ph: Paul.Kareth@aecom.com
1c) Send Invoice to: Paul Kareth
1d) Send Report to: Paul Kareth

### Project Information

2a) Project: LIBERTY
2b) Project Mgr: Paul Kareth
2c) Project Location (City/State): Brentwood NY
2d) Quote/PO # (If Applicable): 60277021

### 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Deliv. |
|---|---|---|
| When Available: | Data Summary | Hazsite/CSV |
| 1 Business Day (100%)* | Results + QC (Waste) | EnviroData |
| 2 Business Days (75%)* | NJ Reduced | Excel - NJ Regulatory |
| 3 Business Days (50%)* | NY Reduced | Excel - NY Regulatory |
| 4 Business Days (35%)* | PA Reduced | Excel - PA Regulatory |
| 5 Business Days (25%) | Full / Category B | EQuIS (specify below): |
| 10 Business Days (Stand.) | Category A | 4-File/EZ/NYS/Reg. 2 or 5 |
| Other: | Electronic (PDF) | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY

Batch # AC91321

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | TAL METALS | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -001 | LMW-20 | GW | 5/10/16 | 1625 | | X | ✓ | | | | | | | 1 | | |
| -002 | LMW-21 | GW | 5/10/16 | 1615 | | X | ✓ | | | | | | | 1 | | |
| -003 | LMW-20F | GW | ↓ | 1627 | | X | ✓ | | | | | | | 1 | | |
| -004 | LMW-21F | GW | ↓ | 1617 | | X | ✓ | | | | | | | 1 | | |
| -005 | LFB-20160510 | FB | 5/10/16 | 1630 | | X | ✓ | | | | | | | 1 | | |
| -006 | LMW-3 | GW | 5/11/16 | 0950 | | X | ✓ | | | | | | | 1 | | |
| -007 | LMW-3F | GW | ↓ | 0953 | | X | ✓ | | | | | | | 1 | | |
| -008 | LMW-2 | ↓ | ↓ | 0945 | | X | ✓ | | | | | | | 1 | | |
| -009 | LMW-2F | ↓ | ↓ | 0947 | | X | ✓ | | | | | | | 1 | | |
| -010 | LMW-4 | | | 1140 | | X | ✓ | | | | | | | 1 | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| | | 5/12/16 | 2:03 PM |
| | | 5/12/16 | 4:58 |
| | | | |
| | | | |

**Additional Notes**

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- ☐ BN or BNA (8270D SIM)
- ☐ VOC (8260C SIM or 8011)
- ☐ SPLP (BN, BNA, Metals)

For NNJ LSRP projects, indicate which standards need to be met:
- ☐ NJDEP GWQS
- ☐ NJDEP SRS
- ☐ NJDEP SPLP
- ☐ Other (specify):

Check if applicable:
- ☐ Project-Specific Reporting Limits
- ☐ High Contaminant Concentrations
- ☐ NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 3.6 / 3.3

11) Sampler (print name): CELESTE FOSTER Date: 5/11/16

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

6051301 0003

# Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

## CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 6051301

Page _____ of _____

### 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Deliv. |
|---|---|---|
| When Available: | Data Summary | Hazsite/CSV |
| 1 Business Day (100%)* | Results + QC (Waste) | EnviroData |
| 2 Business Days (75%)* | NJ Reduced | Excel - NJ Regulatory |
| 3 Business Days (50%)* | NY Reduced | Excel - NY Regulatory |
| 4 Business Days (35%)* | PA Reduced | Excel - PA Regulatory |
| 5 Business Days (25%) | Full / Category B | EQuIS (specify below): |
| 10 Business Days (Stand.) | Category A | 4-File/EZ/NYS/Reg. 2 or 5 |
| Other: | Electronic (PDF) | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

### Customer Information

1a) Customer: AECOM
Address: 100 Red Schoolhouse Rd. B-1 Chestnut Ridge NY 10977
1b) Email/Cell/Fax/Ph: Paul.kareth@aecom.com
1c) Send Invoice to: Paul Kareth
1d) Send Report to: Paul Kareth

### Project Information

2a) Project: LIBERTY
2b) Project Mgr: Paul Kareth
2c) Project Location (City/State): BRENTWOOD NY
2d) Quote/PO # (If Applicable): 60277021

