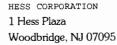
AP-57

Monitoring Report

August, 2012





Donald G. Bull

Senior Specialist Corporate EHS&SR (732) 750-7099 FAX: (732) 352-7792

February 28, 2013

Mr. Glenn Von Gonten New Mexico Oil Conservation District 1220 South St. Francis Drive Santa Fe, NM 87505

VIA: Priority Mail and Delivery Confirmation

Re: Groundwater Monitoring Report

Texaco New Mexico G State Battery #22 AP-57

Unit N, Sec 19, T-19S, R-37E, Lea County

Dear Mr. Von Gonten:

Enclosed please find the Groundwater Monitoring Report for the Texaco New Mexico G State Battery #22 located in Monument, NM.

The report includes pertinent historical site information as well as data collected during groundwater sampling in August 2012.

Please note that Hess proposes to conduct a bail down test to determine liquid phase hydrocarbons (LPH) well yields in monitoring wells MW-9 and MW-10. This information will be used to select the most appropriate LPH recovery method.

If you should have any further questions or require additional information, please feel free to contact the undersigned at 732-750-7099.

Sincerely,

Donald G. Bull Senior Specialist

cc: Rex Meyer, GeoMonitoring Services

Quel 1 5 24

Jim Griswold, New Mexico Oil Conservation Division

TEXACO NEW MEXICO G STATE BATTERY #22

LEA COUNTY, NEW MEXICO

GROUNDWATER MONITORING REPORT SAMPLED AUGUST 2012

Prepared for:



Hess Corporation

One Hess Plaza Woodbridge, New Jersey 07095

Prepared by:

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1.0 INTRODUCTION

The G-LACT Battery #22 site is located north of Monument, New Mexico in southern Lea County. The legal description of the site is Unit Letter N, of Section 19, Township 19 South, and Range 37 East. The site was formerly a tank battery and associated pit operated from the late 1930's until 1991 when it was decommissioned by the Hess Corporation (Hess). The site lies near the bottom of a small draw which contains a small perennial waterway with several depressions that occasionally hold one to two feet (ft) of water. During heavy rainfall, this draw carries water downhill to the southeast towards Monument Draw. It is also likely that this draw is an area of local recharge for the unconfined Ogallala aquifer underlying the site due to the shallow groundwater depth in this area [less that 30 ft below ground surface (bgs)] A regional location map showing the site location is included as **Figure 1**.

On December 5, 2005, the New Mexico Oil Conservation Division (NMOCD) approved a generic work plan submitted by Hess Corporation (Hess) to investigate and remediate locations within the North Monument Grayburg San Andreas Unit (NMGSAU) that have historical contamination. The G-LACT Battery #22 site was included in this generic work plan and site assessment and remediation activities began in May 2006.

May 4, 2006, site assessment and remediation began with the excavation of the battery and associated pit. On May 5, 2006, two soils samples were taken from the areas of excavation that appeared to have hydrocarbon impacted soils. These two soil samples were submitted to a laboratory and analyzed for total petroleum hydrocarbons (TPH) for both gasoline range organics (GRO) and diesel range organics (DRO). The samples were also analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX). The laboratory results did not identify any constituents of concern (COC) above NMOCD guidelines.

On May 11, 2006, three additional soil samples were collected, one to characterize soils for disposal and two additional samples from within the open excavations beneath the battery pad and the associated pit. The soil characterization sample indicated that the soil could not be disposed of via landfarm due to chloride concentrations below 1,000 milligrams per kilogram (mg/kg). The results of the soil sample collected from the excavation beneath the associated pit identified TPH concentrations above NMOCD guidelines, indicating that additional soils would have to be excavated in this area. Due to these results, the excavation area beneath the associated pit was extended an additional three feet. The results of the soil sample collected from the excavation beneath the battery pad identified TPH concentrations were below NMOCD guidelines, indicating that the excavation in the area of the battery pad was complete.

On May 22, 2006, upon completion of the additional excavation, two additional soil samples were collected from the excavation area beneath the associated pit. The analytical results from both of these samples identified TPH concentrations above NMOCD guidelines. At this time, Hess determined that a drilling rig was required to determine if contamination had impacted the groundwater below the associated pit.

Beginning June 6, 2006, drilling and soil sampling in proximity to the associated pit commenced. Two soil borings were drilled (SB-1 and SB-2) and soil samples were submitted from each location. The results indicated hydrocarbon impact from 15 ft bgs to the groundwater at 22 ft bgs. Soil boring SB-1 was backfilled and soil boring SB-2 was converted to monitoring well MW-1. NMOCD was then notified of possible groundwater contamination at the site. NMOCD then directed Hess to submit a Stage 1 Abatement Plan.

On June 8, 2006, MNOCD granted approval to proceed with the work proposed in the Abatement Plan. That same day, soil boring, soils sampling, and monitoring well installation continued at the site. Four soil borings were completed, two of which were converted to monitoring wells.

On June 20, 2006, eleven closing soil samples were collected from the floor of the battery pad excavation and submitted for laboratory analysis. Analysis showed that the sampled were below NMOCD guidelines and the battery pad excavation could be closed and backfilled. From July 18-20, 2006, the battery pad excavation was backfilled with 2,780 cubic yards of soil.

On July 10, 2006, four additional soil borings were drilled in the vicinity of the associated pit excavation, three of which were converted to monitoring wells. At this point, six monitoring wells had been installed and it was decided that the extent of the contamination had been delineated.

On July 11, 2006 NMOCD approved a proposal to backfill the associated pit excavation. On August 10, 2006, the associated pit was backfilled with 2,076 cubic yards of fine soils from 15 ft bgs to 6 ft bgs, 264 cubic yards of clay from 5 ft bgs to 6 ft bgs, and 4,932 cubic yards of topsoil from the ground surface to 5 ft bgs. The extent of both the battery pad excavation and the associated pit excavation can be seen on **Figure 2**.

On August 23-24, 2006, all six monitoring wells were sampled with the exception of monitoring well MW-3 which, upon gauging, contained 0.46 ft of liquid phase hydrocarbon (LPH). Samples from the remaining monitoring wells were analyzed for volatile organic compounds (VOC's), semi-volatile organic compounds (SVOC's), metals, and total dissolved solids (TDS). All analytical results were within NMOCD guidelines.

On November 1, 2006 an addendum was requested by NMOCD for the Stage 1 Abatement Plan which included the installation of additional groundwater monitoring wells.

On December 4, 2008, six groundwater monitoring wells were installed onsite. On December 17, 2008, these six wells were developed and a groundwater sample was collected from each well and analyzed for BTEX, TPH, Polynuclear Aromatic Hydrocarbons (PAH's), TDS, Chloride, Nitrate/Nitrite, Cyanide, and Total Mercury. All

constituents were either non-detect or below NMOCD standards for all samples except for PAH's in monitoring well MW-9 and MW-10.

In July 2009, all 12 monitoring wells onsite were purged and sampled. Analysis included BTEX, Total Metals, SVOC's, Cyanide, TDS, Chloride, Fluoride, Sulfate, Nitrate, Dissolved Calcium, Potassium, Magnesium, and Sodium. All constituents were either non-detect or below NMOCD standards except for Barium in monitoring well MW-9, SVOC's in monitoring wells MW-3 and MW-9, and TDS in monitoring wells MW-5, MW-8, and MW-9.

2.0 MONITORING WELL GAUGING ACTIVITIES

All 12 monitoring wells onsite were gauged on August 22-24, 2012, with the exception of MW-9 and MW-10. MW-9 was gauged on July 24, 2012 and contained 5.05 ft of LPH, MW-10 was gauged on MW-10 and contained 2.70 ft of LPH. The monitoring well locations are shown on **Figure 2**.

The depth to water (DTW) and presence of LPH, if any, were gauged using an oil/water interface probe capable of measuring to the nearest 0.01 ft. The groundwater level measurements were converted to groundwater elevations using the top of monitoring well casing elevations. Groundwater elevations were adjusted for the presence of LPH, as appropriate.

As shown in **Table 1** and on **Figure 3**, groundwater elevations ranged from 3,631.99 feet mean sea level (ft msl) in monitoring well MW-11 to 3,634.38 ft msl in monitoring well MW-7. The interpreted groundwater flow direction is to the southeast, which is consistent with the historical groundwater flow direction.

3.0 MONITORING WELL DEVELOPMENT ACTIVITIES

Due to the long period of time since the previous sampling event, all wells onsite were redeveloped by BBC International, Inc. on July 17-24, 2012 to ensure that the well recharge rates would be sufficient for sampling and that accurate water samples would be obtained. During well development, monitoring well MW-1 had a DTW of 22.50 ft, monitoring well MW-2 had a DTW of 21.61, monitoring well MW-3 was dry, monitoring well MW-4 had a DTW of 26.75 ft, monitoring well MW-5 had a DTW of 29.58 ft, monitoring well MW-6 had a DTW of 23.40 ft, monitoring well MW-7 had a DTW of 28.02 ft, monitoring well MW-8 had a DTW of 25.60 ft, monitoring well MW-9 had a DTW of 29.48 ft, monitoring well MW-10 had a DTW of 25.25 ft, monitoring well MW-11 had a DTW of 26.30 ft, and monitoring well MW-12 had a DTW of 28.60 ft. Between 7 and 35 gallons of groundwater were purged from each monitoring well during well development. Well development data can be found on **Table 3**.

4.0 MONITORING WELL SAMPLING ACTIVITIES

On August 23-24, 2012, all monitoring wells onsite were sampled, except for MW-3 which was dry, MW-9, which contained 5.05 ft of LPH, and MW-10, which contained 2.70 ft of LPH.

Groundwater samples were collected via a downhole pneumatic pump utilizing a low flow purging and sampling method. Air flow into the pump was controlled by a GeoTech Micropurge control panel. Disposable Teflon-lined polypropylene tubing was used at each sampling point and sampling equipment was decontaminated after each use. Each monitoring well was purged and sampled at a rate of 300 milliliters/minute or less. Actual purging and sampling rates can be found in **Table 1**.

Prior to collection of water samples, field readings were taken at each well for pH, Conductivity, Dissolved Oxygen (D.O.), Temperature, Salinity, and Oxygen Redox Potential (ORP). During this sampling event, the pH ranged from 6.29 standard units (s.u.) at monitoring well MW-12 to 6.87 s.u. at monitoring wells MW-1 and MW-7. Conductivity ranged from 1,528 micro-ohms per centimeter squared (µohms/cm²) at monitoring well MW-8 to 498 µohms/cm² at monitoring well MW-2. D.O. ranged from -16.71 mg/L at monitoring well MW-8 to -1.16 mg/L at monitoring well MW-4. The temperature ranged from 16.75°C at monitoring well MW-1 to 24.51 °C at monitoring well MW-12. Salinity ranged from 0.27 parts per thousand in monitoring well MW-2 to 0.85 parts per thousand in monitoring well MW-8. And ORP ranged from 33.1 milliVolts (mV) in monitoring well MW-1 to 104.8 mV in monitoring well MW-12.

Groundwater laboratory analysis included analysis of BTEX tested under EPA Method No. 8260B, PAH analysis under EPA Method No. 8270C, Broad Spectrum Analysis of Total Petroleum Hydrocarbons Gasoline Range Organics (TPH-GRO) under EPA Method No. 8015, and Broad Spectrum Analysis of Total Petroleum Hydrocarbons Diesel Range Organics (TPH-DRO) under EPA Method No. 8015, Chlorides under EPA Method No. 300, and Total Suspended Solids (TSS) under EPA Method No. 2540C.

Laboratory analysis did not identify any constituents of concern in excess of the New Mexico Water Quality Control Commission (NM WQCC) Standards for any of the groundwater samples analyzed.

Benzene concentrations were only identified in two groundwater samples, monitoring well MW-4 with a concentration of 0.74J μ g/L and monitoring well MW-11 with a concentration of 0.28J μ g/L.

Toluene, Ethylbenzene, Xylenes, PAH's, and TPH-GRO (C6-C10) were not detected in any monitoring wells during this sampling event.

TPH-DRO (C10-C28) analysis identified a concentration of 100 mg/L in monitoring well MW-1, 0.0445J mg/L in monitoring well MW-2, 0.686 mg/L in monitoring well MW-4, 0.0841J mg/L in monitoring well MW-5, 0.214 mg/L in monitoring well MW-6, 0.0507J

mg/L in monitoring well MW-7, 0.0932J mg/L in monitoring well MW-8, 0.370 mg/L in monitoring well MW-11, and 0.113 mg/L in monitoring well MW-12.

Chloride analysis identified a concentration of 80.9 mg/L in monitoring well MW-1, 15.9 mg/L in monitoring well MW-2, 182 mg/L in monitoring well MW-4, 187 mg/L in monitoring well MW-5, 95.3 mg/L in monitoring well MW-6, 54.5 mg/L in monitoring well MW-7, 230 mg/L in monitoring well MW-8, 95.1 mg/L in monitoring well MW-11, and 195 mg/L in monitoring well MW-12.

TSS analysis identified a concentration of 54.7 mg/L in monitoring well MW-1, 27.0 mg/L in monitoring well MW-2, 2.7 mg/L in monitoring well MW-4, 16.0 mg/L in monitoring well MW-5, 9.7 mg/L in monitoring well MW-6, 36.3 mg/L in monitoring well MW-7, 24.3 mg/L in monitoring well MW-8, 37.3 mg/L in monitoring well MW-11, and 157 mg/L in monitoring well MW-12. **Table 2** and **Figure 4** provides a summary of the groundwater analytical results. The laboratory analytical report is included in **Appendix A**.

5.0 CONCLUSIONS AND PROPOSALS

Laboratory analysis did not identify any constituents of concern in excess of the EPA National Primary Drinking Water Standards for any of the groundwater samples analyzed. However, monitoring wells MW-9 and MW-10 were gauged with 5.05 and 2.70 ft of LPH, respectively. Based on these results, Hess proposes to conduct a bail down test to determine LPH well yields in monitoring wells MW-9 and MW-10. This information will be used to select the most appropriate LPH recovery method. Bail down testing will be completed during the next groundwater monitoring event, which is scheduled for the 1st quarter in 2013.

Table 1 Groundwater Field Data Summary Texaco NM G State Battery #22 August 23-24, 2012

| | Casing | | Top of Casing | Top of Casing | Groundwater | Top of Casing | Purge pumping | Sampling pump | Amount | LPH Films | 1 | рН | Conductivity | Dissolved | Temperature | Salinity | ORP |
|----------|----------------------|-----------|--------------------|---------------------|---------------------|-----------------------------|------------------|------------------|----------------|---|---------------------------------------|--------------|----------------|-----------------|----------------|--------------|---------------|
| Well No. | Diameter (inches) | Date | to Water (feet) | Elevation (feet) | Elevation (feet) | to Bottom of Well (feet) | Rate (ml/min) | Rate (ml/min) | Purge (gal) | Detected by Interface Probe During Well Development | Field Reading | s.u. | μ ohms/cm² | Oxygen mg/L | ზ | ppt | (mv) |
| MW-1 | 2 | 8/23/2012 | 22.62 | 3,656.47 | 3,633.85 | 31.00 | 230 | 230 | 2.5 | None | Initial Reading | 6.97 | 891 | -11.67 | 20.22 | 0.48 | 21.4 |
| | | | | | | | | | | None | Stabilizad Reading | 6.87 | 868 | -6.73 | 18.75 | 0.48 | 33.1 |
| MW-2 | 2 | 8/23/2012 | 21.73 | 3,654.85 | 3,633.12 | 29.80 | 240 | 240 | 2 | None None | Initial Reading Stabilized Reading | 6.80 6.79 | 599 498 | -14.06 -8.93 | 20.77 20.20 | 0.32 0.27 | 40.1 41.2 |
| | _ | | _ | | | | | | | | | 0.10 | .00 | 0.00 | 20.20 | V.E. | |
| MW-3 | 2 | 8/22/2012 | Dry | 3,656.43 | - | - | - | - | - | - | Initial Reeding | - | - | - | - | - | - |
| | | | | | | | | | | _ | Stabilized Reading | _ | _ | - | - | | - |
| MW-4 | 2 | 8/23/2012 | 26.87 | 3,659.16 | 3,632.29 | 33.45 | 235 | 235 | 2.5 | None | Initial Reeding | 6.82 | 1,207 | 0.48 | 21.82 | 0.64 | 17.4 |
| | | | | | | | | | | None | Stabilized Reading | 6.76 | 1,165 | -1.16 | 21.08 | 0.63 | 37.6 |
| MW-5 | 2 | 8/23/2012 | 29.70 | 3.662.34 | 3.632.64 | 36.00 | 255 | 255 | 2.5 | None | Initial Reading | 6.59 | 1,340 | -9.73 | 25.21 | 0.67 | 45.9 |
| | | | | 0,112.01 | 0,002.07 | 55.55 | 200 | 200 | 2.0 | None | Stabilized Reeding | 8.49 | 1,336 | -7.53 | 23.77 | 0.69 | 88.3 |
| MW-6 | , | 8/23/2012 | 23.51 | 2.055.05 | 0.000.04 | | | | _ | | | | | | | | |
| M44-0 | | 8/23/2012 | 23.51 | 3,855.85 | 3,632.34 | 33.33 | 250 | 250 | 3 | None None | Initial Reading Stabilized Reading | 6.66 6.57 | 928 878 | -16.65 -7.40 | 22.03 21.24 | 0.49 0.47 | 47.9 61.8 |
| | | | | | | | | 1 | | I I I I I I I I I I I I I I I I I I I | Stabilized Reading | 0.37 | 0,0 | -7.40 | 21.24 | 0.47 | 01.0 |
| MW-7 | 2 | 8/24/2012 | 28.08 | 3,662.46 | 3,634.38 | 35.10 | 250 | 250 | 2.5 | None | Initial Reading | 6.80 | 571 | -14.37 | 20.53 | 0.30 | 43.5 |
| | | | | | | | | | | None | Stabilized Reeding | 6.87 | 548 | -8.25 | 20.23 | 0.29 | 39.6 |
| MW-8 | 2 | 8/24/2012 | 25.75 | 3,659.58 | 3,633.83 | 35.35 | 225 | 225 | 2.25 | None | Initial Reading | 6.48 | 1,545 | -19.71 | 20.88 | 0.85 | 50.7 |
| | | | | | , | | | | | None | Stabilized Reading | 6.42 | 1,528 | -16.71 | 20.48 | 0.85 | 47.3 |
| MW-9 | 2 | | | 3,657.98 | | 33.00 | | | | | | | | | | | |
| """ | · | - | _ | 3,007.90 | - | 33.00 | - | - | - | LPH in Well (5.05 feet) Well Not Sampled | Initial Reading Stabilized Reeding | _ | _ | _ | - | _ | = |
| | | | | | | | | | | Trest Not Campion | Stabilized I teading | | _ | - | _ | | - |
| MW-10 | 2 | - | - | 3,655.65 | - | 33.00 | - | - | | LPH in Well (2.70 feet) | Initial Reading | - | _ | - | | - | - |
| | | | i | | | | | | | Well Not Sampled | Stabilized Reading | _ | _ | - | | - | |
| MW-11 | 2 | 8/23/2012 | 24.38 | 3,656.37 | 3,631.99 | 32.60 | 225 | 225 | 2 | None | Initial Reading | 8.80 | 864 | -17.20 | 21.55 | 0.46 | 49.8 |
| İ | İ | | | | ' | | | | _ | None | Stabilized Reading | 6.83 | 861 | -12.42 | 21.00 | 0.46 | 44.4 |
| MW-12 | 2 | 8/23/2012 | 28.72 | 3,861.68 | 3,632.96 | 37.40 | 020 | 000 | • | l | | | | | | . 74 | 1 |
| | - | U123/2012 | 20.72 | 3,001.00 | 3,032.90 | 31,40 | 230 | 230 | 2 | None None | Initial Reading Stabilized Reading | 6.51 6.29 | 1,520 1,459 | -9.04 -6.31 | 25.48 24.51 | 0.75 0.74 | 51.8 104.8 |

NOTE:
LPH = liquid phase hydrocarbon
ml/min = milliliters per minute
gals = gallons
s.u. = standard unit

μ ohms/cm² = micro-ohms per centimeter squared mg/L = miltigrams per liter

°C = degrees Celsius

mv = millivolts
- = reading not taken or not applicable

GeoMonitoring Services

Table 2 Summary of Groundwater Monitoring Results Texaco NM G State Battery #22 August 23-24, 2012

| | Units | MW-1 | MW-2 | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-11 | MW-12 | NM WQCC Standards |
|------------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|-----------|-----------|----------------------|
| Date Sampled | | 8/23/2012 | 8/23/2012 | 8/23/2012 | 8/23/2012 | 8/23/2012 | 8/24/2012 | 8/24/2012 | 8/23/2012 | 8/23/2012 | |
| BTEX (Method 8260B) | | | | | | | | | | | |
| Benzene | μg/L | <0.25 | <0.25 | 0.74J | <0.25 | <0.25 | <0.25 | <0.25 | 0.28J | <0.25 | 5 |
| Toluene | μg/L | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | 750 |
| Ethylbenzene | μg/L | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | 750 |
| Xylenes | µg/L | <0.71 | <0.71 | <0.71 | <0.71 | <0.71 | <0.71 | <0.71 | <0.71 | <0.71 | 620 |
| PAHs (Method 8270C) | | | | | | | | | | | - |
| Acenaphthene | μg/L | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | NONE |
| Acenaphthylene | μg/L | < 0.072 | <0.072 | <0.072 | < 0.072 | <0.072 | < 0.072 | < 0.072 | <0.072 | <0.072 | NONE |
| Anthracene | μg/L | < 0.054 | <0.054 | <0.054 | <0.054 | <0.054 | <0.054 | <0.054 | <0.054 | <0.054 | NONE |
| Benzo(a)anthracene | μ g/L | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | NONE |
| Benzo(a)pyrene | μg/L | <0.065 | < 0.065 | <0.065 | <0.065 | < 0.065 | <0.065 | < 0.065 | < 0.065 | <0.065 | 0.7 |
| Benzo(b)fluoranthene | μ g/L | < 0.061 | < 0.061 | < 0.061 | <0.061 | <0.061 | <0.061 | <0.061 | <0.061 | <0.061 | NONE |
| Benzo(g,h,i)perylene | μg/L | <0.068 | <0.068 | <0.068 | <0.068 | <0.068 | <0.068 | <0.068 | <0.068 | <0.068 | NONE |
| Benzo(k)fluoranthene | μg/L | < 0.056 | < 0.056 | < 0.056 | < 0.056 | <0.056 | < 0.056 | < 0.056 | < 0.056 | <0.056 | NONE |
| Chrysene | μg/L | < 0.045 | <0.045 | <0.045 | <0.045 | < 0.045 | <0.045 | <0.045 | <0.045 | <0.045 | NONE |
| Dibenzo(a,h)anthracene | μg/L | < 0.060 | < 0.060 | < 0.060 | <0.060 | <0.060 | <0.060 | <0.060 | < 0.060 | <0.060 | NONE |
| Fluoranthene | μg/L | <0.046 | <0.046 | <0.046 | <0.046 | <0.046 | <0.046 | <0.046 | <0.046 | <0.046 | NONE |
| Fluorene | μg/L | <0.065 | < 0.065 | < 0.065 | < 0.065 | < 0.065 | <0.065 | <0.065 | < 0.065 | <0.065 | NONE |
| Indeno(1,2,3-cd)pyrene | μg/L | <0.061 | < 0.061 | <0.061 | <0.061 | < 0.061 | <0.061 | <0.061 | < 0.061 | <0.061 | NONE |
| 2-Methylnaphthalene | μg/L | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | NONE |
| Naphthalene | μg/L | < 0.076 | < 0.076 | <0.076 | <0.076 | <0.076 | <0.076 | <0.076 | <0.076 | <0.076 | NONE |
| Phenanthrene | μg/L | <0.076 | <0.076 | < 0.076 | <0.076 | < 0.076 | <0.076 | <0.076 | <0.076 | < 0.076 | NONE |
| Pyrene | μg/L | <0.080 | <0.080 | <0.080 | <0.080 | <0.080 | <0.080 | <0.080 | <0.080 | <0.080 | NONE |
| TPH (Method 8015) | | | | 1 | | | | | | | |
| TPH-GRO (C6-C10) | mg/L | <0.012 | <0.012 | <0.012 | <0.012 | <0.012 | <0.012 | <0.012 | <0.012 | <0.012 | NONE |
| TPH-DRO (C10-C28) | mg/L | 100 | 0.0445J | 0.686 | 0.0841J | 0.214 | 0.0507J | 0.0932J | 0.370 | 0.113 | NONE |
| Chloride | | | | <u> </u> | - | | | | | | |
| Chloride | mg/L | 80.9 | 15.9 | 182 | 187 | 95.3 | 54.5 | 230 | 95.1 | 195 | 250 |
| Total Suspended Solids | | | | | | | | | | | |
| TSS | mg/L | 54.7 | 27.0 | 2.7 | 16.0 | 9.7 | 36.3 | 24.3 | 37.3 | 157 | NONE |

NM WQCC = New Mexico Water Quality Control Commission μg/L = micrograms per Liter

mg/L - milligrams per Liter

J = Indicates an estimated value

NONE = no NM WQCC Standard for this constituent

Table 3
Well Development Data
Texaco NM G State Battery #22
July 17-24, 2012

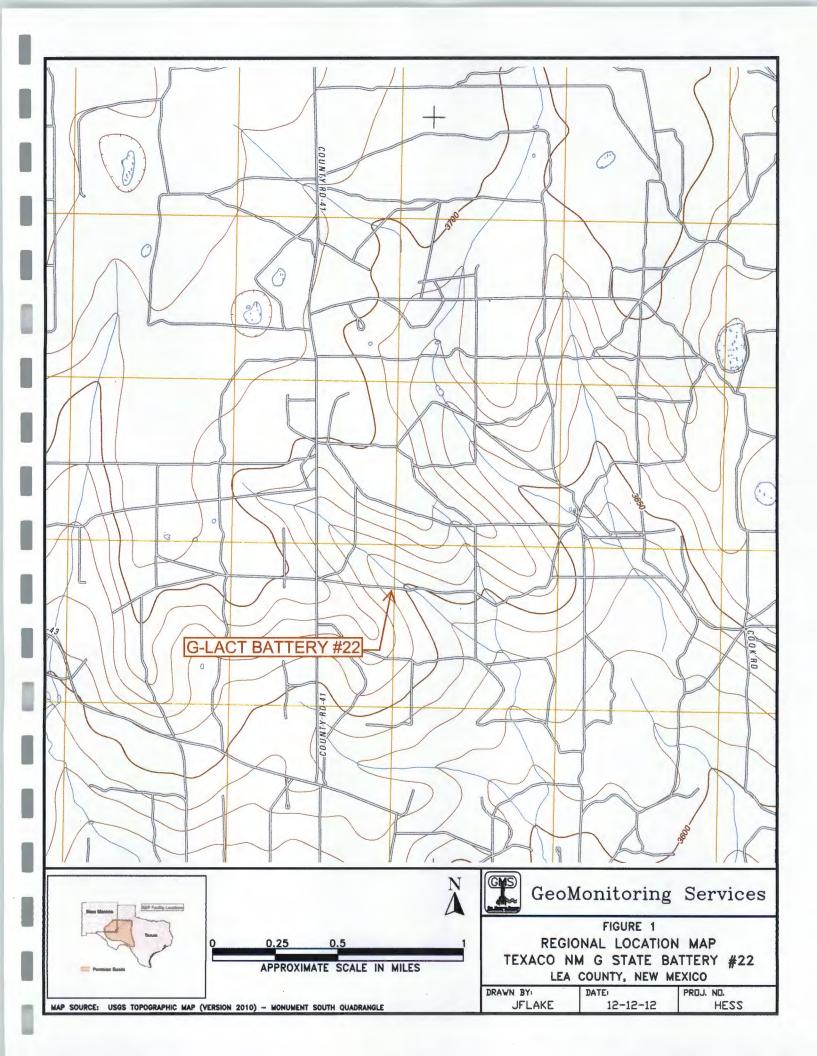
| Well No. | Date | Top of Casing to Water (feet) | Top of Casing Elevation (feet) | Groundwater Elevation (feet) | Top of Casing to Bottom of Well (feet) | Top of Casing to LPH (feet) | LPH Thickness (feet) | Amount Purged (gal) |
|----------|-----------|-------------------------------------|--------------------------------------|------------------------------------|--|-----------------------------------|----------------------------|---------------------------|
| MW-1 | 7/17/2012 | 22.50 | 3,656.47 | 3,633.97 | 31.00 | | 0 | 10 |
| MW-2 | 7/17/2012 | 21.61 | 3,654.85 | 3,633.24 | 29.80 | | 0 | 8 |
| MW-3 | | DRY | 3,656.43 | | | | 0 | |
| MW-4 | 7/17/2012 | 26.75 | 3,659.16 | 3,632.41 | 33.45 | *** | 0 | 10 |
| MW-5 | 7/17/2012 | 29.58 | 3,662.34 | 3632.76 | 36.00 | | 0 | 10 |
| MW-6 | 7/17/2012 | 23.40 | 3,655.85 | 3,632.45 | 33.33 | | 0 | 10 |
| MW-7 | 7/17/2012 | 28.02 | 3,662.46 | 3,634.44 | 35.10 | - | 0 | 8 |
| MW-8 | 7/17/2012 | 25.60 | 3,659.58 | 3,633.98 | 35.35 | - | 0 | 9 |
| MW-9 | 7/24/2012 | 29.48 | 3,657.98 | 3,628.50 | 33.00 | 24.43 | 5.05 | 35 |
| MW-10 | 7/19/2012 | 25.25 | 3,655.65 | 3,630.40 | 33.00 | 22.55 | 2.70 | 11 |
| MW-11 | 7/17/2012 | 26.30 | 3,656.37 | 3,630.07 | 32.60 | | 0 | 7 |
| MW-12 | 7/17/2012 | 28.60 | 3,661.68 | 3,633.08 | 37.40 | - | 0 | 8 |

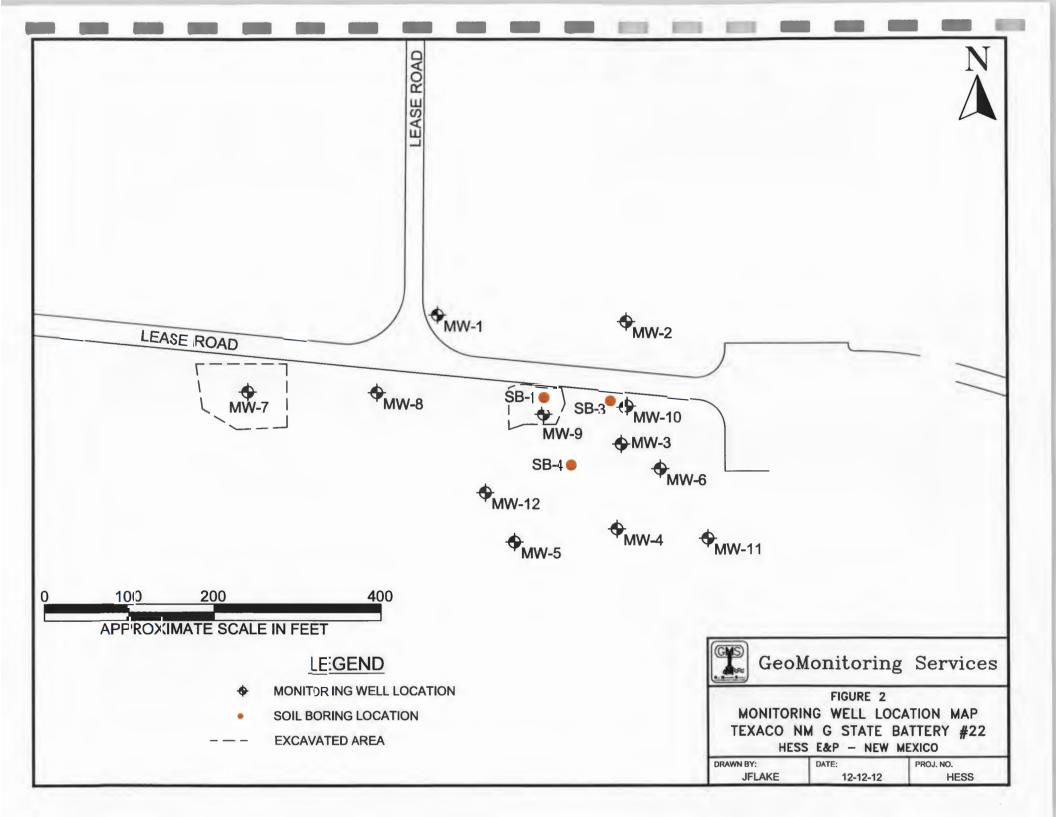
NOTE:

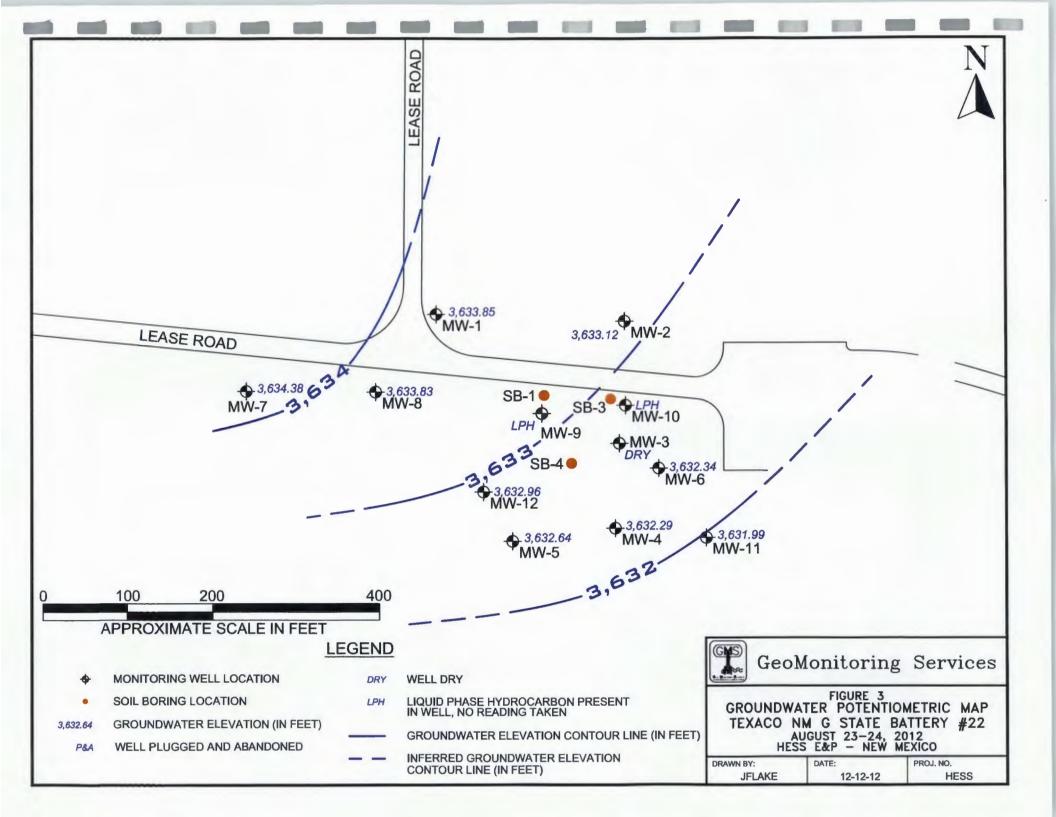
LPH = liquid phase hydrocarbon
-- = not applicable or not taken