FOR LAB USE ONLY ↓

Batch # AC91321

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | TAL Metals | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -011 | LMW-4F | GW | 5/11/16 | 1143 | | X | ✓ | | | | | | | 1 | | |
| | | | | | | | | | | | | | | | | |
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| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| | | 5/12/16 | 2:03 pm |
| | | 5/12/16 | 4:58 |

**Additional Notes**

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- ☐ BN or BNA (8270D SIM)
- ☐ VOC (8260C SIM or 8011)
- ☐ SPLP (BN, BNA, Metals)

For NNJ LSRP projects, indicate which standards need to be met:
- ☐ NJDEP GWQS
- ☐ NJDEP SRS
- ☐ NJDEP SPLP
- ☐ Other (specify):

Check if applicable:
- ☐ Project-Specific Reporting Limits
- ☐ High Contaminant Concentrations
- ☐ NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.4, 3.3

11) Sampler (print name): CELESTE FOSTER Date: 5/11/16

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

# PROJECT MODIFICATIONS

**Client:** AECOM-CRNY **HC Project #:**6051301

**Project:** Liberty

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aruccatano192.168.1.97
5/13/2016 2:04:40 PM

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Per Paul Kareth, reports should be NYDOH- CATA.

# CONDITION UPON RECEIPT

Batch Number AC91321 Entered By: Frantz

Date Entered 5/13/2016 7:36:00 AM

| | | |
|---|---|---|
| 1 | Yes | Is there a corresponding COC included with the samples? |
| 2 | Yes | Are the samples in a container such as a cooler or Ice chest? |
| 3 | Yes | Are the COC seals intact? |
| 4 | T0054 | <--- Thermometer ID. Please specify the Temperature inside the container (in degC).<br>3.4,3.3 |
| 5 | Yes | Are the samples refrigerated (where required)/have they arrived on ice? |
| 6 | Yes | Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples: |
| 7 | Yes | Are all of the sample bottles intact? If no, specify sample numbers broken/leaking |
| 8 | Yes | Are all of the sample labels or numbers legible? If no specify: |
| 9 | Yes | Do the contents match the COC? If no, specify |
| 10 | Yes | Is there enough sample sent for the analyses listed on the COC? If no, specify: |
| 11 | Yes | Are samples preserved correctly? |
| 12 | Yes | Was temperature blank present (Place comment below if not)? If not was temperature of samples verified? |
| 13 | NA | Other comments ...Specify |
| 14 | NA | Corrective actions (Specify item number and corrective action taken). |

# PRESERVATION DOCUMENT

Batch Number AC91321 Entered By: Frantz

Date Entered 5/13/2016 7:36:00 AM

| Lab# | Container Size | Container/Vial Check | Parameter | Preservative | Preservative Lot# | PH | pH Lot# |
|---|---|---|---|---|---|---|---|
| AC91321-001 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91321-002 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91321-003 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91321-004 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91321-005 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91321-006 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91321-007 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91321-008 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91321-009 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91321-010 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |
| AC91321-011 | 1L | P | METALS | HNO3 | 117003 | 1 | HC57767 |

# Internal Chain of Custody

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AC91321-001 | 05/12/16 16:58 | FRANT | 0 | M | Received |
| AC91321-001 | 05/13/16 07:36 | FRANT | 0 | M | Login |
| AC91321-001 | 05/17/16 04:47 | SP | 1 | A | tdwi-hg |
| AC91321-001 | 05/17/16 04:49 | SP | 1 | A | r12 |
| AC91321-002 | 05/12/16 16:58 | FRANT | 0 | M | Received |
| AC91321-002 | 05/13/16 07:36 | FRANT | 0 | M | Login |
| AC91321-002 | 05/17/16 04:47 | SP | 1 | A | tdwi-hg |
| AC91321-002 | 05/17/16 04:49 | SP | 1 | A | r12 |
| AC91321-003 | 05/12/16 16:58 | FRANT | 0 | M | Received |
| AC91321-003 | 05/13/16 07:36 | FRANT | 0 | M | Login |
| AC91321-003 | 05/17/16 04:47 | SP | 1 | A | tdwi-hg |
| AC91321-003 | 05/17/16 04:49 | SP | 1 | A | r12 |
| AC91321-004 | 05/12/16 16:58 | FRANT | 0 | M | Received |
| AC91321-004 | 05/13/16 07:36 | FRANT | 0 | M | Login |
| AC91321-004 | 05/17/16 04:47 | SP | 1 | A | tdwi-hg |
| AC91321-004 | 05/17/16 04:49 | SP | 1 | A | r12 |
| AC91321-005 | 05/12/16 16:58 | FRANT | 0 | M | Received |
| AC91321-005 | 05/13/16 07:36 | FRANT | 0 | M | Login |
| AC91321-005 | 05/17/16 04:47 | SP | 1 | A | tdwi-hg |
| AC91321-005 | 05/17/16 04:49 | SP | 1 | A | r12 |
| AC91321-006 | 05/12/16 16:58 | FRANT | 0 | M | Received |
| AC91321-006 | 05/13/16 07:36 | FRANT | 0 | M | Login |
| AC91321-006 | 05/17/16 04:47 | SP | 1 | A | tdwi-hg |
| AC91321-006 | 05/17/16 04:49 | SP | 1 | A | r12 |
| AC91321-007 | 05/12/16 16:58 | FRANT | 0 | M | Received |
| AC91321-007 | 05/13/16 07:36 | FRANT | 0 | M | Login |
| AC91321-007 | 05/17/16 04:47 | SP | 1 | A | tdwi-hg |
| AC91321-007 | 05/17/16 04:49 | SP | 1 | A | r12 |
| AC91321-008 | 05/12/16 16:58 | FRANT | 0 | M | Received |
| AC91321-008 | 05/13/16 07:36 | FRANT | 0 | M | Login |
| AC91321-008 | 05/17/16 04:47 | SP | 1 | A | tdwi-hg |
| AC91321-008 | 05/17/16 04:49 | SP | 1 | A | r12 |
| AC91321-009 | 05/12/16 16:58 | FRANT | 0 | M | Received |
| AC91321-009 | 05/13/16 07:36 | FRANT | 0 | M | Login |
| AC91321-009 | 05/17/16 04:47 | SP | 1 | A | tdwi-hg |
| AC91321-009 | 05/17/16 04:49 | SP | 1 | A | r12 |
| AC91321-010 | 05/12/16 16:58 | FRANT | 0 | M | Received |
| AC91321-010 | 05/13/16 07:36 | FRANT | 0 | M | Login |
| AC91321-010 | 05/17/16 04:47 | SP | 1 | A | tdwi-hg |
| AC91321-010 | 05/17/16 04:49 | SP | 1 | A | r12 |
| AC91321-011 | 05/12/16 16:58 | FRANT | 0 | M | Received |
| AC91321-011 | 05/13/16 07:36 | FRANT | 0 | M | Login |
| AC91321-011 | 05/17/16 04:47 | SP | 1 | A | tdwi-hg |
| AC91321-011 | 05/17/16 04:49 | SP | 1 | A | r12 |

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

# Laboratory Chronicle

**Client:** AECOM
**Project:** Liberty

**HC Project #:** 6051301

**Lab#: AC91321-001** **Sample ID: LMW-20**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/17/16 | snezana | EPA 7470A | 5/23/16 13:39 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 17:57 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 20:55 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/19/16 15:10 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/17/16 | snezana | EPA 6020A | 5/18/16 04:55 | PC |

**Lab#: AC91321-002** **Sample ID: LMW-21**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/17/16 | snezana | EPA 7470A | 5/23/16 13:41 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 18:01 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 20:58 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/19/16 15:13 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/17/16 | snezana | EPA 6020A | 5/18/16 05:01 | PC |

**Lab#: AC91321-003** **Sample ID: LMW-20F**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/17/16 | snezana | EPA 7470A | 5/23/16 13:42 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 21:02 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/19/16 15:17 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 18:04 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/17/16 | snezana | EPA 6020A | 5/18/16 05:07 | PC |

**Lab#: AC91321-004** **Sample ID: LMW-21F**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/17/16 | snezana | EPA 7470A | 5/23/16 13:44 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 18:08 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 21:05 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/19/16 15:20 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/17/16 | snezana | EPA 6020A | 5/18/16 05:37 | PC |

# Laboratory Chronicle

**Client:** AECOM
**Project:** Liberty

**HC Project #:** 6051301

**Lab#: AC91321-005** **Sample ID: LFB-20160510**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/17/16 | snezana | EPA 7470A | 5/23/16 13:45 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 18:11 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 21:08 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/19/16 15:46 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/17/16 | snezana | EPA 6020A | 5/18/16 05:43 | PC |