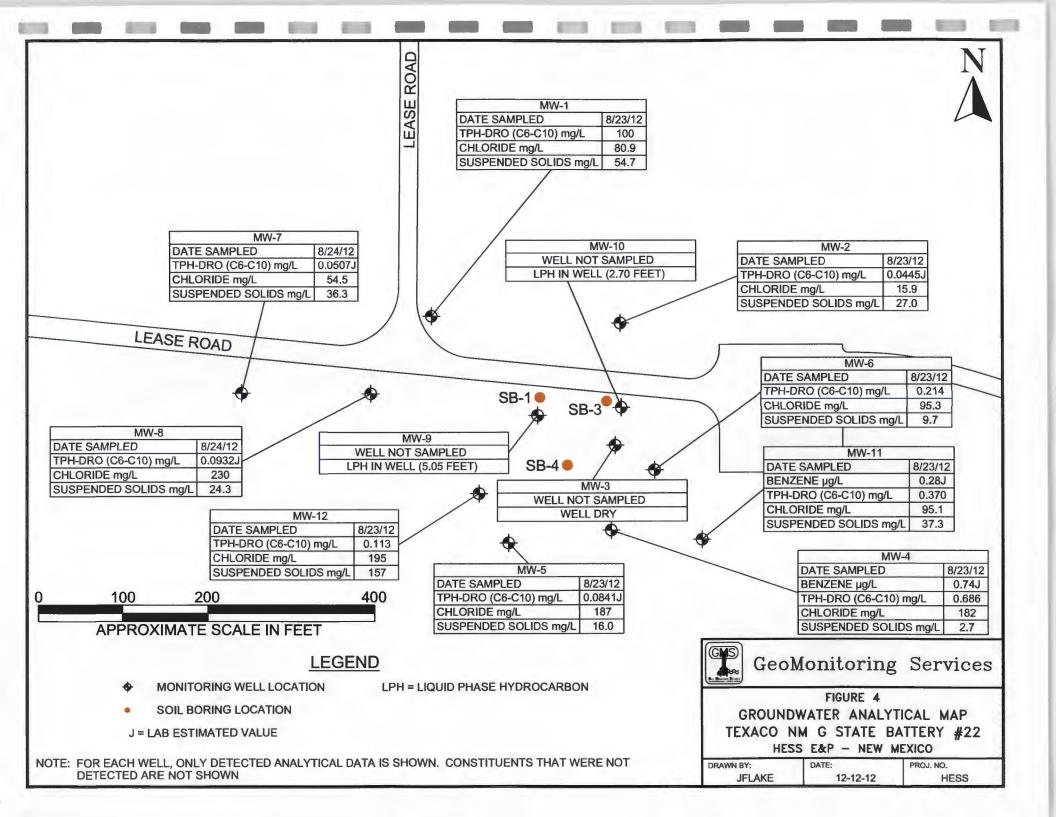
DRY = well dry

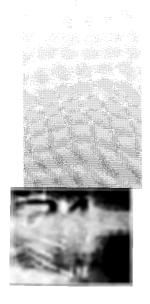
GeoMonitoring Services











Technical Report for

Geo Monitoring Services

G-Lact Battery 22

Accutest Job Number: TC15248

Sampling Dates: 08/23/12 - 08/24/12

Report to:

james@geomon.net

Total number of pages in report: 82



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Richard Rohriguez Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-12-8) AR (11-028-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (211-035)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

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Sample Summary

Geo Monitoring Services

G-Lact Battery 22

Job No:

TC15248

| Sample Number | Collected Date Time By | Mat Received Cod | | Client Sample ID |
|------------------|---------------------------|---------------------|------------------|---------------------|
| TC15248-1 | 08/23/12 09:45 | 08/25/12 AQ | Ground Water | MW-1 |
| TC15248-2 | 08/23/12 10:38 | 08/25/12 AQ | Ground Water | MW-2 |
| TC15248-3 | 08/23/12 13:26 | 08/25/12 AQ | Ground Water | MW-4 |
| TC15248-4 | 08/23/12 15:07 | 08/25/12 AQ | Ground Water | MW-5 |
| TC15248-5 | 08/23/12 14:20 | 08/25/12 AQ | Ground Water | MW-6 |
| TC15248-6 | 08/24/12 09:31 | 08/25/12 AQ | Ground Water | MW-7 % |
| TC15248-7 | 08/24/12 10:30 | 08/25/12 AQ | Ground Water | MW-8 |
| TC15248-8 | 08/23/12 11:38 | 08/25/12 AQ | Ground Water | MW-11 |
| TC15248-9 | 08/23/12 16:06 | 08/25/12 AQ | Ground Water | MW-12 |
| TC15248-10 | 08/23/12 00:00 | 08/25/12 AQ | Trip Blank Water | TRIP BLANK |



Summary of Hits
Job Number: TC15248
Account: Geo Monitoring Services
Project: G-Lact Battery 22
Collected: 08/23/12 thru 08/24/12

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | MQL | SDL | Units | Method |
|---|------------------|----------------------------------|------------------------------|--------------------------------|------------------------------|---|
| TC15248-1 | MW-1 | | N' | | | |
| TPH (C10-C28) Chloride Solids, Total Sus | pended | 0.100 80.9 54.7 | 0.10 5.0 2.0 | 0.031 2.5 1.0 | mg/l mg/l mg/l | SW846 8015 M EPA 300/SW846 9056 SM 2540D |
| TC15248-2 | MW-2 | | | | | |
| TPH (C10-C28) Chloride Solids, Total Sus | pended | 0.0445 J 15.9 27.0 | 0.10 1.0 2.0 | 0.031 0.50 1.0 | mg/l mg/l mg/l | SW846 8015 M EPA 300/SW846 9056 SM 2540D |
| TC15248-3 | MW-4 | | | | | |
| Benzene TPH (C10-C28) Chloride Solids, Total Sus | spended | 0.00074 J 0.686 182 2.7 | 0.0010 0.10 5.0 2.0 | 0.00025 0.031 2.5 1.0 | mg/l mg/l mg/l mg/l | SW846 8260B SW846 8015 M EPA 300/SW846 9056 SM 2540D |
| TC15248-4 | MW-5 | | | | | |
| TPH (C10-C28) Chloride Solids, Total Sus | spended | 0.0841 J 187 16.0 | 0.10 10 2.0 | 0.031 5.0 1.0 | mg/l mg/l mg/l | SW846 8015 M EPA 300/SW846 9056 SM 2540D |
| TC15248-5 | MW-6 | | | | | |
| TPH (C10-C28) Chloride Solids, Total Sus | spended | 0.214 95.3 9.7 | 0.10 5.0 2.0 | 0.031 2.5 1.0 | mg/l mg/l mg/l | SW846 8015 M EPA 300/SW846 9056 SM 2540D |
| TC15248-6 | MW-7 | | | | | |
| TPH (C10-C28) Chloride Solids, Total Sus | spended | 0.0507 J 54.5 36.3 | 0.10 5.0 2.0 | 0.031 2.5 1.0 | mg/l mg/l mg/l | SW846 8015 M EPA 300/SW846 9056 SM 2540D |
| TC15248-7 | MW-8 | | | | | |
| TPH (C10-C28) Chloride Solids, Total Sus | spended | 0.0932 J 230 24.3 | 0.10 10 2.0 | 0.031 5.0 1.0 | mg/l mg/l mg/l | SW846 8015 M EPA 300/SW846 9056 SM 2540D |

Summary of Hits Job Number: TC15248

Account:

Project:

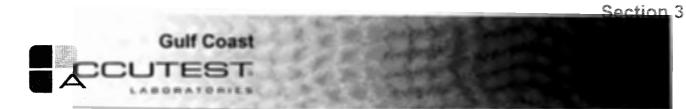
Collected:

Geo Monitoring Services G-Lact Battery 22 08/23/12 thru 08/24/12

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | MQL | SDL | Units | Method |
|---|------------------|------------------------------------|------------------------------|--------------------------------|------------------------------|---|
| TC15248-8 | MW-11 | | | | | |
| Benzene TPH (C10-C28) Chloride Solids, Total Sus | pended | 0.00028 J 0.370 95.1 37.3 | 0.0010 0.10 5.0 2.0 | 0.00025 0.031 2.5 1.0 | mg/l mg/l mg/l mg/l | SW846 8260B SW846 8015 M EPA 300/SW846 9056 SM 2540D |
| TC15248-9 | MW-12 | | | | | |
| TPH (C10-C28) Chloride Solids, Total Sus | pended | 0.113 195 157 | 0.10 10 2.0 | 0.031 5.0 1.0 | mg/l mg/l mg/l | SW846 8015 M EPA 300/SW846 9056 SM 2540D |

TC15248-10 TRIP BLANK

No hits reported in this sample.





| Sample Results | | ed pro | ga i | , per | -1 |
|--------------------|--|-----------|------|-------|----|
| | | | | | |
| Report of Analysis | | | | | |
| | | | | | |



Report of Analysis

Page 1 of 1

Client Sample ID: MW-1

Lab Sample ID: TC15248-1

Matrix: Method: AQ - Ground Water SW846 8260B

Project: G-Lact Battery 22

Date Sampled: 08/23/12 Date Received: 08/25/12

Percent Solids: n/a

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 Z028430.D 1 08/28/12 EM n/a n/a VZ3736

Run #2

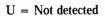
Purge Volume

Run #1 5.0 ml

Run #2

Purgeable Aromatics

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|--|---|--|--------------------------------------|--|------------------------------|---|
| 71-43-2 108-88-3 100-41-4 1330-20-7 | Benzene Toluene Ethylbenzene Xylene (total) | 0.00025 U 0.00026 U 0.00025 U 0.00071 U | 0.0010 0.0010 0.0010 0.0030 | 0.00025 0.00026 0.00025 0.00071 | mg/l mg/l mg/l mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 1868-53-7 17060-07-0 2037-26-5 460-00-4 | Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene | 99% 88% 99% 109% | | 79-122% 75-121% 87-119% 80-133% | | |



SDL - Sample Detection Limit

N = Indicates presumptive evidence of a compound





E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B \,=\, Indicates \ analyte \ found \ in \ associated \ method \ blank$

Lab Sample ID: Matrix:

TC15248-1

AQ - Ground Water

Date Sampled: 08/23/12 Date Received:

08/25/12

Method:

SW846 8270C BY SIM SW846 3510C

Percent Solids: n/a

Project:

G-Lact Battery 22

| | File ID | DF | Analyzed | Ву | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------|----|-----------|------------|------------------|
| Run #1 | V12426.D | 1 | 08/31/12 | GJ | 08/30/12 | OP24920 | EV695 |

Run #2

Initial Volume Final Volume

Run #1 990 ml 1.0 ml

Run #2

BN PAH List

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|-----------|------------------------|------------|---------|----------|-------|---|
| 83-32-9 | Acenaphthene | 0.000042 U | 0.00020 | 0.000042 | mg/l | |
| 208-96-8 | Acenaphthylene | 0.000072 U | 0.00020 | 0.000072 | mg/l | |
| 120-12-7 | Anthracene | 0.000054 U | 0.00020 | 0.000054 | mg/l | |
| 56-55-3 | Benzo(a)anthracene | 0.000042 U | 0.00020 | 0.000042 | mg/l | |
| 50-32-8 | Benzo(a) pyrene | 0.000065 U | 0.00020 | 0.000065 | mg/l | |
| 205-99-2 | Benzo(b)fluoranthene | 0.000061 U | 0.00020 | 0.000061 | mg/l | |
| 191-24-2 | Benzo(g,h,i)perylene | 0.000068 U | 0.00020 | 0.000068 | mg/l | |
| 207-08-9 | Benzo(k)fluoranthene | 0.000056 U | 0.00020 | 0.000056 | mg/l | |
| 218-01-9 | Chrysene | 0.000045 U | 0.00020 | 0.000045 | mg/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.000060 U | 0.00020 | 0.000060 | mg/l | |
| 206-44-0 | Fluoranthene | 0.000046 U | 0.00020 | 0.000046 | mg/l | |
| 86-73-7 | Fluorene | 0.000065 U | 0.00020 | 0.000065 | mg/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.000061 U | 0.00020 | 0.000061 | mg/l | |
| 91-57-6 | 2-Methylnaphthalene | 0.00012 U | 0.00020 | 0.00012 | mg/l | |
| 91-20-3 | Naphthalene | 0.000076 U | 0.00020 | 0.000076 | mg/l | |
| 85-01-8 | Phenanthrene | 0.000076 U | 0.00020 | 0.000076 | mg/l | |
| 129-00-0 | Pyrene | 0.000080 U | 0.00020 | 0.000080 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 62% | | 17-131% | | |
| 321-60-8 | 2-Fluorobiphenyl | 67% | | 15-137% | | |
| 1718-51-0 | Terphenyl-d14 | 111% | | 10-160% | | |

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Lab Sample ID:

TC15248-1

Matrix:

AQ - Ground Water

Method:

SW846 8015

Project: G-Lact Battery 22 Date Sampled: Date Received:

08/23/12 08/25/12

Percent Solids: n/a

File ID Analyzed

Run #1

DF HH0011731.D

By 09/04/12 LT Prep Date n/a

Prep Batch n/a

Analytical Batch

GHH636

Run #2

Purge Volume 5.0 ml

Compound

TPH-GRO (C6-C10)

Run #1

Run #2

CAS No.

Result

MQL

0.050

Run# 2

SDL

Units

Q

mg/l

CAS No. Surrogate Recoveries

460-00-4 4-Bromofluorobenzene 98-08-8 aaa-Trifluorotoluene

79% 85%

0.012 U

Run# 1

52-127% 58-141%

0.012

Limits

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Lab Sample ID:

TC15248-1

Matrix:

AQ - Ground Water

Method:

SW846 8015 M SW846 3510C

Project:

G-Lact Battery 22

Date Sampled:

08/23/12

Date Received: 08/25/12

Percent Solids: n/a

Analytical Batch File ID DF Analyzed Ву Prep Date Prep Batch CC227581.D 08/30/12 FO 08/28/12 OP24916 GCC1393 Run #1 1 Run #2

Initial Volume 990 ml

Run #1 Run #2

CAS No.

Final Volume 1.0 ml

Compound

TPH (C10-C28)

Result

0.100

Run#1

MQL

SDL

Units

Q

0.10 0.031

CAS No. Surrogate Recoveries

Run# 2

Limits

mg/l

84%

84-15-1 o-Terphenyl

37-135%

N = Indicates presumptive evidence of a compound



U = Not detected

B = Indicates analyte found in associated method blank

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID: MW-1

Lab Sample ID: Matrix:

TC15248-1

AQ - Ground Water

Date Sampled: 08/23/12

Date Received: 08/25/12 Percent Solids: n/a

Project:

G-Lact Battery 22

General Chemistry

| Analyte | Result | MQL | SDL | Units | DF | Analyzed By | Method |
|----------|--------------|-----|-----|--------------|---------|----------------------------------|--------------------------------|
| Chloride | 80.9 54.7 | 5.0 | 2.5 | mg/l mg/l | 10 1 | 08/31/12 23:02 ES 08/30/12 DP | EPA 300/SW846 9056 SM 2540D |

MQL = Method Quantitation Limit SDL = Sample Detection Limit

U = Indicates a result < SDLJ = Indicates a result > = SDL but < MQL



Lab Sample ID:

TC15248-2

Matrix:

AQ - Ground Water

Method:

SW846 8260B G-Lact Battery 22 Date Sampled: 08/23/12 Date Received: 08/25/12

Percent Solids: n/a

Project:

File ID Z028434.D DF 1

Analyzed Ву 08/28/12 EM

Report of Analysis

Prep Date n/a

Prep Batch n/a

Analytical Batch

VZ3736

Run #1 Run #2

Purge Volume

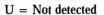
5.0 ml

Run #1

Run #2

Purgeable Aromatics

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|--|---|--|--------------------------------------|--|------------------------------|---|
| 71-43-2 108-88-3 100-41-4 1330-20-7 | Benzene Toluene Ethylbenzene Xylene (total) | 0.00025 U 0.00026 U 0.00025 U 0.00071 U | 0.0010 0.0010 0.0010 0.0030 | 0.00025 0.00026 0.00025 0.00071 | mg/l mg/l mg/l mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 1868-53-7 17060-07-0 2037-26-5 460-00-4 | Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene | 102% 89% 96% 110% | | 79-122% 75-121% 87-119% 80-133% | | |



SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Lab Sample ID:

TC15248-2

Matrix:

AQ - Ground Water

SW846 8270C BY SIM SW846 3510C

Date Sampled: 08/23/12 Date Received: 08/25/12

Percent Solids: n/a

Method: Project:

G-Lact Battery 22

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------|----|-----------|------------|------------------|
| Run #1 | V12427.D | 1 | 08/31/12 | GJ | 08/30/12 | OP24920 | EV695 |

Run #2

Initial Volume Final Volume

Run #1 990 ml

1.0 ml

Run #2

BN PAH List

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|-----------|------------------------|------------|---------|----------|-------|---|
| 83-32-9 | Acenaphthene | 0.000042 U | 0.00020 | 0.000042 | mg/l | |
| 208-96-8 | Acenaphthylene | 0.000072 U | 0.00020 | 0.000072 | mg/l | |
| 120-12-7 | Anthracene | 0.000054 U | 0.00020 | 0.000054 | mg/l | |
| 56-55-3 | Benzo(a)anthracene | 0.000042 U | 0.00020 | 0.000042 | mg/l | |
| 50-32-8 | Benzo(a)pyrene | 0.000065 U | 0.00020 | 0.000065 | mg/l | |
| 205-99-2 | Benzo(b)fluoranthene | 0.000061 U | 0.00020 | 0.000061 | mg/l | |
| 191-24-2 | Benzo(g,h,i)perylene | 0.000068 U | 0.00020 | 0.000068 | mg/l | |
| 207-08-9 | Benzo(k)fluoranthene | 0.000056 U | 0.00020 | 0.000056 | mg/l | |
| 218-01-9 | Chrysene | 0.000045 U | 0.00020 | 0.000045 | mg/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.000060 U | 0.00020 | 0.000060 | mg/l | |
| 206-44-0 | Fluoranthene | 0.000046 U | 0.00020 | 0.000046 | mg/l | |
| 86-73-7 | Fluorene | 0.000065 U | 0.00020 | 0.000065 | mg/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.000061 U | 0.00020 | 0.000061 | mg/l | |
| 91-57-6 | 2-Methylnaphthalene | 0.00012 U | 0.00020 | 0.00012 | mg/l | |
| 91-20-3 | Naphthalene | 0.000076 U | 0.00020 | 0.000076 | mg/l | |
| 85-01-8 | Phenanthrene | 0.000076 U | 0.00020 | 0.000076 | mg/l | |
| 129-00-0 | Pyrene | 0.000080 U | 0.00020 | 0.000080 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 71% | | 17-131% | | |
| 321-60-8 | 2-Fluorobiphenyl | 73% | | 15-137% | | |
| 1718-51-0 | Terphenyl-d14 | 98% | | 10-160% | | |

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: MW-2 Lab Sample ID:

TC15248-2

Matrix: Method: AQ - Ground Water

SW846 8015

G-Lact Battery 22

Date Sampled: 08/23/12

Date Received: 08/25/12 Percent Solids: n/a

Q

Run #1 Run #2

Project:

File ID DF HH0011732.D 1

Analyzed 09/04/12

Ву LT n/a

Prep Date

Analytical Batch Prep Batch n/a

GHH636

Purge Volume 5.0 ml

Run #1 Run #2

CAS No.