**Lab#: AC91321-006** **Sample ID: LMW-3**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/17/16 | snezana | EPA 7470A | 5/23/16 13:50 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/19/16 15:49 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 21:11 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 18:14 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/17/16 | snezana | EPA 6020A | 5/18/16 05:49 | PC |

**Lab#: AC91321-007** **Sample ID: LMW-3F**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/17/16 | snezana | EPA 7470A | 5/23/16 13:51 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 18:18 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 21:15 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/19/16 15:53 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/17/16 | snezana | EPA 6020A | 5/18/16 05:55 | PC |

**Lab#: AC91321-008** **Sample ID: LMW-2**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/17/16 | snezana | EPA 7470A | 5/23/16 13:53 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 18:33 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 21:27 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/19/16 15:56 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/17/16 | snezana | EPA 6020A | 5/18/16 06:01 | PC |

# Laboratory Chronicle

**Client:** AECOM
**Project:** Liberty

**HC Project #:** 6051301

**Lab#: AC91321-009** **Sample ID: LMW-2F**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/17/16 | snezana | EPA 7470A | 5/23/16 13:54 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/19/16 16:00 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 18:36 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 21:31 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/17/16 | snezana | EPA 6020A | 5/18/16 06:07 | PC |

**Lab#: AC91321-010** **Sample ID: LMW-4**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/17/16 | snezana | EPA 7470A | 5/23/16 13:56 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 18:40 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 21:34 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/19/16 16:03 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/17/16 | snezana | EPA 6020A | 5/18/16 06:13 | PC |

**Lab#: AC91321-011** **Sample ID: LMW-4F**

| Test Code | Prep Method | Prep Date | By | Analytical Method | Analysis Date | By |
|---|---|---|---|---|---|---|
| Mercury (Water) 7470A | EPA 7470A | 05/17/16 | snezana | EPA 7470A | 5/23/16 13:57 | CJA |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 18:43 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/18/16 21:37 | SRB |
| TAL Metals 6010 | 3005&10/3050 | 05/17/16 | snezana | EPA 6010C | 5/19/16 16:07 | SRB |
| TAL Metals 6020 | 3005&10/3050 | 05/17/16 | snezana | EPA 6020A | 5/18/16 06:20 | PC |

# HC Reporting Limit Definitions/Data Qualifiers

## REPORTING DEFINITIONS

**DF =** Dilution Factor

**MDL =** Method Detection Limit

**RL* =** Reporting Limit

**ND =** Not Detected

**RT =** Retention Time

**NA =** Not Applicable

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

## DATA QUALIFIERS

**A-** Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

**B-** Indicates analyte was present in the Method Blank and sample.

**d-** For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

**E-** Indicates the concentration exceeded the upper calibration range of the instrument.

**J-** Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

**R-** Retention Time is out.

**Y-** Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

# HC Report of Analysis

**Client:** AECOM
**Project:** Liberty

**HC Project #:** 6051301

**Sample ID:** LMW-20
**Lab#:** AC91321-001
**Matrix:** Aqueous

**Collection Date:** 5/10/2016
**Receipt Date:** 5/12/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **1200** |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **16000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **7600** |
| **Magnesium** | **1** | **ug/l** | **5000** | **7800** |
| **Manganese** | **1** | **ug/l** | **40** | **70** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **18000** |
| Vanadium | 1 | ug/l | 50 | ND |
| **Zinc** | **1** | **ug/l** | **50** | **1500** |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| **Lead** | **1** | **ug/l** | **3.0** | **5.2** |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-21
**Lab#:** AC91321-002
**Matrix:** Aqueous

**Collection Date:** 5/10/2016
**Receipt Date:** 5/12/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **1400** |
| **Barium** | **1** | **ug/l** | **50** | **73** |
| **Calcium** | **1** | **ug/l** | **5000** | **12000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **2500** |
| **Magnesium** | **1** | **ug/l** | **5000** | **6400** |
| **Manganese** | **1** | **ug/l** | **40** | **96** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **17000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **2.1** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| **Lead** | **1** | **ug/l** | **3.0** | **4.2** |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID: LMW-20F**
**Lab#: AC91321-003**
**Matrix: Aqueous**

**Collection Date: 5/10/2016**
**Receipt Date: 5/12/2016**

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **14000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **7000** |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **17000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-21F
**Lab#:** AC91321-004
**Matrix:** Aqueous

**Collection Date:** 5/10/2016
**Receipt Date:** 5/12/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **68** |
| **Calcium** | **1** | **ug/l** | **5000** | **13000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **6700** |
| **Manganese** | **1** | **ug/l** | **40** | **63** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **19000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LFB-20160510
**Lab#:** AC91321-005
**Matrix:** Aqueous

**Collection Date:** 5/10/2016
**Receipt Date:** 5/12/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| Calcium | 1 | ug/l | 5000 | ND |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| Sodium | 1 | ug/l | 5000 | ND |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-3
**Lab#:** AC91321-006
**Matrix:** Aqueous

**Collection Date:** 5/11/2016
**Receipt Date:** 5/12/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **330** |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **26000** |
| **Chromium** | **1** | **ug/l** | **50** | **97** |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **700** |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **26000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| **Cadmium** | **1** | **ug/l** | **2.0** | **7.9** |
| Cobalt | 1 | ug/l | 2.0 | ND |
| **Lead** | **1** | **ug/l** | **3.0** | **7.2** |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-3F
**Lab#:** AC91321-007
**Matrix:** Aqueous

**Collection Date:** 5/11/2016
**Receipt Date:** 5/12/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **25000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **25000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| **Cadmium** | **1** | **ug/l** | **2.0** | **5.8** |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID: LMW-2**
**Lab#: AC91321-008**
**Matrix: Aqueous**

**Collection Date: 5/11/2016**
**Receipt Date: 5/12/2016**

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **29000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **14000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-2F
**Lab#:** AC91321-009
**Matrix:** Aqueous

**Collection Date:** 5/11/2016
**Receipt Date:** 5/12/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **30000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **15000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-4
**Lab#:** AC91321-010
**Matrix:** Aqueous

**Collection Date:** 5/11/2016
**Receipt Date:** 5/12/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **26000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **26000** |
| Vanadium | 1 | ug/l | 50 | ND |
| **Zinc** | **1** | **ug/l** | **50** | **120** |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **2.1** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| **Cadmium** | **1** | **ug/l** | **2.0** | **24** |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LMW-4F
**Lab#:** AC91321-011
**Matrix:** Aqueous

**Collection Date:** 5/11/2016
**Receipt Date:** 5/12/2016

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.70 | ND |

**TAL Metals 6010**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **26000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **26000** |
| Vanadium | 1 | ug/l | 50 | ND |
| **Zinc** | **1** | **ug/l** | **50** | **110** |

**TAL Metals 6020**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| **Cadmium** | **1** | **ug/l** | **2.0** | **23** |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

# Form1
## Inorganic Analysis Data Sheet

Sample ID: MB 52418 % Solid: 0 Lab Name: Veritech
Client Id: MB 52418 Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 17 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 17 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 17 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 17 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 17 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 17 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 17 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 17 | MS | MS2_7500SWA |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

Sample ID: MB 52418 (1) % Solid: 0 Lab Name: Veritech
Client Id: MB 52418 (1) Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/23/16 | 52418 | H19378SW | 11 | CV | HGCV2A |
| 7439-98-7 | Molybdenum | 20 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378B2 | 11 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378B2 | 11 | P | PEICPRAD2A |
| 7440-31-5 | Tin | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |
| 7440-32-6 | Titanium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | SW19378A2 | 15 | P | PEICP2A |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-001 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-20 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 1200 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 38 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 38 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 16000 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 12 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 38 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 38 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 7600 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 38 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 7800 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 12 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 70 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 38 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/23/16 | 52418 | H19378SW | 26 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 12 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 34 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 12 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 18000 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 34 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 38 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 1500 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 12 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-001 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-20 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 36 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 36 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 36 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 36 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 36 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | 5.2 | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 36 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 36 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 36 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-002 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-21 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 1400 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 39 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | 73 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 39 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 12000 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 13 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 39 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 39 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 2500 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 39 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 6400 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 13 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 96 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 39 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/23/16 | 52418 | H19378SW | 27 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 13 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 35 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 13 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 17000 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 35 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 39 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 13 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-002 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-21 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 37 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | 2.1 | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 37 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 37 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 37 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 37 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | 4.2 | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 37 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 37 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 37 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-003 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-20F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 40 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 40 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 14000 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 14 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 40 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 40 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 40 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 7000 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 14 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 40 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/23/16 | 52418 | H19378SW | 28 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 14 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 36 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 14 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 17000 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 36 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 40 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 14 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-003 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-20F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 38 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 38 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 38 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 38 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 38 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 38 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 38 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 38 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-004 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-21F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 41 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | 68 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 41 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 13000 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 15 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 41 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 41 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 41 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 6700 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 15 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 63 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 41 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/23/16 | 52418 | H19378SW | 29 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 15 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 37 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 15 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 19000 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 37 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 41 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 15 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-004 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-21F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 43 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 43 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 43 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 43 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 43 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 43 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 43 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 43 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-005 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LFB-20160510 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 42 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 42 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 21 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 42 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 42 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 42 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 21 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 42 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/23/16 | 52418 | H19378SW | 30 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 21 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 38 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 21 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 38 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 42 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 21 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-005 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LFB-20160510 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 44 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 44 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 44 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 44 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 44 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 44 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 44 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 44 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-006 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-3 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 330 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 43 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 43 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 26000 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 22 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 97 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 43 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 43 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 700 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 43 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 22 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 43 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/23/16 | 52418 | H19378SW | 33 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 22 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 39 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 22 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 26000 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 39 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 43 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 22 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-006 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-3 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 45 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 45 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 45 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 7.9 | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 45 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 45 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | 7.2 | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 45 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 45 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 45 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-007 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-3F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 44 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 44 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 25000 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 23 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 44 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 44 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 44 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 23 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 44 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/23/16 | 52418 | H19378SW | 34 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 23 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 40 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 23 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 25000 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 40 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 44 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 23 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-007 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-3F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 46 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 46 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 46 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 5.8 | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 46 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 46 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 46 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 46 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 46 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-008 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-2 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 48 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 48 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 29000 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 24 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 48 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 48 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 48 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 24 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 48 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/23/16 | 52418 | H19378SW | 35 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 24 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 44 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 24 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 14000 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 44 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 48 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 24 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-008 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-2 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 47 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 47 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 47 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 47 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 47 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 47 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 47 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 47 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-009 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-2F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 49 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 49 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 30000 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 25 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 49 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 49 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 49 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 25 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 49 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/23/16 | 52418 | H19378SW | 36 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 25 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 45 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 25 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 15000 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 45 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 49 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 25 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-009 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-2F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 48 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 48 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 48 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 48 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 48 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 48 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 48 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 48 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-010 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-4 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 50 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 50 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 26000 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 26 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 50 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 50 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 50 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 26 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 50 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/23/16 | 52418 | H19378SW | 37 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 26 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 46 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 26 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 26000 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 46 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 50 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 120 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 26 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-010 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-4 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 49 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | 2.1 | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 49 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 49 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 24 | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 49 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 49 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 49 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 49 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 49 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-011 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-4F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 51 | P | PEICP2A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 51 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 26000 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 27 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 51 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 51 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 51 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 27 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 51 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.70 | ND | 1 | 25 | 25 | 05/23/16 | 52418 | H19378SW | 38 | CV | HGCV2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 27 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 47 | P | PEICPRAD2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 27 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 26000 | 1 | 50 | 50 | 05/18/16 | 52418 | W19378B2 | 47 | P | PEICPRAD2A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 05/18/16 | 52418 | W19378A2 | 51 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 110 | 1 | 50 | 50 | 05/19/16 | 52418 | W19378C2 | 27 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AC91321-011 | % Solid: | 0 | Lab Name: | Veritech | Nras No: | |
| Client Id: | LMW-4F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/13/2016 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 50 | MS | MS2_7500SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 50 | MS | MS2_7500SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 50 | MS | MS2_7500SWA |
| 7440-43-9 | Cadmium | 2.0 | 23 | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 50 | MS | MS2_7500SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 50 | MS | MS2_7500SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 50 | MS | MS2_7500SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 50 | MS | MS2_7500SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 05/18/16 | 52418 | SW51716B | 50 | MS | MS2_7500SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/18/16
Data File: SW51716B
Prep Batch: 52418
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051301

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-233166-10 | CCB V-233166-16 | CCB V-233166-29 | CCB V-233166-42 | CCB V-233166-54 | MB 52418-17 |
|---|---|---|---|---|---|---|
| Antimony | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U |
| Arsenic | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U |
| Beryllium | .5 U | .5 U | .5 U | .5 U | .5 U | 1 U |
| Cadmium | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U |
| Cobalt | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U |
| Lead | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U |
| Selenium | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| Thallium | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/18/16
Data File: SW19378A2
Prep Batch: 52418
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051301

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-233038-9 | CCB-14 | CCB-25 | CCB-37 | CCB-47 | CCB-56 | MB 52418 (1)-15 |
|---|---|---|---|---|---|---|---|
| Aluminum | .2 U | .2 U | .2 U | .2 U | .2 U | .2 U | .2 U |
| Barium | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U |
| Calcium | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chromium | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U |
| Copper | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U |
| Iron | .3 U | .3 U | .3 U | .3 U | .3 U | .3 U | .3 U |
| Magnesium | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Manganese | .04 U | .04 U | .04 U | .04 U | .04 U | .04 U | .04 U |
| Nickel | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U |
| Silver | .02 U | .02 U | .02 U | .02 U | .02 U | .02 U | .02 U |
| Vanadium | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U |
| Zinc | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U | .05 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/18/16
Data File: SW19378B2
Prep Batch: 52418
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051301

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-233038-8 | CCB-21 | CCB-33 | CCB-43 | CCB-52 | MB 52418 (1)-11 | |
|---|---|---|---|---|---|---|---|
| Potassium | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | |
| Sodium | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/19/16
Data File: SW19378C2
Prep Batch: 52418
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051301

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-233038-9 | CCB-20 | CCB-32 |
|---|---|---|---|
| Calcium | 5 U | 5 U | 5 U |
| Magnesium | 5 U | 5 U | 5 U |
| Nickel | .05 U | .05 U | .05 U |
| Silver | .02 U | .02 U | .02 U |
| Zinc | .05 U | .05 U | .05 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 05/23/16
Data File: H19378SW
Prep Batch: 52418
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 6051301

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB-10 | CCB-21 | CCB-32 | CCB-40 | MB 52418 (1)-11 |
|---|---|---|---|---|---|
| Mercury | .7 U | .7 U | .7 U | .7 U | .7 U |

**Notes:** a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH: 52418

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: SD Matrix: AQUEOUS SampleID: AC91318-017

| Analyte | BatchId | Data Fil | Seq#: | NS File | Seq# | DF | Result 1 | Result 2 | %Diff | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 52418 | SW19378 | 26 | SW19378 | 18 | 5 | 0.0261 | 0.0521 | 150 | c | 10 |
| Barium | 52418 | SW19378 | 26 | SW19378 | 18 | 5 | 0.0057 | 0.0246 | 17 | a | 10 |
| Calcium | 52418 | SW19378 | 26 | SW19378 | 18 | 5 | 2.9575 | 14.2881 | 3.5 | | 10 |
| Chromium | 52418 | SW19378 | 26 | SW19378 | 18 | 5 | 0.0009 | 0.0012 | 270 | c | 10 |
| Copper | 52418 | SW19378 | 26 | SW19378 | 18 | 5 | 0.0010 | 0.0028 | 83 | c | 10 |
| Iron | 52418 | SW19378 | 26 | SW19378 | 18 | 5 | 0.0067 | 0.0214 | --- | | 10 |
| Magnesium | 52418 | SW19378 | 26 | SW19378 | 18 | 5 | 0.5528 | 2.5165 | 9.8 | | 10 |
| Manganese | 52418 | SW19378 | 26 | SW19378 | 18 | 5 | 0.0018 | 0.0061 | 49 | c | 10 |
| Nickel | 52418 | SW19378 | 26 | SW19378 | 18 | 5 | 0.0002 | 0.0004 | --- | | 10 |
| Potassium | 52418 | SW19378 | 22 | SW19378 | 14 | 5 | 0.4459 | 1.9133 | 17 | c | 10 |
| Silver | 52418 | SW19378 | 26 | SW19378 | 18 | 5 | 0.0000 | -0.0003 | --- | | 10 |
| Sodium | 52418 | SW19378 | 22 | SW19378 | 14 | 5 | 2.9638 | 14.7976 | 0.14 | | 10 |
| Vanadium | 52418 | SW19378 | 26 | SW19378 | 18 | 5 | 0.0009 | 0.0020 | 137 | c | 10 |
| Zinc | 52418 | SW19378 | 26 | SW19378 | 18 | 5 | 0.0022 | 0.0058 | 88 | c | 10 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke
Analytical & Field Services

Last Page of Report