460-00-4

98-08-8

SDL

Units

TPH-GRO (C6-C10)

Compound

0.012 U Run#1

Result

0.050 Run# 2

MQL

0.012

Limits

mg/l

CAS No. Surrogate Recoveries

> 4-Bromofluorobenzene aaa-Trifluorotoluene

78% 86%

52-127% 58-141%

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

FO

Client Sample ID: MW-2

File ID

CC227582.D

Lab Sample ID:

TC15248-2

AQ - Ground Water

Date Sampled: Date Received:

08/23/12 08/25/12

Matrix: Method:

SW846 8015 M SW846 3510C

Percent Solids: n/a

Project:

G-Lact Battery 22

DF

1

Prep Date Prep Batch Analytical Batch 08/28/12 OP24916 GCC1393

Run #1 Run #2

Final Volume Initial Volume Run #1 990 ml 1.0 ml

Run #2

Result MQL SDL Units CAS No. Compound Q

Analyzed

08/30/12

0.0445 0.10 0.031 TPH (C10-C28) mg/l J

CAS No. Surrogate Recoveries Run#1 Run#2 Limits

86% 37-135% 84-15-1 o-Terphenyl

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID: MW-2

Lab Sample ID:

TC15248-2

Matrix:

Project:

AQ - Ground Water

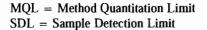
Date Sampled: 08/23/12

Date Received: 08/25/12 Percent Solids: n/a

G-Lact Battery 22

General Chemistry

| Analyte | Result | MQL | SDL | Units | DF | Analyzed By Method |
|-------------------------------------|--------------|-----|-------------|--------------|----|--|
| Chloride Solids, Total Suspended | 15.9 27.0 | 1.0 | 0.50 1.0 | mg/l mg/l | 2 | 09/04/12 12:29 RA EPA 300/SW846 9056 08/30/12 DP SM 2540D |



U = Indicates a result < SDL

J = Indicates a result > = SDL but < MQL



Report of Analysis

Ву

EM

Page 1 of 1

Client Sample ID: MW-4

Lab Sample ID:

TC15248-3

Matrix:

AQ - Ground Water

Method:

SW846 8260B

Date Sampled: 08/23/12

n/a

Date Received: 08/25/12 Percent Solids: n/a

Project:

G-Lact Battery 22

DF

1

Prep Batch

Prep Date

n/a

Analytical Batch VZ3736

Run #1 Run #2

Purge Volume

File ID

5.0 ml

Z028435.D

Run #1

Run #2

Purgeable Aromatics

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|--|---|--|--------------------------------------|--|------------------------------|---|
| 71-43-2 108-88-3 100-41-4 1330-20-7 | Benzene Toluene Ethylbenzene Xylene (total) | 0.00074 0.00026 U 0.00025 U 0.00071 U | 0.0010 0.0010 0.0010 0.0030 | 0.00025 0.00026 0.00025 0.00071 | mg/l mg/l mg/l mg/l | J |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 1868-53-7 17060-07-0 2037-26-5 460-00-4 | Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene | 108% 91% 100% 115% | | 79-122% 75-121% 87-119% 80-133% | | |

Analyzed

08/28/12

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

GJ

Client Sample ID: MW-4 Lab Sample ID:

TC15248-3

08/30/12

Date Sampled: 08/23/12

Matrix:

AQ - Ground Water

DF

1

Date Received: 08/25/12

Method:

SW846 8270C BY SIM SW846 3510C

Percent Solids: n/a

Project:

G-Lact Battery 22

Prep Date Prep Batch

OP24920

Analytical Batch EV695

Run #1 Run #2

Initial Volume Final Volume

980 ml

File ID

V12428.D

1.0 ml

Run #1 Run #2

BN PAH List

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|-----------|------------------------|-------------|---------|----------|-------|---|
| 83-32-9 | Acenaphthene | 0.000042 U | 0.00020 | 0.000042 | mg/l | |
| 208-96-8 | Acenaphthylene | 0.000073 U | 0.00020 | 0.000073 | mg/l | |
| 120-12-7 | Anthracene | 0.000055 U | 0.00020 | 0.000055 | mg/l | |
| 56-55-3 | Benzo(a)anthracene | 0.000042 U | 0.00020 | 0.000042 | mg/l | |
| 50-32-8 | Benzo(a)pyrene | 0.000066 U | 0.00020 | 0.000066 | mg/l | |
| 205-99-2 | Benzo(b)fluoranthene | 0.000062 U | 0.00020 | 0.000062 | mg/l | |
| 191-24-2 | Benzo(g,h,i)perylene | 0.000069 U | 0.00020 | 0.000069 | mg/l | |
| 207-08-9 | Benzo(k)fluoranthene | 0.000057 U | 0.00020 | 0.000057 | mg/l | |
| 218-01-9 | Chrysene | 0.000045 U | 0.00020 | 0.000045 | mg/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.000061 U | 0.00020 | 0.000061 | mg/l | |
| 206-44-0 | Fluoranthene | 0.000047 U | 0.00020 | 0.000047 | mg/l | |
| 86-73-7 | Fluorene | 0.000066 U | 0.00020 | 0.000066 | mg/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.000062 U | 0.00020 | 0.000062 | mg/l | |
| 91-57-6 | 2-Methylnaphthalene | 0.00012 U | 0.00020 | 0.00012 | mg/l | |
| 91-20-3 | Naphthalene | 0.000077 U | 0.00020 | 0.000077 | mg/l | |
| 85-01-8 | Phenanthrene | 0.000077 U | 0.00020 | 0.000077 | mg/l | |
| 129-00-0 | Pyrene | 0.000081 U | 0.00020 | 0.000081 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 67% | | 17-131% | | |
| 321-60-8 | 2-Fluorobiphenyl | 72 % | | 15-137% | | |
| 1718-51-0 | Terphenyl-d14 | 96% | | 10-160% | | |
| | | | | | | |

Analyzed

08/31/12

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Lab Sample ID:

TC15248-3

Matrix:

AQ - Ground Water

DF

1

Method: Project:

SW846 8015 G-Lact Battery 22 Date Sampled: Date Received: 08/25/12

08/23/12

Percent Solids: n/a

Run #1

File ID HH0011735.D

Analyzed 09/04/12

By LT Prep Date n/a

Prep Batch n/a

Analytical Batch

GHH636

Run #2

Purge Volume

Run #1

CAS No.

Run #2

Compound

 $5.0 \, ml$

Result

MQL

0.050

SDL 0.012 Units Q

mg/l

TPH-GRO (C6-C10)

0.012 U Run#1

Run#2

Limits

460-00-4 98-08-8

CAS No.

4-Bromofluorobenzene aaa-Trifluorotoluene

Surrogate Recoveries

78% 84%

52-127%

58-141%

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



U = Not detected

Report of Analysis

By

FO

Client Sample ID: MW-4

File ID

CC227586.D

Lab Sample ID: Matrix:

TC15248-3

Date Sampled: Date Received:

08/23/12 08/25/12

Method:

AQ - Ground Water SW846 8015 M SW846 3510C

Percent Solids: n/a

Project:

G-Lact Battery 22

DF

Prep Date Prep Batch Analytical Batch 08/29/12 OP24916 GCC1393

Run #1 Run #2

Final Volume Initial Volume Run #1 990 ml 1.0 ml

Run #2

CAS No. Compound Result MQL **SDL** Units Q

Analyzed

08/30/12

TPH (C10-C28) 0.686 0.10 0.031mg/l

Run# 2 Limits CAS No. Surrogate Recoveries Run# 1

84-15-1 o-Terphenyl 91% 37-135%

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Client Sample ID: MW-4

Lab Sample ID:

TC15248-3 AQ - Ground Water Date Sampled: 08/23/12 Date Received: 08/25/12

Project:

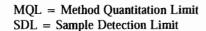
Matrix:

G-Lact Battery 22

Percent Solids: n/a

General Chemistry

| Analyte | Result | MQL | SDL | Units | DF | Analyzed By | Method |
|-------------------------|--------|-----|-----|-------|----|-------------|--------------------|
| Chloride | 182 | 5.0 | 2.5 | mg/l | 10 | | EPA 300/SW846 9056 |
| Solids, Total Suspended | 2.7 | 2.0 | 1.0 | mg/l | 1 | | SM 2540D |



U = Indicates a result < SDL

J = Indicates a result > = SDL but < MQL



Report of Analysis

Page 1 of 1

Client Sample ID: MW-5

Lab Sample ID:

TC15248-4

Matrix:

AQ - Ground Water

Method: Project:

SW846 8260B

G-Lact Battery 22

Date Sampled: 08/23/12

Date Received: 08/25/12

Percent Solids: n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | Z028436.D | 1 | 08/28/12 | EM | n/a | n/a | VZ3736 |
| Run #2 | | | | | | | |

Purge Volume

 $5.0 \, ml$

Run #1

Run #2

Purgeable Aromatics

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|--|---|--|--------------------------------------|--|------------------------------|---|
| 71-43-2 108-88-3 100-41-4 1330-20-7 | Benzene Toluene Ethylbenzene Xylene (total) | 0.00025 U 0.00026 U 0.00025 U 0.00071 U | 0.0010 0.0010 0.0010 0.0030 | 0.00025 0.00026 0.00025 0.00071 | mg/l mg/l mg/l mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 1868-53-7 17060-07-0 2037-26-5 460-00-4 | Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene | 105% 90% 97% 111% | | 79-122% 75-121% 87-119% 80-133% | | |



SDL - Sample Detection Limit

N = Indicates presumptive evidence of a compound



E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Report of Analysis

Page 1 of 1

Client Sample ID: MW-5 Lab Sample ID: TC15248-4

Matrix: AO - Ground Water

Date Sampled: 08/23/12 Date Received: 08/25/12

Method:

SW846 8270C BY SIM SW846 3510C

Percent Solids: n/a

Project:

G-Lact Battery 22

| | File ID | DF | Analyzed | Ву | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------|----|-----------|------------|------------------|
| Run #1 | V12433.D | 1 | 08/31/12 | GJ | 08/30/12 | OP24920 | EV695 |

Run #2

Initial Volume Final Volume

980 ml Run #1

1.0 ml

Run #2

BN PAH List

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|-----------|------------------------|------------|---------|----------|-------|---|
| 83-32-9 | Acenaphthene | 0.000042 U | 0.00020 | 0.000042 | mg/l | |
| 208-96-8 | Acenaphthylene | 0.000073 U | 0.00020 | 0.000073 | mg/l | |
| 120-12-7 | Anthracene | 0.000055 U | 0.00020 | 0.000055 | mg/l | |
| 56-55-3 | Benzo(a)anthracene | 0.000042 U | 0.00020 | 0.000042 | mg/l | |
| 50-32-8 | Benzo(a)pyrene | 0.000066 U | 0.00020 | 0.000066 | mg/l | |
| 205-99-2 | Benzo(b) fluoranthene | 0.000062 U | 0.00020 | 0.000062 | mg/l | |
| 191-24-2 | Benzo(g,h,i)perylene | 0.000069 U | 0.00020 | 0.000069 | mg/l | |
| 207-08-9 | Benzo(k)fluoranthene | 0.000057 U | 0.00020 | 0.000057 | mg/l | |
| 218-01-9 | Chrysene | 0.000045 U | 0.00020 | 0.000045 | mg/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.000061 U | 0.00020 | 0.000061 | mg/l | |
| 206-44-0 | Fluoranthene | 0.000047 U | 0.00020 | 0.000047 | mg/l | |
| 86-73-7 | Fluorene | 0.000066 U | 0.00020 | 0.000066 | mg/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.000062 U | 0.00020 | 0.000062 | mg/l | |
| 91-57-6 | 2-Methylnaphthalene | 0.00012 U | 0.00020 | 0.00012 | mg/l | |
| 91-20-3 | Naphthalene | 0.000077 U | 0.00020 | 0.000077 | mg/l | |
| 85-01-8 | Phenanthrene | 0.000077 U | 0.00020 | 0.000077 | mg/l | |
| 129-00-0 | Pyrene | 0.000081 U | 0.00020 | 0.000081 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 61% | | 17-131% | | |
| 321-60-8 | 2-Fluorobiphenyl | 61% | | 15-137% | | |
| 1718-51-0 | Terphenyl-d14 | 99% | | 10-160% | | |

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



| Client Sample ID: | MW-5 |
|-------------------|-------|
| I ah Sample ID: | TC152 |

TC15248-4

Date Sampled: 08/23/12 Date Received: 08/25/12

Matrix: Method: AQ - Ground Water SW846 8015

Percent Solids: n/a

Project:

G-Lact Battery 22

| File ID | DF | Analyzed | Ву | Prep Date | Prep Batch | Analytical Batch |
|-------------|----|----------|----|-----------|------------|------------------|
| HH0011736.D | 1 | 09/04/12 | LT | n/a | n/a | GHH636 |

58-141%

Run #1 Run #2

Purge Volume

aaa-Trifluorotoluene

Run #1

5.0 ml

Run #2

98-08-8

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|----------|----------------------|---------|--------|---------|-------|---|
| | TPH-GRO (C6-C10) | 0.012 U | 0.050 | 0.012 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 460-00-4 | 4-Bromofluorobenzene | 79% | | 52-127% | | |

87%

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Report of Analysis

Page 1 of 1

Client Sample ID: MW-5

Lab Sample ID: TC15248-4

Matrix: Method: Project: AO - Ground Water

SW846 8015 M SW846 3510C

G-Lact Battery 22

Date Sampled: 08/23/12 Date Received: 08/25/12

Percent Solids: n/a

| | File ID | DF | Analyzed | Ву | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | CC227587.D | 1 | 08/30/12 | FO | 08/29/12 | OP24916 | GCC1393 |
| Dun #2 | | | | | | | |

0.10

0.031

mg/l

J

Run #2

Initial Volume Final Volume Run #1 990 ml 1.0 ml

TPH (C10-C28)

Run #2

CAS No. Compound Result MQL SDL Units Q

0.0841

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

84-15-1 o-Terphenyl 84% 37-135%

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID: MW-5

Lab Sample ID:

TC15248-4

Matrix:

AQ - Ground Water

Date Sampled: 08/23/12 Date Received: 08/25/12

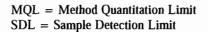
Percent Solids: n/a

Project:

G-Lact Battery 22

General Chemistry

| Analyte | Result | MQL | SDL | Units | DF | Analyzed By Method |
|-------------------------|--------|-----|-----|-------|----|--------------------------------------|
| Chloride | 187 | 10 | 5.0 | mg/l | 20 | 09/04/12 12:46 RA EPA 300/SW846 9056 |
| Solids, Total Suspended | 16.0 | 2.0 | 1.0 | mg/l | 1 | 08/30/12 DP SM 2540D |



U = Indicates a result < SDL

J = Indicates a result > = SDL but < MQL



By

EM

Client Sample ID: MW-6

File ID

5.0 ml

Z028437.D

Lab Sample ID:

TC15248-5

Matrix:

AQ - Ground Water

Method:

SW846 8260B

Date Sampled: 08/23/12

Date Received: 08/25/12

Percent Solids: n/a

Project:

G-Lact Battery 22

DF

1

Prep Date n/a

Prep Batch n/a

Analytical Batch

VZ3736

Run #1 Run #2

Purge Volume

Run #1

Run #2

Purgeable Aromatics

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|--|---|--|--------------------------------------|--|------------------------------|---|
| 71-43-2 108-88-3 100-41-4 1330-20-7 | Benzene Toluene Ethylbenzene Xylene (total) | 0.00025 U 0.00026 U 0.00025 U 0.00071 U | 0.0010 0.0010 0.0010 0.0030 | 0.00025 0.00026 0.00025 0.00071 | mg/l mg/l mg/l mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 1868-53-7 17060-07-0 2037-26-5 460-00-4 | Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene | 103% 89% 95% 110% | | 79-122% 75-121% 87-119% 80-133% | | |

Analyzed

08/28/12

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

GJ

08/30/12

Client Sample ID: MW-6

File ID

V12434.D

Lab Sample ID:

TC15248-5

AQ - Ground Water

DF

1

Date Sampled: 08/23/12

Matrix: Method:

SW846 8270C BY SIM SW846 3510C

Analyzed

08/31/12

Date Received: 08/25/12 Percent Solids: n/a

Project:

G-Lact Battery 22

Prep Date Prep Batch

OP24920

Analytical Batch EV695

Run #1 Run #2

> Final Volume Initial Volume

Run #1 990 ml 1.0 ml

Run #2

BN PAH List

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|-----------|------------------------|------------|---------|----------|-------|---|
| 83-32-9 | Acenaphthene | 0.000042 U | 0.00020 | 0.000042 | mg/l | |
| 208-96-8 | Acenaphthylene | 0.000072 U | 0.00020 | 0.000072 | mg/l | |
| 120-12-7 | Anthracene | 0.000054 U | 0.00020 | 0.000054 | mg/l | |
| 56-55-3 | Benzo(a)anthracene | 0.000042 U | 0.00020 | 0.000042 | mg/l | |
| 50-32-8 | Benzo(a)pyrene | 0.000065 U | 0.00020 | 0.000065 | mg/l | |
| 205-99-2 | Benzo(b)fluoranthene | 0.000061 U | 0.00020 | 0.000061 | mg/l | |
| 191-24-2 | Benzo(g,h,i)perylene | 0.000068 U | 0.00020 | 0.000068 | mg/l | |
| 207-08-9 | Benzo(k)fluoranthene | 0.000056 U | 0.00020 | 0.000056 | mg/l | |
| 218-01-9 | Chrysene | 0.000045 U | 0.00020 | 0.000045 | mg/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.000060 U | 0.00020 | 0.000060 | mg/l | |
| 206-44-0 | Fluoranthene | 0.000046 U | 0.00020 | 0.000046 | mg/l | |
| 86-73-7 | Fluorene | 0.000065 U | 0.00020 | 0.000065 | mg/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.000061 U | 0.00020 | 0.000061 | mg/l | |
| 91-57-6 | 2-Methylnaphthalene | 0.00012 U | 0.00020 | 0.00012 | mg/l | |
| 91-20-3 | Naphthalene | 0.000076 U | 0.00020 | 0.000076 | mg/l | |
| 85-01-8 | Phenanthrene | 0.000076 U | 0.00020 | 0.000076 | mg/l | |
| 129-00-0 | Pyrene | 0.000080 U | 0.00020 | 0.000080 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 73% | | 17-131% | | |
| 321-60-8 | 2-Fluorobiphenyl | 75% | | 15-137% | | |
| 1718-51-0 | Terphenyl-d14 | 95% | | 10-160% | | |

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: MW-6

Lab Sample ID:

TC15248-5

Matrix:

AQ - Ground Water

Method: Project:

SW846 8015

Date Sampled: Date Received: 08/25/12

08/23/12

Percent Solids: n/a

G-Lact Battery 22

1

File ID DF

Analyzed By 09/04/12 LT Prep Date n/a

Prep Batch n/a

Analytical Batch

GHH636

Run #1 Run #2

Purge Volume

HH0011737.D

Run #1

5.0 ml

Run #2

CAS No. Compound Result

MQL

SDL

Units Q

TPH-GRO (C6-C10)

0.012 U

Run# 1

0.050

Run# 2

0.012

Limits

mg/l

CAS No. Surrogate Recoveries

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

77% 82%

52-127% 58-141%

N = Indicates presumptive evidence of a compound



U = Not detected

B = Indicates analyte found in associated method blank

Client Sample ID: MW-6

Lab Sample ID:

TC15248-5

AQ - Ground Water

SW846 8015 M SW846 3510C

G-Lact Battery 22

Date Sampled:

08/23/12 Date Received: 08/25/12

Percent Solids: n/a

| | File ID | DF | Analyzed | Ву | Prep Date | Prep Batch | Analytical Batch | |
|--------|------------|----|----------|----|-----------|------------|------------------|--|
| Run #1 | CC227588.D | 1 | 08/30/12 | FO | 08/29/12 | OP24916 | GCC1393 | |
| Run #2 | | | | | | | | |

Matrix:

Method:

Project:

Initial Volume Run #1 990 ml

Final Volume 1.0 ml

Run #2

84-15-1

CAS No. Compound Result

MQL

SDL

Units Q

TPH (C10-C28)

o-Terphenyl

0.214

Run#1

91%

0.10

Run#2

0.031

mg/l

CAS No. Surrogate Recoveries

37-135%

Limits

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



U = Not detected

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID: MW-6

Lab Sample ID:

TC15248-5

Matrix:

AQ - Ground Water

Date Sampled: 08/23/12

Date Received: 08/25/12

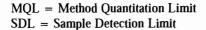
Project:

G-Lact Battery 22

Percent Solids: n/a

General Chemistry

| Analyte | Result | MQL | SDL | Units | DF | Analyzed By | Method |
|-------------------------|--------|-----|-----|-------|----|-------------------|--------------------|
| Chloride | 95.3 | 5.0 | 2.5 | mg/l | 10 | 09/01/12 00:10 ES | EPA 300/SW846 9056 |
| Solids, Total Suspended | 9.7 | 2.0 | 1.0 | mg/l | 1 | 08/30/12 DP | SM 2540D |



U = Indicates a result < SDL

J = Indicates a result > = SDL but < MQL



ယ တ

Client Sample ID: MW-7

Lab Sample ID:

TC15248-6

Matrix:

AQ - Ground Water

DF

1

Method:

SW846 8260B

Date

Date Sampled: 08/24/12

Date Received: 08/25/12

Percent Solids: n/a

Project:

G-Lact Battery 22

Analytical Batch

Run #1

Z028438.D

08/28/12

Analyzed

By Pre EM n/a

Prep Date Pr

Prep Batch n/a

VZ3736

Run #2

Purge Volume

Run #1

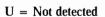
 $5.0 \, ml$

File ID

Run #2

Purgeable Aromatics

| CAS No. | Compound | Result MQL | SDL Units Q |
|--|--|--|--|
| 71-43-2 108-88-3 100-41-4 1330-20-7 | Benzene Toluene Ethylbenzene Xylene (total) | 0.00025 U 0.0010 0.00026 U 0.0010 0.00025 U 0.0010 0.00071 U 0.0030 | 0.00025 mg/l 0.00026 mg/l 0.00025 mg/l 0.00071 mg/l |
| CAS No. | Surrogate Recoveries | Run# 1 Run# 2 | Limits |
| 1868-53-7 17060-07-0 2037-26-5 460-00-4 | Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene | 109% 90% 97% | 79-122% 75-121% 87-119% 80-133% |



SDL - Sample Detection Limit

N = Indicates presumptive evidence of a compound



E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

3,6

Client Sample ID: MW-7

Lab Sample ID: TC15248-6
Matrix: AQ - Ground Water

Date Sampled: 08/24/12

Method:

SW846 8270C BY SIM SW846 3510C

Date Received: 08/25/12

Project:

G-Lact Battery 22

Percent Solids: n/a

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 V12435.D 1 08/31/12 GJ 08/30/12 OP24920 EV695

Run #2

Initial Volume Final Volume

Run #1 990 ml

1.0 ml

Run #2

BN PAH List

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|-----------|------------------------|------------|---------|----------|-------|---|
| 83-32-9 | Acenaphthene | 0.000042 U | 0.00020 | 0.000042 | ma/l | |
| | | 0.000042 U | 0.00020 | | mg/l | |
| 208-96-8 | Acenaphthylene | | | 0.000072 | mg/l | |
| 120-12-7 | Anthracene | 0.000054 U | 0.00020 | 0.000054 | mg/l | |
| 56-55-3 | Benzo(a)anthracene | 0.000042 U | 0.00020 | 0.000042 | mg/l | |
| 50-32-8 | Benzo(a)pyrene | 0.000065 U | 0.00020 | 0.000065 | mg/l | |
| 205-99-2 | Benzo(b)fluoranthene | 0.000061 U | 0.00020 | 0.000061 | mg/l | |
| 191-24-2 | Benzo(g,h,i)perylene | 0.000068 U | 0.00020 | 0.000068 | mg/l | |
| 207-08-9 | Benzo(k)fluoranthene | 0.000056 U | 0.00020 | 0.000056 | mg/l | |
| 218-01-9 | Chrysene | 0.000045 U | 0.00020 | 0.000045 | mg/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.000060 U | 0.00020 | 0.000060 | mg/l | |
| 206-44-0 | Fluoranthene | 0.000046 U | 0.00020 | 0.000046 | mg/l | |
| 86-73-7 | Fluorene | 0.000065 U | 0.00020 | 0.000065 | mg/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.000061 U | 0.00020 | 0.000061 | mg/l | |
| 91-57-6 | 2-Methylnaphthalene | 0.00012 U | 0.00020 | 0.00012 | mg/l | |
| 91-20-3 | Naphthalene | 0.000076 U | 0.00020 | 0.000076 | mg/l | |
| 85-01-8 | Phenanthrene | 0.000076 U | 0.00020 | 0.000076 | mg/l | |
| 129-00-0 | Pyrene | 0.000080 U | 0.00020 | 0.000080 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| | - | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 79% | | 17-131% | | |
| 321-60-8 | 2-Fluorobiphenyl | 80% | | 15-137% | | |
| 1718-51-0 | Terphenyl-d14 | 101% | | 10-160% | | |
| | - • | | | | | |

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Analytical Batch

GHH637

Client Sample ID: MW-7

Lab Sample ID:

TC15248-6

Matrix:

AQ - Ground Water

DF

Method: Project:

SW846 8015

G-Lact Battery 22

Date Sampled: 08/24/12 Date Received: 08/25/12

Percent Solids: n/a

Prep Batch

n/a

Run #1 Run #2

Purge Volume

HH0011747.D

Run #1

 $5.0 \, ml$

File ID

Run #2

CAS No. Compound Result

Analyzed

09/04/12

MQL

By

LT

SDL

Prep Date

n/a

Units Q

TPH-GRO (C6-C10)

0.012 U

0.050

0.012

mg/l

CAS No. Surrogate Recoveries Run# 1

Run#2

Limits

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

78% 86% 52-127% **58-141%**

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: MW-7

Lab Sample ID:

TC15248-6

Date Sampled: Date Received:

08/24/12

Matrix: Method:

AQ - Ground Water SW846 8015 M SW846 3510C

08/25/12 Percent Solids: n/a

Project:

G-Lact Battery 22

File ID DF Prep Date **Analytical Batch** Analyzed Prep Batch By 08/30/12 08/29/12 Run #1 CC227589.D FO OP24916 GCC1393

Run #2

Final Volume Initial Volume Run #1 990 ml 1.0 ml

Run #2

CAS No. Compound Result MQL SDL Units Q

> TPH (C10-C28) 0.0507 0.10 0.031 mg/l J

CAS No. Surrogate Recoveries Run#1 Run#2 Limits

84-15-1 o-Terphenyl 81% 37-135%

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID: MW-7

Lab Sample ID: Matrix:

TC15248-6

AQ - Ground Water

Date Sampled: 08/24/12 Date Received: 08/25/12

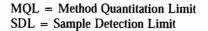
Percent Solids: n/a

Project:

G-Lact Battery 22

General Chemistry

| Analyte | Result | MQL | SDL | Units | DF | Analyzed By Method |
|-------------------------|--------|-----|-----|-------|----|--------------------------------------|
| Chloride | 54.5 | | 2.5 | mg/l | 10 | 09/01/12 00:27 ES EPA 300/SW846 9056 |
| Solids, Total Suspended | 36.3 | | 1.0 | mg/l | 1 | 08/30/12 DP SM 2540D |



U = Indicates a result < SDL

J = Indicates a result > = SDL but < MQL



Client Sample ID: MW-8

Lab Sample ID:

TC15248-7

Matrix:

AQ - Ground Water

Method:

SW846 8260B

Date Sampled: 08/24/12 Date Received: 08/25/12

Percent Solids: n/a

Project:

G-Lact Battery 22

File ID Run #1 Z028439.D

DF 1

Analyzed 08/28/12

By **EM** Prep Date n/a

Prep Batch n/a

Analytical Batch

VZ3736

Run #2

Pur ge Volume

 $5.0 \, ml$

Run #1

Run #2

Purgeable Aromatics

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|--|---|--|--------------------------------------|--|------------------------------|---|
| 71-43-2 108-88-3 100-41-4 1330-20-7 | Benzene Toluene Ethylbenzene Xylene (total) | 0.00025 U 0.00026 U 0.00025 U 0.00071 U | 0.0010 0.0010 0.0010 0.0030 | 0.00025 0.00026 0.00025 0.00071 | mg/l mg/l mg/l mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 1868-53-7 17060-07-0 2037-26-5 460-00-4 | Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene | 107% 89% 97% 113% | | 79-122% 75-121% 87-119% 80-133% | | |

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: MW-8 Lab Sample ID:

TC15248-7

AQ - Ground Water

DF

Date Sampled: 08/24/12 Date Received: 08/25/12

Matrix: Method:

SW846 8270C BY SIM SW846 3510C

Percent Solids: n/a

Project:

G-Lact Battery 22

Prep Date Prep Batch Analytical Batch

Analyzed Ву 08/31/12 08/30/12 Run #1 V12436.D 1 GJ OP24920 EV695

Run #2

Initial Volume Final Volume

Run #1 990 ml

File ID

1.0 ml

Run #2

BN PAH List

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|-----------|------------------------|-------------|---------|----------|-------|---|
| 83-32-9 | Acenaphthene | 0.000042 U | 0.00020 | 0.000042 | mg/l | |
| 208-96-8 | Acenaphthylene | 0.000072 U | 0.00020 | 0.000072 | mg/l | |
| 120-12-7 | Anthracene | 0.000054 U | 0.00020 | 0.000054 | mg/l | |
| 56-55-3 | Benzo(a)anthracene | 0.000042 U | 0.00020 | 0.000042 | mg/l | |
| 50-32-8 | Benzo(a)pyrene | 0.000065 U | 0.00020 | 0.000065 | mg/l | |
| 205-99-2 | Benzo(b)fluoranthene | 0.000061 U | 0.00020 | 0.000061 | mg/l | |
| 191-24-2 | Benzo(g,h,i)perylene | 0.000068 U | 0.00020 | 0.000068 | mg/l | |
| 207-08-9 | Benzo(k) fluoranthene | 0.000056 U | 0.00020 | 0.000056 | mg/l | |
| 218-01-9 | Chrysene | 0.000045 U | 0.00020 | 0.000045 | mg/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.000060 U | 0.00020 | 0.000060 | mg/l | |
| 206-44-0 | Fluoranthene | 0.000046 U | 0.00020 | 0.000046 | mg/l | |
| 86-73-7 | Fluorene | 0.000065 U | 0.00020 | 0.000065 | mg/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.000061 U | 0.00020 | 0.000061 | mg/l | |
| 91-57-6 | 2-Methylnaphthalene | 0.00012 U | 0.00020 | 0.00012 | mg/l | |
| 91-20-3 | Naphthalene | 0.000076 U | 0.00020 | 0.000076 | mg/l | |
| 85-01-8 | Phenanthrene | 0.000076 U | 0.00020 | 0.000076 | mg/l | |
| 129-00-0 | Pyrene | 0.000080 U | 0.00020 | 0.000080 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 75 % | | 17-131% | | |
| 321-60-8 | 2-Fluorobiphenyl | 78% | | 15-137% | | |
| 1718-51-0 | Terphenyl-d14 | 100% | | 10-160% | | |

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



| Client | Sample ID: | MW-8 |
|--------|------------|----------|
| | | TO 4 E O |

Lab Sample ID: Matrix:

TC15248-7 AQ - Ground Water

Date Received: 08/25/12

Date Sampled: 08/24/12

Method: Project:

SW846 8015 G-Lact Battery 22

Percent Solids: n/a

| | File ID | DF | | Ву | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------|----|-----------|------------|------------------|
| Run #1 | HH0011753.D | 1 | 09/04/12 | LT | n/a | n/a | GHH637 |
| Run #2 | | | | | | | |

| Run #1 Run #2 | Purge Volume 5.0 ml | | | | | | |
|------------------|------------------------|--------|-----|-----|-------|---|--|
| CAS No. | Compound | Result | MQL | SDL | Units | Q | |

| | TPH-GRO (C6-C10) | 0.012 U 0.050 | 0.012 mg/l |
|---------------------|---|---------------|--------------------|
| CAS No. | Surrogate Recoveries | Run# 1 Run# 2 | Limits |
| 460-00-4 98-08-8 | 4-Bromofluorobenzene aaa-Trifluorotoluene | 77% 87% | 52-127% 58-141% |

N = Indicates presumptive evidence of a compound



U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: MW-8 Lab Sample ID:

Matrix:

TC15248-7

AQ - Ground Water SW846 8015 M SW846 3510C Date Sampled:

08/24/12 Date Received: 08/25/12

Percent Solids: n/a

Method: Project:

G-Lact Battery 22

File ID DF Prep Date Prep Batch **Analytical Batch** Analyzed By 08/29/12 OP24916 08/30/12 FO GCC1393 Run #1 CC227590.D 1

Run #2

Final Volume Initial Volume 990 ml 1.0 ml Run #1

Run #2

CAS No. Compound Result MQL SDL Units Q TPH (C10-C28) 0.0932 0.10 0.031 mg/l J

CAS No. Run#1 Run# 2 Surrogate Recoveries Limits

84-15-1 84% 37-135% o-Terphenyl

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Report of Analysis

Page 1 of 1

Client Sample ID: MW-8 Lab Sample ID:

TC15248-7

Date Sampled: 08/24/12 Date Received: 08/25/12

Matrix:

AQ - Ground Water

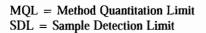
Project:

G-Lact Battery 22

Percent Solids: n/a

General Chemistry

| Analyte | Result | MQL | SDL | Units | DF | Analyzed By | Method |
|-------------------------|--------|-----|-----|-------|----|-------------------|--------------------|
| Chloride | 230 | | 5.0 | mg/l | 20 | 09/04/12 13:03 RA | EPA 300/SW846 9056 |
| Solids, Total Suspended | 24.3 | | 1.0 | mg/l | 1 | 08/30/12 DP | SM 2540D |



U = Indicates a result < SDL

J = Indicates a result > = SDL but < MQL



Client Sample ID: MW-11 Lab Sample ID:

TC15248-8

Matrix: Method: AQ - Ground Water

SW846 8260B G-Lact Battery 22

Date Sampled: 08/23/12 Date Received: 08/25/12

Percent Solids: n/a

Project:

File ID Z028440.D DF 1

Analyzed 08/28/12

Ву Prep Date EMn/a

n/a

Analytical Batch Prep Batch

VZ3736

Run #1 Run #2

Purge Volume

 $5.0 \, ml$

Run #1

Run #2

Purgeable Aromatics

| CAS No. | Compound | Result MQL | SDL | Units | Q |
|--|---|--|--|------------------------------|---|
| 71-43-2 108-88-3 100-41-4 1330-20-7 | Benzene Toluene Ethylbenzene Xylene (total) | 0.00028 0.001 0.00026 U 0.001 0.00025 U 0.001 0.00071 U 0.003 | 0 0.00026 0 0.00025 | mg/l mg/l mg/l mg/l | J |
| CAS No. | Surrogate Recoveries | Run# 1 Run# | 2 Limits | | |
| 1868-53-7 17060-07-0 2037-26-5 460-00-4 | Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene | 100% 85% 97% 107% | 79-122% 75-121% 87-119% 80-133% | | |

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

GJ

08/31/12

Client Sample ID: MW-11 Lab Sample ID:

TC15248-8

Date Sampled: 08/23/12

Matrix:

AQ - Ground Water SW846 8270C BY SIM SW846 3510C

1

Date Received: 08/25/12

Method:

G-Lact Battery 22

Percent Solids: n/a

Project:

V12437.D

File ID DF Analyzed

Prep Date 08/30/12

Prep Batch OP24920

Analytical Batch EV695

Run #1 Run #2

> Initial Volume Final Volume

Run #1 990 ml 1.0 ml

Run #2

BN PAH List

| CAS No. | Compound | Result MQL | | SDL | Units | Q |
|-----------|------------------------|--------------------|---------|----------|-------|---|
| 83-32-9 | Acenaphthene | 0.000064 U | 0.00020 | 0.000064 | mg/l | |
| 208-96-8 | Acenaphthylene | 0.000051 U | 0.00020 | 0.000051 | mg/l | |
| 120-12-7 | Anthracene | 0.000051 U | 0.00020 | 0.000051 | mg/l | |
| 56-55-3 | Benzo(a)anthracene | 0.000051 U | 0.00020 | 0.000051 | mg/l | |
| 50-32-8 | Benzo(a)pyrene | 0.000033 U | 0.00020 | 0.000033 | mg/l | |
| 205-99-2 | Benzo(b) fluoranthene | 0.000050 U | 0.00020 | 0.000050 | mg/l | |
| 191-24-2 | Benzo(g,h,i)perylene | 0.000059 U | 0.00020 | 0.000059 | mg/l | |
| 207-08-9 | Benzo(k)fluoranthene | 0.000075 U | 0.00020 | 0.000075 | mg/l | |
| 218-01-9 | Chrysene | 0.000041 U | 0.00020 | 0.000041 | mg/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.000054 U 0.00020 | | 0.000054 | mg/l | |
| 206-44-0 | Fluoranthene | 0.000081 U 0.00020 | | 0.000081 | mg/l | |
| 86-73-7 | Fluorene | 0.000051 U 0.00020 | | 0.000051 | mg/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.000050 U 0.00020 | | 0.000050 | mg/l | |
| 91-57-6 | 2-Methylnaphthalene | 0.000051 U 0.00020 | | 0.000051 | mg/l | |
| 91-20-3 | Naphthalene | 0.00010 U | 0.00020 | 0.00010 | mg/l | |
| 85-01-8 | Phenanthrene | 0.000051 U | 0.00020 | 0.000051 | mg/l | |
| 129-00-0 | Pyrene | 0.000042 U | 0.00020 | 0.000042 | mg/l | |
| | - | | | | | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 74% | | 17-131% | | |
| 321-60-8 | 2-Fluorobiphenyl | 77% | | 11-122% | | |
| 1718-51-0 | Terphenyl-d14 | 102% | | 21-144% | | |
| - | 1 3 | | | | | |

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



3.8

| Client Sample ID: | MW-11 |
|-------------------|---------|
| Lab Sample ID: | TC15248 |

Matrix:

TC15248-8 AQ - Ground Water Date Sampled: Date Received:

08/23/12 08/25/12

Method: Project:

SW846 8015 G-Lact Battery 22 Percent Solids: n/a

| - | |
|-----|----|
| Run | #1 |

File ID DF HH0011756.D 1 Analyzed By 09/04/12 LT

Prep Date n/a

Prep Batch n/a Analytical Batch GHH637

Run #2

| | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |

Run #2

CAS No. Compound

Result

MQL

Run#2

SDL

Units Q

TPH-GRO (C6-C10)

0.012 U 0.050

0.012

mg/l

CAS No. Surrogate Recoveries

52-127%

Limits

460-00-4 4-Bromofluorobenzene 98-08-8 aaa-Trifluorotoluene 83% 84%

Run#1

58-141%

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: Lab Sample ID:

File ID

990 ml

CC227591.D

Initial Volume

MW-11

TC15248-8

Date Sampled:

08/23/12

Matrix:

AQ - Ground Water SW846 8015 M SW846 3510C

Date Received: 08/25/12 Percent Solids: n/a

Method: Project:

G-Lact Battery 22

Run #1

DF

1

By FO Prep Date 08/29/12

Prep Batch OP24916

Analytical Batch GCC1393

Run #2

Run #1

Final Volume 1.0 ml

Run #2

CAS No. Compound

Result

Analyzed

08/30/12

MQL

SDL

Units Q

TPH (C10-C28)

0.370

0.10

0.031

mg/l

CAS No.

Surrogate Recoveries

Run#1

Run# 2

Limits

o-Terphenyl 84-15-1

90%

37-135%

U = Not detected

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID: MW-11 Lab Sample ID:

TC15248-8

Date Sampled: 08/23/12

Matrix:

AQ - Ground Water

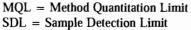
Date Received: 08/25/12 Percent Solids: n/a

Project:

G-Lact Battery 22

General Chemistry

| Analyte | Result | MQL | SDL | Units | DF | Analyzed By Me | thod |
|-------------------------|--------|-----|-----|-------|----|-----------------------|----------------|
| Chloride | 95.1 | 5.0 | 2.5 | mg/l | 10 | 09/01/12 01:01 ES EPA | 300/SW846 9056 |
| Solids, Total Suspended | 37.3 | 2.0 | 1.0 | mg/l | 1 | 08/30/12 DP SM | 2540D |



U = Indicates a result < SDL



Report of Analysis

 $\mathbf{B}\mathbf{y}$

EM

Page 1 of 1

Client Sample ID: MW-12 Lab Sample ID:

TC15248-9

Date Sampled: 08/23/12

Matrix:

AQ - Ground Water

DF

1

Date Received:

08/25/12

Method:

SW846 8260B

n/a

Percent Solids: n/a

Project:

G-Lact Battery 22

Prep Date

n/a

Prep Batch

Analytical Batch

VZ3736

Run #1 Run #2

Purge Volume

Run #1

5.0 ml

File ID

Z028441.D

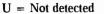
Run #2

Purgeable Aromatics

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|--|---|--|--------------------------------------|--|------------------------------|---|
| 71-43-2 108-88-3 100-41-4 1330-20-7 | Benzene Toluene Ethylbenzene Xylene (total) | 0.00025 U 0.00026 U 0.00025 U 0.00071 U | 0.0010 0.0010 0.0010 0.0030 | 0.00025 0.00026 0.00025 0.00071 | mg/l mg/l mg/l mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 1868-53-7 17060-07-0 2037-26-5 460-00-4 | Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene | 103% 86% 94% 111% | | 79-122% 75-121% 87-119% 80-133% | | |

Analyzed

08/28/12



SDL - Sample Detection Limit

N = Indicates presumptive evidence of a compound





E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: MW-12 Lab Sample ID: TC15248-9

Matrix:

AQ - Ground Water

Date Sampled: Date Received: 08/25/12

08/23/12

Method:

SW846 8270C BY SIM SW846 3510C

Percent Solids: n/a

Project:

G-Lact Battery 22

DF File ID By Prep Date Prep Batch Analytical Batch Analyzed Run #1 V12438.D 08/31/12 GJ 08/30/12 OP24920 EV695 1

Run #2

Initial Volume Final Volume Run #1 970 ml 1.0 ml

Run #2

BN PAH List

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|-----------|------------------------|--------------------|---------|----------|-------|---|
| 83-32-9 | Acenaphthene | 0.000066 U | 0.00021 | 0.000066 | mg/l | |
| 208-96-8 | Acenaphthylene | 0.000052 U | 0.00021 | 0.000052 | mg/l | |
| 120-12-7 | Anthracene | 0.000052 U | 0.00021 | 0.000052 | mg/l | |
| 56-55-3 | Benzo(a)anthracene | 0.000052 U | 0.00021 | 0.000052 | mg/l | |
| 50-32-8 | Benzo(a)pyrene | 0.000034 U | 0.00021 | 0.000034 | mg/l | |
| 205-99-2 | Benzo(b)fluoranthene | 0.000051 U | 0.00021 | 0.000051 | mg/l | |
| 191-24-2 | Benzo(g,h,i)perylene | 0.000060 U | 0.00021 | 0.000060 | mg/l | |
| 207-08-9 | Benzo(k)fluoranthene | 0.000077 U | 0.00021 | 0.000077 | mg/l | |
| 218-01-9 | Chrysene | 0.000042 U | 0.00021 | 0.000042 | mg/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.000055 U 0.00021 | | 0.000055 | mg/l | |
| 206-44-0 | Fluoranthene | 0.000083 U 0.00021 | | 0.000083 | mg/l | |
| 86-73-7 | Fluorene | 0.000052 U 0.00021 | | 0.000052 | mg/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.000051 U 0.00021 | | 0.000051 | mg/l | |
| 91-57-6 | 2-Methylnaphthalene | 0.000052 U 0.00021 | | 0.000052 | mg/l | |
| 91-20-3 | Naphthalene | 0.00010 U | 0.00021 | 0.00010 | mg/l | |
| 85-01-8 | Phenanthrene | 0.000052 U | 0.00021 | 0.000052 | mg/l | |
| 129-00-0 | Pyrene | 0.000042 U | 0.00021 | 0.000042 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 82% | | 17-131% | | |
| 321-60-8 | 2-Fluorobiphenyl | 80% | | 11-122% | | |
| 1718-51-0 | Terphenyl-d14 | 108% | | 21-144% | | |

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: MW-12 Lab Sample ID:

Matrix:

TC15248-9

Method: Project:

AQ - Ground Water SW846 8015 G-Lact Battery 22

Date Sampled: 08/23/12 Date Received: 08/25/12

Percent Solids: n/a

| | File ID | DF | Analyzed | Ву | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------|----|-----------|------------|------------------|
| Run #1 | HH0011715.D | 1 | 09/04/12 | LT | n/a | n/a | GHH636 |
| Run #2 | | | | | | | |

Purge Volume Run #1 5.0 ml Run #2

CAS No. Compound Result MQL **SDL** Units Q TPH-GRO (C6-C10) 0.012 U 0.0500.012mg/l CAS No. Run# 1 Run# 2 Surrogate Recoveries Limits 460-00-4 4-Bromofluorobenzene 75% 52-127% 98-08-8 aaa-Trifluorotoluene 85% 58-141%

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: MW-12

Lab Sample ID:

TC15248-9 AQ - Ground Water Date Sampled: 08/23/12

08/25/12

Matrix: Method:

SW846 8015 M SW846 3510C

Date Received:

Project:

G-Lact Battery 22

Percent Solids: n/a

| Run #1 | File ID CC227592.D | DF 1 | Analyzed 08/30/12 | By FO | Prep Date 08/29/12 | Prep Batch OP24916 | Analytical Batch GCC1393 |
|--------|-----------------------|---------|----------------------|----------|--------------------|-----------------------|-----------------------------|
| Run #2 | | | | | | | |

Report of Analysis

| Run #1 | Initial Volume 990 ml | Final Volume 1.0 ml |
|--------|--------------------------|------------------------|
| Run #2 | | |

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
| | TPH (C10-C28) | 0.113 | 0.10 | 0.031 | mg/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 84-15-1 | o-Terphenyl | 86% | | 37-135% | | |

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: MW-12 Lab Sample ID:

Matrix:

TC15248-9 AQ - Ground Water Date Sampled: 08/23/12

Percent Solids: n/a

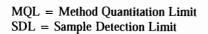
Date Received: 08/25/12

Project:

G-Lact Battery 22

General Chemistry

| Analyte | Result | MQL | SDL | Units | DF | Analyzed By Method |
|-------------------------------------|---|-----|------------|--------------|---------|--|
| Chloride Solids, Total Suspended | 195 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - | | 5.0 1.0 | mg/l mg/l | 20 1 | 09/04/12 13:54 RA EPA 300/SW846 9056 08/30/12 DP SM 2540D |



U = Indicates a result < SDL

J = Indicates a result > = SDL but < MQL



Report of Analysis

By

EM

n/a

Page 1 of 1

Client Sample ID: TRIP BLANK

Lab Sample ID: Matrix:

TC15248-10

AQ - Trip Blank Water

DF

1

Date Sampled: Date Received: 08/25/12

08/23/12

Method:

SW846 8260B

Percent Solids: n/a

n/a

Project:

G-Lact Battery 22

Prep Date Prep Batch

Analytical Batch VZ3736

Run #1 Run #2

Purge Volume

Run #1

 $5.0 \, ml$

File ID

Z028429.D

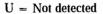
Run #2

Purgeable Aromatics

| CAS No. | Compound | Result | MQL | SDL | Units | Q |
|--|---|-----------------------------|--------------------------------------|--|----------------------|---|
| 71-43-2 108-88-3 100-41-4 | Benzene Toluene Ethylbenzene | 0.00026 U 0.00025 U | 0.0010 0.0010 0.0010 0.0030 | 0.00025 0.00026 0.00025 | mg/l mg/l mg/l | |
| 1330-20-7 CAS No. | Xylene (total) Surrogate Recoveries | | 0.0030 Run# 2 | 0.00071 Limits | mg/l | |
| 1868-53-7 17060-07-0 2037-26-5 460-00-4 | Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene | 103% 89% 101% 112% | | 79-122% 75-121% 87-119% 80-133% | | |

Analyzed

08/28/12



SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





| Misc. Forms | | |) (# 1) (#) (#) (#) (#) (#) (#) (| جا <u>ن</u> <u>د</u> |
|------------------------|----------|-------------|--|-------------------------|
| | | | | |
| Custody Document | ts and (| Other For | rms | |
| | | | | |
| | | | | |
| Includes the following | g where | applicable: | | |

• Chain of Custody



| = | ACCUTEST | _ | CHAIN OF CUSTODY | | | | | | | | | | | - | | PAGE Order Control # | | | | | | | | |
|------------------------|---|---|--------------------|--------------|-----------|-----------------|----------|---------|----------------|------------|------------------------------------|----------|--|----------------|-----------------|----------------------|----------|-----------------|------|---------------|----------|---------------|----------|---|
| | ALLUI ED 16 | 10165 Harwin Dr. Ste 150 Houston, TX 77036 TEL. 713-271-4700 FAX: 713-271-4770 | | | | | | | | - 1 | FED-EX Tracking # Accusest Quote # | | | | | | | | | | | | | |
| | | | | 1EL. 713 | | CCUIEST,C | | /1-4// | **** | | | | | ACCUREN | LIUDIS II | | | | l^ | coutes) Jo | * 4 | \mathcal{C} | کیا | 747 |
| ara, | Client / Reporting Information | Project Name: | | Project | Informa | ition | | | | | 李紫 | 33 | | _ | | | Req | uest | ed A | naly | ses | <u> </u> | <u> </u> | Matrix Codes |
| Gee | Monitorina Services | | LACT | Ba | He | Y | 2 | 2 | | SEL SECOND | YS 020-2562 | | ###################################### | | | | | | | 1 | | | | DW - Drinking Wate GW - Ground Wak WW - Water |
| 412 | 23 5 ⁴ 5+. | | | | Rilling | nformatic | o (if d | Marant | from P | anort | to) | | | | | | | | | | | | | SW - Surface Wate SO - Soil |
| City | State | City | | State | Compan | | | | | | | | | | | | İ | ا. ا | | | | | | SL-Sludge SED-Sediment |
| Project 0 | Contact E-mail | Project# | | | Street A | idress | | | | | | | - | 60 | 5 | 2 | 10 | 2 | ĺ | | | | | OI - Oil LIQ - Other Liquic |
| Rex | Meyer rex@goomon. | ne+ | | | | | _ | | | | | | | 826 | _ | | 015 | 1 | | | | | | AIR - Air BOL - Other Solid |
| Phone # クタル | -375-510/ | Client Purchase C | Order# | | City | | | | State | | | Zip | | œ, | 80 | 82 | 8 | V | | | | ' | | WP - Wipe FB-Field Blank |
| Sampler | (s) Name(s) Phone # | Project Manager | | | Attention | | | | | | | | | | ~ | v | | | | - 1 | | | | EB-Equipment Blar RB- Rinse Blank |
| Ja | mae Flake 843-343-62 | 36 | Collec | | <u> </u> | | | | <u> </u> | | | | _ | X | Ro | エ | Q, | 씨 | | | | | | TB-Trip Blank |
| | | | Collec | tion | Г | | | 1-1 | ember of | _ | | 7 | # | F | | X | × | [] | | | - 1 | | | |
| Acculent . Sample # | Field ID / Point of Collection | Dete | Time | Sempled By | Metrix | # of bottles | E 5 | ZANe | H2S04 | NON IN | 15 PE | E SES | OJ HE | ∞ | Q | 5 | 7 | | | | 1 | | | LAB USE ONLY |
| . [| MW-I | 8/23/12 | 945 | JF | GW | 11 | 6 | †† | \top | + | | \top | 5 | X | X | X | X | X | | | \top | | - | |
| 2 | MW-2 | 1 | 1038 | 1 | 1 | 1 | 6 | T | 11 | | П | \sqcap | 5 | X | $\dot{\lambda}$ | × | × | V | | | | | | |
| 3 | mw-4 | | 1326 | | П | \Box | 6 | T | 11 | \top | П | П | 5 | X | × | × | V | X | | | \top | | 1 | |
| 4 | MW-5 | | 1507 | | П | | 6 | П | T | 7 | П | П | 5 | Ż | X | X | X | X | | | | | T | |
| 5 | MW-6 | V | 1420 | | П | | 6 | П | П | | | | 5 | X | × | X. | X | \times | | | | | | |
| b | MW-7 | B/24/12 | 931 | | | | 6 | П | | T | | | 5 | X | X | X | X | X | | | | | | |
| 1 | MW-8 | 8/24/12 | 1030 | | | | 6 | П | T | | П | П | 5 | X | ス | X | X | λ | | | T | | | |
| 3 | MW - 11 | 8/23/12 | 1138 | | П | | 6 | \prod | П | | П | П | 5 | X | X | X | X | X | | | | | | |
| Q. | MW-12 | 8/23/12 | 1606 | 1 | V | V | 6 | П | П | | П | П | 5 | \overline{X} | X | X | X | X | | | | | | |
| o'ı | Trip Blank | | | | TB | 2 | 2 | П | П | | П | П | | X | | A) | | | | | | | | T |
| Ľ | | | | | | Ī | П | П | | | П | П | | | | | | | | | | | 1 | |
| | | | | | | | П | | ŀ | | П | П | | | | | | | | | | | | |
| | | | omicione (i | the desired | | Ĺ | | ata De | | ie info | | | | 11/2 | | 1994 | | 1000 | Comm | ents / S | pecial i | nstructio | ns 🕌 | 2000 |
| | Ø Standard ☐ 5 Dey RUSH | Approved By (Acco | daust PM): / Datu: | | | Commen | | | | | 믐 | | omat | | | | | | | | | | | |
| | 4 Day RUSH | | | | 1 - | FULT1 (| | | | | \equiv | Other, | | _ | | | | | | | | | | |
| | 3 Day RUSH 2 Day RUSH | | | | | REDT1 (| | | | | | | | | | | | | | | | | | |
| | 1 Day EMERGENCY | | | | | | С | ommen | | | | | | | | | | | | | | | | |
| | Emergency & Rush T/A data available VIA Lablink | | | | | | | ommen | | | | | | Summ | arv | | | | | | | | | |
| | | | mple Custody n | ust be docur | nented I | elow ea | ch tim | e sam | ples ch | tange | poss | essio | n, incl | uding | courier | delive | ry. | 112 | ار | reus. | | | T. Sund! | emerch c |
| 1_/ | and the sumples and the sumples and the sum of the sum | 12 1300 | Received By: | | | | | | ielinquis ? | hed (it) | r. | Ĺ | 0 | ζ | 1 | | " | 50 | 10 | North College | ar (|) | _ | _ |
| Reite | equished by Sempler: Date Time: | | Received By: | | | | | - | telinguie | bed Po | , | 1 | <u> </u> | ∀ | | | 12 | ~~ (| | | > | | | $\overline{}$ |

TC15248: Chain of Custody Page 1 of 8





Accutest Laboratories Sample Receipt Summary

Page 1 of 7

| LABORAI | DHIES | | | | | | |
|---|----------------------------------|--|--|--|----------|----------|---------------------------------------|
| Accutest Job Number: | TC15248 | Client: | GEO MONITORING | SERVICES Project: G LACT BATTE | RY 22 | | |
| Date / Time Received: 8 | 3/25/2012 | | Delivery Method: | Airbill #'s: 535599232156/ | 53559923 | 2167/53 | 5599232189/5355 |
| No. Coolers: 5 | Them | ID: IRGUN5; | | Temp Adjustment Factor: | -0.4; | | |
| Cooler Temps (Initial/Adj | justed): #1 | : (5.8/5.4); #2: | (5.6/5.2); #3: (6.2/5.8 | 3); #4: (16.3/15.9); #5: (12.2/11.8); | | | |
| Cooler Security | Y or N | • | Y or | | <u>Y</u> | or N | <u>.</u> |
| 1. Custody Seals Present: | | 3. COC Pi | | 1. Sample labels present on bottles: | ~ | [| |
| 2. Custody Seals Intact: | V | 4. Smpl Date | s/Time OK 🔽 | Container labeling complete: | V | [|] |
| Cooler Temperature | <u>Y</u> | or N | | Sample container label / COC agree: | ~ | [| |
| Temp criteria achieved: | | ~ | | Sample Integrity - Condition | _Y | or N | L |
| Cooler temp verification: | | | | Sample recvd within HT: | • | ĺ | |
| Cooler media: | lc | e (Bag) | - | 2. All containers accounted for: | • | [| |
| Quality Control Preserva | ation Y | or N N/A | WTB_S | 3. Condition of sample: | | Intact | |
| 1. Trip Blank present / coole | er: | | \checkmark | Sample Integrity - Instructions | Y | or N | N/A |
| 2. Trip Blank listed on COC | : 🗸 | | | Analysis requested is clear: | ~ | | 1 |
| 3. Samples preserved prop | erly: | | | 2. Bottles received for unspecified tests | | ✓ |] |
| 4. VOCs headspace free: | V | | | Sufficient volume recvd for analysis: | ✓ | Ī.,. |] |
| | | | | Compositing instructions clear: | | | ~ |
| | | | | 5. Filtering instructions clear: | | Γ. | ĕ ! |
| Comments Received cool Received cool | er 4 with melt er 5 with melt | ed ice. Out of ten ed ice. Out of ten | np at 15.9 degrees celci np at 11.8 degrees celci | ius with id MW12 in cooler. ius with MW4 and MW7 in cooler. | | | |
| Accutest Laboratories V:713.271.4700 | | | | 10165 Harwin Drive F: 713.271.4770 | | | Houston, TX 77036 www/accutest.com |

TC15248: Chain of Custody Page 2 of 8





Problem Resolution

| Accute | est Job Number: | TC15248 | | | |
|-----------|-----------------|---------|--|----------------|--|
| CSR: | | | | Response Date: | |
| Response: | | | | | |

TC15248: Chain of Custody Page 3 of 8





Job#: TC15248

Date / Time Received: 8/25/2012

Initials: EC

Client: GEO MONITORING SERVICES

| Cooler# | Sample ID: | Vol | Bot # | Location | Pres | рН | Therm ID | Initial Temp | Therm CF | Corrected Temp |
|---------|------------|--------|-------|----------|------|---|----------|-----------------|-------------|-------------------|
| 2 | TC15248-1 | 1000ml | 1 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-1 | 1000ml | 2 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-1 | 1000ml | 3 | 4E | N/P | Note #2 - Preservative check not applicable. IRGUN5 | | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-1 | 1000ml | 4 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-1 | 1000ml | 5 | 3H | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-1 | 40ml | 6 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-1 | 40ml | 7 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-1 | 40ml | 8 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-1 | 40ml | 9 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-1 | 40ml | 10 | VR | HCL | Note #1 - Preservative to be checked by analyst lat the instrument. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-1 | 40ml | 11 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. 5.6 | | -0.4 | 5.2 | |
| 2 | TC15248-2 | 1000ml | 1 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-2 | 1000ml | 2 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-2 | 1000ml | 3 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-2 | 1000ml | 4 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-2 | 1000ml | 5 | 3H | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-2 | 40ml | 6 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-2 | 40ml | 7 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-2 | 40ml | 8 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-2 | 40ml | 9 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-2 | 40ml | 10 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 2 | TC15248-2 | 40ml | 11 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.6 | -0.4 | 5.2 |
| 5 | TC15248-3 | 1000ml | 1 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 12.2 | -0.4 | 11.8 |

TC15248: Chain of Custody Page 4 of 8





Job #: TC15248

Date / Time Received: 8/25/2012

Initials: EC

Client: GEO MONITORING SERVICES

| Cooler# | Sample ID: | Vol | Bot # | Location | Pres | рН | Therm ID | Initial Temp | Therm CF | Corrected Temp |
|---------|------------|--------|-------|----------|------|--|----------|-----------------|-------------|-------------------|
| 5 | TC15248-3 | 1000ml | 2 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-3 | 1000ml | 3 | 4E | N/P | Note #2 - Preservative check not applicable. IRGUN5 12.2 | | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-3 | 1000ml | 4 | 4E | N/P | Note #2 - Preservative check not applicable. IRGUN5 12.2 | | -0.4 | 11.8 | |
| 5 | TC15248-3 | 1000ml | 5 | 3H | N/P | Note #2 - Preservative check not applicable. IRGUN5 12.2 | | -0.4 | 11.8 | |
| 5 | TC15248-3 | 40ml | 6 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-3 | 40ml | 7 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-3 | 40ml | 8 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-3 | 40ml | 9 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-3 | 40ml | 10 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-3 | 40ml | 11 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 1 | TC15248-4 | 1000ml | 1 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | IRGUN5 5.8 -0.4 | | 5.4 |
| 1 | TC15248-4 | 1000ml | 2 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-4 | 1000ml | 3 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-4 | 1000ml | 4 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-4 | 1000ml | 5 | 3H | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-4 | 40ml | 6 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-4 | 40ml | 7 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-4 | 40ml | 8 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-4 | 40ml | 9 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-4 | 40ml | 10 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-4 | 40ml | 11 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-5 | 1000ml | 1 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-5 | 1000ml | 2 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.8 | -0.4 | 5.4 |

TC15248: Chain of Custody Page 5 of 8





Job #: TC15248

Date / Time Received: 8/25/2012

Initials: EC

Client: GEO MONITORING SERVICES

| Cooler# | Sample ID: | Vol | | | pH | Therm ID | Initial Temp | Therm CF | Corrected Temp | |
|---------|------------|--------|----|----|-----|--|-----------------|-------------|-------------------|------|
| 1 | TC15248-5 | 1000ml | 3 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-5 | 1000ml | 4 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-5 | 1000ml | 5 | 3H | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-5 | 40ml | 6 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-5 | 40ml | 7 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-5 | 40ml | 8 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-5 | 40ml | 9 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-5 | 40ml | 10 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-5 | 40ml | 11 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 5 | TC15248-6 | 1000ml | 1 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-6 | 1000ml | 2 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-6 | 1000mi | 3 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-6 | 1000ml | 4 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-6 | 1000ml | 5 | 3H | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-6 | 40ml | 6 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-6 | 40ml | 7 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-6 | 40ml | 8 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-6 | 40ml | 9 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-6 | 40ml | 10 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 5 | TC15248-6 | 40ml | 11 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 12.2 | -0.4 | 11.8 |
| 3 | TC15248-7 | 1000ml | 1 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-7 | 1000ml | 2 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-7 | 1000ml | 3 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 6.2 | -0.4 | 5.8 |

TC15248: Chain of Custody Page 6 of 8





Job#: TC15248

Date / Time Received: 8/25/2012

Initials: EC

Client: GEO MONITORING SERVICES

| Cooler# | Sample ID: | Vol | Bot # | Location | Pres | рН | Therm ID | Initial Temp | Therm CF | Corrected Temp |
|---------|------------|----------|-------|----------|------|--|------------------------|-----------------|-------------|-------------------|
| 3 | TC15248-7 | 1000ml | 4 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-7 | 1000ml | 5 | 3H | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-7 | 40ml | 6 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-7 | 40ml | 7 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-7 | 40ml | 8 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-7 | 40ml | 9 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-7 | 40ml | 10 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-7 | 40ml | 11 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-8 | 1000ml | 1 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-8 | 1000ml | 2 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-8 | 1000ml | 3 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-8 | 1000ml | 4 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-8 | . 1000ml | 5 | 3H | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-8 | 40ml | 6 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-8 | 40ml | 7 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-8 | 40ml | 8 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-8 | 40ml | 9 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-8 | 40ml | 10 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 3 | TC15248-8 | 40ml | 11 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 6.2 | -0.4 | 5.8 |
| 4 | TC15248-9 | 1000ml | 1 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 16.3 | -0.4 | 15.9 |
| 4 | TC15248-9 | 1000ml | 2 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 16.3 | -0.4 | 15.9 |
| 4 | TC15248-9 | 1000ml | 3 | 4E | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 16.3 | -0.4 | 15.9 |
| 4 | TC15248-9 | 1000ml | 4 | 4E | N/P | Note #2 - Preservative check not applicable. | able. IRGUN5 16.3 -0.4 | | 15.9 | |

TC15248: Chain of Custody Page 7 of 8









Job #: TC15248

Date / Time Received: 8/25/2012

Initials: EC

Client: GEO MONITORING SERVICES

| Cooler# | Sample ID: | Vol | Bot # | Location | Pres | рН | Therm ID | Initial Temp | Therm CF | Corrected Temp |
|---------|------------|--------|-------|----------|------|--|----------|-----------------|-------------|-------------------|
| 4 | TC15248-9 | 1000ml | 5 | 3H | N/P | Note #2 - Preservative check not applicable. | IRGUN5 | 16.3 | -0.4 | 15.9 |
| 4 | TC15248-9 | 40ml | 6 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 16.3 | -0.4 | 15.9 |
| 4 | TC15248-9 | 40ml | 7 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 16.3 | -0.4 | 15.9 |
| 4 | TC15248-9 | 40ml | 8 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 16.3 | -0.4 | 15.9 |
| 4 | TC15248-9 | 40ml | 9 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 16.3 | -0.4 | 15.9 |
| 4 | TC15248-9 | 40ml | 10 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 16.3 | -0.4 | 15.9 |
| 4 | TC15248-9 | 40ml | 11 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 16.3 | -0.4 | 15.9 |
| 1 | TC15248-10 | 40ml | 1 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.8 | -0.4 | 5.4 |
| 1 | TC15248-10 | 40ml | 2 | VR | HCL | Note #1 - Preservative to be checked by analyst at the instrument. | IRGUN5 | 5.8 | -0.4 | 5.4 |

TC15248: Chain of Custody

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| | | | |

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary Job Number: TC15248

Account:

GMSTXFU Geo Monitoring Services

Project:

G-Lact Battery 22

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|-------------|----------|----|-----------|------------|------------------|
| VZ3736-MB | Z028428.D | 1 | 08/28/12 | EM | n/a | n/a | VZ3736 |
| | | · · · · · · | | | | | |

The QC reported here applies to the following samples:

Method: SW846 8260B

TC15248-1, TC15248-2, TC15248-3, TC15248-4, TC15248-5, TC15248-6, TC15248-7, TC15248-8, TC15248-9, TC15248-10

| CAS No. | Compound | Result | RL | MDL | Units Q |
|--|---|----------------------------|--------------------------------------|------------------------------|------------------------------|
| 71-43-2 100-41-4 108-88-3 1330-20-7 | Benzene Ethylbenzene Toluene Xylene (total) | ND ND ND ND | 1.0 1.0 1.0 3.0 | 0.25 0.25 0.26 0.71 | ug/l ug/l ug/l ug/l |
| CAS No. | Surrogate Recoveries | | Limits | | |
| 1868-53-7 17060-07-0 2037-26-5 460-00-4 | Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene | 99% 88% 101% 112% | 79-122 75-121 87-119 80-133 | % % | |



Blank Spike Summary Job Number: TC15248

Account:

GMSTXFU Geo Monitoring Services

Project:

G-Lact Battery 22

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| VZ3736-BS | Z028426.D | 1 | 08/28/12 | EM | n/a | n/a | VZ3736 |
| | | | | | | | |

The QC reported here applies to the following samples:

Method: SW846 8260B

TC15248-1, TC15248-2, TC15248-3, TC15248-4, TC15248-5, TC15248-6, TC15248-7, TC15248-8, TC15248-9, TC15248-10

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|------------|-----------------------|---------------|-------------|----------|--------|
| 71-43-2 | Benzene | 25 | 24.5 | 98 | 76-118 |
| 100-41-4 | Ethylbenzene | 25 | 24.3 | 97 | 75-112 |
| 108-88-3 | Toluene | 25 | 24.4 | 98 | 77-114 |
| 1330-20-7 | Xylene (total) | 7 5 | 73.2 | 98 | 75-111 |
| CAS No. | Surrogate Recoveries | BSP | Li | mits | |
| 1868-53-7 | Dibromofluoromethane | 104% | 79 | -122% | |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | 75 | -121% | |
| 2037-26-5 | Toluene-D8 | 106% | 87 | -119% | |
| 460-00-4 | 4-Bromofluorobenzene | 114% | 80 | -133% | |
| | | | | | |



^{* =} Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC15248

Account:

GMSTXFU Geo Monitoring Services

Project:

G-Lact Battery 22

The QC reported here applies to the following samples:

Method: SW846 8260B

TC15248-1, TC15248-2, TC15248-3, TC15248-4, TC15248-5, TC15248-6, TC15248-7, TC15248-8, TC15248-9, TC15248-10

| CAS No. | Compound | TC15248-1 ug/l Q | Spike ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|--|---|----------------------------------|----------------------------|------------------------------|-------------------------|--|-------------------------|------------------|--|
| 71-43-2 100-41-4 108-88-3 1330-20-7 | Benzene Ethylbenzene Toluene Xylene (total) | 1.0 U 1.0 U 1.0 U 3.0 U | 25 25 25 75 | 26.7 25.8 24.3 78.9 | 107 103 97 105 | 26.3 25.1 24.1 79.5 | 105 100 96 106 | 2 3 1 1 | 76-118/16 75-112/12 77-114/12 75-111/12 |
| CAS No. | Surrogate Recoveries | MS | MSD | TC | 15248-1 | Limits | | | |
| 1868-53-7 17060-07-0 2037-26-5 460-00-4 | Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene | 104% 92% 99% 113% | 105% 90% 99% 113% | 999 889 999 109 | 6 | 79-1229 75-1219 87-1199 80-1339 | % % | | |



^{* =} Outside of Control Limits.



GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Number: TC15248

Account:

GMSTXFU Geo Monitoring Services

Project:

G-Lact Battery 22

| Sample | File ID | DF | Analyzed | By | Prep Date 08/30/12 | Prep Batch | Analytical Batch |
|------------|----------|----|----------|----|--------------------|------------|------------------|
| OP24920-MB | V12419.D | 1 | 08/31/12 | GJ | | OP24920 | EV695 |
| | | | | | | | |

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

TC15248-1, TC15248-2, TC15248-3, TC15248-4, TC15248-5, TC15248-6, TC15248-7, TC15248-8, TC15248-9

| CAS No. | Compound | Result | RL | MDL | Units Q |
|------------------------------------|--|----------------------|----------------------------|-------|---------|
| 83-32-9 | Acenaphthene | ND | 0.20 | 0.042 | ug/l |
| 208-96-8 | Acenaphthylene | ND | 0.20 | 0.072 | ug/l |
| 120-12-7 | Anthracene | ND | 0.20 | 0.054 | ug/l |
| 56-55-3 | Benzo(a)anthracene | ND | 0.20 | 0.041 | ug/l |
| 50-32-8 | Benzo(a) pyrene | ND | 0.20 | 0.064 | ug/l |
| 205-99-2 | Benzo(b)fluoranthene | ND | 0.20 | 0.060 | ug/l |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 0.20 | 0.068 | ug/l |
| 207-08-9 | Benzo(k)fluoranthene | ND | 0.20 | 0.056 | ug/l |
| 218-01-9 | Chrysene | ND | 0.20 | 0.044 | ug/l |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 0.20 | 0.060 | ug/l |
| 206-44-0 | Fluoranthene | ND | 0.20 | 0.046 | ug/l |
| 86-73-7 | Fluorene | ND | 0.20 | 0.064 | ug/l |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND . | 0.20 | 0.061 | ug/l |
| 91-57-6 | 2-Methylnaphthalene | ND | 0.20 | 0.12 | ug/l |
| 91-20-3 | Naphthalene | ND | 0.20 | 0.075 | ug/l |
| 85-01-8 | Phenanthrene | ND | 0.20 | 0.075 | ug/l |
| 129-00-0 | Pyrene | ND | 0.20 | 0.079 | ug/l |
| | | | | | |
| CAS No. | Surrogate Recoveries | | Limits | | |
| 4165-60-0 321-60-8 1718-51-0 | Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 | 115% 112% 130% | 17-131 15-137 10-160 | % | |



Method: SW846 8270C BY SIM

Blank Spike/Blank Spike Duplicate Summary Job Number: TC15248

Account:

GMSTXFU Geo Monitoring Services

Project:

G-Lact Battery 22

|--|

The QC reported here applies to the following samples:

TC15248-1, TC15248-2, TC15248-3, TC15248-4, TC15248-5, TC15248-6, TC15248-7, TC15248-8, TC15248-9

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|------------------------------------|--|--------------------|----------------|----------|-------------------------------|----------|-----|-------------------|
| 83-32-9 | Acenaphthene | 5 | 4.5 | 90 | 4.7 | 94 | 4 | 10-125/30 |
| 208-96-8 | Acenaphthylene | 5 | 4.8 | 96 | 4.9 | 98 | 2 | 10-141/30 |
| 120-12-7 | Anthracene | 5 | 5.1 | 102 | 5.2 | 104 | 2 | 13-139/30 |
| 56-55-3 | Benzo(a)anthracene | 5 | 5.1 | 102 | 5.3 | 106 | 4 | 24-151/30 |
| 50-32-8 | Benzo(a) pyrene | 5 | 5.1 | 102 | 5.2 | 104 | 2 | 36-146/30 |
| 205-99-2 | Benzo(b)fluoranthene | 5 | 5.5 | 110 | 5.8 | 116 | 5 | 27-159/30 |
| 191-24-2 | Benzo(g,h,i)perylene | 5 | 5.3 | 106 | 5.3 | 106 | 0 | 21-156/30 |
| 207-08-9 | Benzo(k)fluoranthene | 5 | 4.8 | 96 | 4.9 | 98 | 2 | 26-157/30 |
| 218-01-9 | Chrysene | 5 | 5.3 | 106 | 5.4 | 108 | 2 | 26-146/30 |
| 53-70-3 | Dibenzo(a,h)anthracene | 5 | 5.3 | 106 | 5.4 | 108 | 2 | 23-161/30 |
| 206-44-0 | Fluoranthene | 5 | 5.7 | 114 | 5.1 | 102 | 11 | 20-140/30 |
| 86-73-7 | Fluorene | 5 | 5.0 | 100 | 4.9 | 98 | 2 | 16-126/30 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 5 | 5.7 | 114 | 5.7 | 114 | 0 | 25-153/30 |
| 91-57-6 | 2-Methylnaphthalene | 5 | 4.3 | 86 | 4.3 | 86 | 0 | 10-115/30 |
| 91-20-3 | Naphthalene | 5 | 4.2 | 84 | 4.5 | 90 | 7 | 11-111/30 |
| 85-01-8 | Phenanthrene | 5 | 4.9 | 98 | 4.9 | 98 | 0 | 23-135/30 |
| 129-00-0 | Pyrene | 5 | 5.1 | 102 | 5.8 | 116 | 13 | 27-138/30 |
| CAS No. | Surrogate Recoveries | BSP | BS | SD | Limits | | | |
| 4165-60-0 321-60-8 1718-51-0 | Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 | 81% 83% 102% | 84 87 11 | | 17-131% 15-137% 10-160% | 6 | | |

⁽a) Insufficient sample for MS/MSD.



^{* =} Outside of Control Limits.



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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Number: TC15248 Account:

GMSTXFU Geo Monitoring Services

Project:

98-08-8

G-Lact Battery 22

58-141%

The QC reported here applies to the following samples:

aaa-Trifluorotoluene

Method: SW846 8015

TC15248-1, TC15248-2, TC15248-3, TC15248-4, TC15248-5, TC15248-9

CAS No. Compound Result RLMDL Units Q TPH-GRO (C6-C10) ND 0.0500.012 mg/l CAS No. Limits Surrogate Recoveries 460-00-4 4-Bromofluorobenzene 77% 52-127%

80%



Method Blank Summary Job Number: TC15248

Account:

GMSTXFU Geo Monitoring Services G-Lact Battery 22

Project:

|--|

The QC reported here applies to the following samples:

Method: SW846 8015

TC15248-6, TC15248-7, TC15248-8

| CAS No. | Compound | Result | RL | MDL | Units Q |
|---------------------|--|------------|------------------|-------|---------|
| | TPH-GRO (C6-C10) | ND | 0.050 | 0.012 | mg/l |
| CAS No. | Surrogate Recoveries | | Limits | : | |
| 460-00-4 98-08-8 | 4-Bromofluorobenzene aaa-Trifluorotoluene | 79% 88% | 52-127 58-141 | | |

Blank Spike Summary Job Number: TC15248

Account:

GMSTXFU Geo Monitoring Services

Project:

G-Lact Battery 22

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| GHH636-BS | HH0011712 | .D | 09/03/12 | LT | n/a | n/a | GHH636 |
| | | | | | | | |

The QC reported here applies to the following samples:

Method: SW846 8015

TC15248-1, TC15248-2, TC15248-3, TC15248-4, TC15248-5, TC15248-9

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---------------------|--|---------------|-------------|--------------|--------|
| | TPH-GRO (C6-C10) | 0.4 | 0.387 | 97 | 73-122 |
| CAS No. | Surrogate Recoveries | BSP | Lim | its | |
| 460-00-4 98-08-8 | 4-Bromofluorobenzene aaa-Trifluorotoluene | 87% 87% | | .27% .41% | |



^{* =} Outside of Control Limits.

Blank Spike Summary Job Number: TC15248

Account:

GMSTXFU Geo Monitoring Services

Project:

G-Lact Battery 22

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| GHH637-BS | HH0011744 | D | 09/04/12 | LT | n/a | n/a | GHH637 |
| | | | | | | | |

The QC reported here applies to the following samples:

Method: SW846 8015

TC15248-6, TC15248-7, TC15248-8

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | Limits |
|---------------------|--|---------------|-------------|------------|--------|
| | TPH-GRO (C6-C10) | 0.4 | 0.431 | 108 | 73-122 |
| CAS No. | Surrogate Recoveries | BSP | Lim | its | |
| 460-00-4 98-08-8 | 4-Bromofluorobenzene aaa-Trifluorotoluene | 99% 101% | | 27% 41% | |



^{* =} Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC15248

Account:

GMSTXFU Geo Monitoring Services

Project:

G-Lact Battery 22

| Sample | File ID DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-------------|----------|----|-----------|------------|------------------|
| TC15248-9MS | HH0011716.D | 09/04/12 | LT | n/a | n/a | GHH636 |
| TC15248-9MSD | HH0011717.D | 09/04/12 | LT | n/a | n/a | GHH636 |
| TC15248-9 | HH0011715.D | 09/04/12 | LT | n/a | n/a | GHH636 |

The QC reported here applies to the following samples:

Method: SW846 8015

TC15248-1, TC15248-2, TC15248-3, TC15248-4, TC15248-5, TC15248-9

| CAS No. | Compound | TC15248-9 mg/l Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---------------------|--|---------------------|---------------|------------|---------|--------------------|----------|-----|-------------------|
| | TPH-GRO (C6-C10) | 0.050 U | 0.4 | 0.404 | 101 | 0.397 | 99 | 2 | 73-122/15 |
| CAS No. | Surrogate Recoveries | MS | MSD | TC | 15248-9 | Limits | | | |
| 460-00-4 98-08-8 | 4-Bromofluorobenzene aaa-Trifluorotoluene | 91% 87% | 89% 90% | 75% 85% | | 52-127% 58-141% | | | |



^{* =} Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TC15248

Account:

GMSTXFU Geo Monitoring Services

Project:

G-Lact Battery 22

The QC reported here applies to the following samples:

Method: SW846 8015

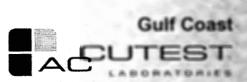
TC15248-6, TC15248-7, TC15248-8

| CAS No. | Compound | TC15248-6 mg/l Q | Spike mg/l | MS mg/l | MS % | MSD mg/l | MSD % | RPD | Limits Rec/RPD |
|---------------------|---|---------------------|---------------|------------|---------|--------------------|----------|-----|-------------------|
| | TPH-GRO (C6-C10) | 0.050 U | 0.4 | 0.453 | 113 | 0.454 | 114 | 0 | 73-122/15 |
| CAS No. | Surrogate Recoveries | MS | MSD | TC | 15248-6 | Limits | | | |
| 460-00-4 98-08-8 | 4-Bromofluorobenzene aaa-Trifluorotoluene | 93% 91% | 94% 94% | 78% 86% | - | 52-127% 58-141% | _ | | |



^{* =} Outside of Control Limits.

Section 8



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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- · Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Number: TC15248

Account:

GMSTXFU Geo Monitoring Services

Project:

G-Lact Battery 22

| Sample | File ID DF | Analyzed | By | Prep Date 08/28/12 | Prep Batch | Analytical Batch |
|------------|--------------|----------|----|--------------------|------------|------------------|
| OP24916-MB | CC227568.D 1 | 08/30/12 | FO | | OP24916 | GCC1393 |
| | | | | | | |

The QC reported here applies to the following samples:

Method: SW846 8015 M

Units Q

TC15248-1, TC15248-2, TC15248-3, TC15248-4, TC15248-5, TC15248-6, TC15248-7, TC15248-8, TC15248-9

CAS No. Compound Result RL MDL

TPH (C10-C28) ND 0.10 0.023 mg/l

CAS No. Surrogate Recoveries Limits

84-15-1 o-Terphenyl 85% 25-112%

Blank Spike/Blank Spike Duplicate Summary

Job Number: TC15248

Account:

GMSTXFU Geo Monitoring Services

Project:

G-Lact Battery 22

| Sample | File ID DF | Analyzed | By | Prep Date 08/28/12 08/28/12 | Prep Batch | Analytical Batch |
|--------------------------|--------------|----------|----|-----------------------------|------------|------------------|
| OP24916-BS | CC227566.D 1 | 08/30/12 | FO | | OP24916 | GCC1393 |
| OP24916-BSD ^a | CC227567.D 1 | 08/30/12 | FO | | OP24916 | GCC1393 |
| | | | | | | |

The QC reported here applies to the following samples:

Method: SW846 8015 M

TC15248-1, TC15248-2, TC15248-3, TC15248-4, TC15248-5, TC15248-6, TC15248-7, TC15248-8, TC15248-9

| CAS No. | Compound | Spike mg/l | BSP mg/l | BSP % | BSD mg/l | BSD % | RPD | Limits Rec/RPD |
|---------|----------------------|---------------|-------------|----------|-------------|----------|-----|-------------------|
| | TPH (C10-C28) | 1 | 0.868 | 87 | 0.970 | 97 | 11 | 41-105/30 |
| CAS No. | Surrogate Recoveries | BSP | BSI | D | Limits | | | |
| 84-15-1 | o-Terphenyl | 90% | 102 | % | 25-1129 | 6 | | |

(a) Insufficient sample volume for MS/MSD



^{* =} Outside of Control Limits.



| General | Chemis | trv |
|---------|--------|-----|
| | | J |

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries



METHOD BLANK AND SPIKE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: TC15248 Account: GMSTXFU - Geo Monitoring Services Project: G-Lact Battery 22

| Analyte | Batch ID | RL | MB Result | Units | Spike Amount | BSP Result | BSP %Recov | QC Limits |
|-------------------------|-----------------|------|--------------|-------|-----------------|---------------|---------------|--------------|
| Chloride | GP20599/GN44663 | 0.50 | 0.0 | mg/1 | 10 | 10.9 | 109.0 | 90-110% |
| Chloride | GP20600/GN44668 | 0.50 | 0.0 | mg/l | 10 | 10.1 | 101.0 | 90-110% |
| Solids, Total Suspended | GN44617 | 2.0 | 0.0 | mg/l | 500 | 482 | 96.4 | 80-120% |
| Sulfate | GP20599/GN44663 | 0.50 | 0.0 | mg/l | 10 | 10.9 | 109.0 | 90-110% |
| Sulfate | GP20600/GN44668 | 0.50 | 0.0 | mg/l | 10 | 10.3 | 103.0 | 90-110% |

Associated Samples:
Batch GN44617: TC15248-1, TC15248-2, TC15248-3, TC15248-4, TC15248-5, TC15248-6, TC15248-7, TC15248-8, TC15248-9
Batch GP20599: TC15248-1, TC15248-3, TC15248-5, TC15248-6, TC15248-8
Batch GP20600: TC15248-2, TC15248-4, TC15248-7, TC15248-9

(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: TC15248 Account: GMSTXFU - Geo Monitoring Services Project: G-Lact Battery 22

| Analyte | Batch ID | QC Sample | Units | Original Result | DUP Result | RPD | QC Limits |
|-------------------------|-----------------|--------------|-------|--------------------|---------------|-----|--------------|
| Chloride | GP20599/GN44663 | TC15150-1 | mg/l | 37.3 | 37.5 | 0.5 | 0-13% |
| Chloride | GP20600/GN44668 | TC15150-5 | mg/l | 163 | 163 | 0.0 | 0-13% |
| Solids, Total Suspended | GN44617 | TC15248-9 | mg/l | 157 | 151 | 3.9 | 0-22% |
| Sulfate | GP20599/GN44663 | TC15150-1 | mg/l | 25.7 | 26.1 | 1.5 | 0-20% |
| Sulfate | GP20600/GN44668 | TC15150-5 | mg/l | 128 | 128 | 0.0 | 0-20% |

Associated Samples:
Batch GN44617: TC15248-1, TC15248-2, TC15248-3, TC15248-4, TC15248-5, TC15248-6, TC15248-7, TC15248-8, TC15248-9
Batch GP20599: TC15248-1, TC15248-3, TC15248-5, TC15248-6, TC15248-8
Batch GP20600: TC15248-2, TC15248-4, TC15248-7, TC15248-9
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: TC15248
Account: GMSTXFU - Geo Monitoring Services
Project: G-Lact Battery 22

| Analyte | Batch ID | QC Sample | Units | Original Result | Spike Amount | MS Result | %Rec | QC Limits |
|---------------------------------|---|-------------------------------------|----------------------|---------------------|-----------------|---------------------|------------------------|-------------------------------|
| Chloride Chloride Sulfate | GP20599/GN44663 GP20600/GN44668 GP20599/GN44663 | TC15150-1 TC15150-5 TC15150-1 | mg/l mg/l mg/l | 37.3 163 25.7 | 50 200 50 | 91.9 383 75.4 | 109.2 110.0 99.4 | 90-110% 90-110% 90-110% |
| Sulfate | GP20600/GN44668 | TC15150-5 | mg/l | 128 | 200 | 329 | 100.5 | 90-110% |

Associated Samples:
Batch GP20599: TC15248-1, TC15248-3, TC15248-5, TC15248-6, TC15248-8
Batch GP20600: TC15248-2, TC15248-4, TC15248-7, TC15248-9
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits