

March 22, 2012

Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6540

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SUBJECT: Report Statement
Quarterly Groundwater Monitoring Report #3
Former Oakland Truck Center Site
8099 South Coliseum Way
Oakland, California
CASE # RO0001389
Facility Global ID# T0600101692

To Whom It May Concern:

Argonaut Holdings, LLC (Argonaut), is the owner of the property located at 8099 South Coliseum Way in Oakland, California. Attached please find the third quarterly groundwater monitoring report for the property located at 8099 South Coliseum Way in Oakland, California.

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

If you have any questions please contact Marilyn Dedyne at 313-506-9461, or our authorized agent, Chuck Dittmar of ARCADIS at (810)-225-1966.

Sincerely,



Mark R. Sloan
President, Argonaut Holdings, LLC

Leaking Underground Storage Tank Site Quarterly Monitoring Report #3


Former Oakland Truck Center
8099 South Coliseum Way
Oakland, California 94621
Case ID RO-0001389

Field Work Dates: June 16 and 17, 2011

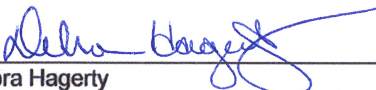
**Prepared on Behalf of Argonaut
Holdings, Inc.**

**Prepared for the Alameda County
Health Care Services Agency**

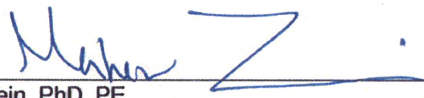
ARCADIS



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**Leaking Underground Storage
Tank Site Quarterly Monitoring
Report #3**

Former Oakland Truck Center
Oakland, CA

Field Work Dates: June 16 and
17, 2011

Prepared on Behalf of:
Argonaut Holdings, Inc.

Prepared for:
Alameda County Health Care Services
Agency

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Our Ref.:
B0064601.0000.00008

Date:
September 26, 2011

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1. Introduction

On behalf of Argonaut Holdings, Inc., ARCADIS U.S., Inc. (ARCADIS) is submitting this *Leaking Underground Storage Tank Site Quarterly Monitoring Report #3* for the Former Oakland Truck Center (hereafter referred to as the "Site") located in Oakland, California (Figure 1). One 500-gallon used oil underground storage tank (UST), one 1,000-gallon used oil UST, one 2,000-gallon unleaded gasoline UST, and one 2,000-gallon diesel fuel UST were installed in 1980 in two separate excavations west of the Main Site Building. According to previous reports (Clayton, 1993a and 1993b), the four USTs were removed on August 5, 1993. Based on analytical results from soil samples collected during UST removal activities, a UST Unauthorized Release/Contamination Site Report was filed with the Alameda County Health Care Services Agency (ACHCSA) on August 10, 1993. In June 2007, the ACHCSA approved a monitored natural attenuation approach and requested quarterly sampling and monitoring of the existing groundwater monitoring wells. The purpose of the investigation was to evaluate groundwater quality at the Site to support the efforts to pursue closure of the open Leaking Underground Storage Tank (LUST) Case ID RO-0001389 as requested by the ACHCSA in June 2007. In October 2010, quarterly monitoring of the site monitoring wells was initiated in order to pursue closure of the LUST case. The results presented in this report represent the data collected during the third quarterly monitoring event.

2. Background

Site description, assessment history, geologic and hydrogeologic settings, and previous remedial activities performed at the Site are discussed in the following subsections. Please refer to Figure 2 for the locations of the monitoring wells.

2.1 Site and Surrounding Area Description

The Site is an active new and used truck dealership and service facility located at 8099 South Coliseum Way in Oakland, California. It currently consists of two buildings: the Main Site Building and the Used Truck Center Trailer, situated on approximately 6.38 acres of land. Based on historical information, one former building existed on the eastern portion of the Site. The former building was owned and occupied by the California Department of Transportation (Caltrans) and was utilized as a maintenance facility.

The Site is zoned C-36/S-4, regional commercial. It is anticipated that future use of the Site will consist of commercial facilities. The Site is bounded by South Coliseum Way to the north and by Caltrans property to the east, south, and west. Surrounding properties are comprised of commercial uses. Based on a search of local and regional water agency records performed by Environmental Data Resources (EDR), there are no public supply wells within one mile of the Site. The nearest potential receptor is the San Leandro Bay, which is located approximately 3,500 feet west of the Site.

2.2 Site Assessment History

As mentioned earlier, four USTs were installed in 1980 in two separate excavations west of the Main Site Building. According to previous reports (Clayton, 1993a), the four USTs were removed on August 5, 1993. Based on analytical results from soil samples collected during UST removal activities, a UST Unauthorized Release/Contamination Site Report was filed with ACHCSA on August 10, 1993. This report identified corroded, leaky pipes and overfilling of the USTs as the main sources of site-related constituents of concern (COCs). Impacted soils surrounding the USTs were excavated and disposed of off-site.

Several subsurface investigations, hydrogeologic evaluations, a risk assessment, and a remediation feasibility study were conducted by Fluor Daniel GTI (FD-GTI) in 1993, 1995, 1996, and 1997 (please refer to the references section for a list of previous reports for historical investigations) prior to Phase II Environmental Site Assessment (ESA) activities completed by ARCADIS (operating as Encore Environmental

Consortium, LLC, or EEC) in April 2008. Residual impacts to the soil in the vicinity of the former USTs were noted to be primarily of higher molecular weight total petroleum hydrocarbons (TPHs) and polynuclear aromatic hydrocarbons (PAHs). During the 1995 FD-GTI site investigation, several soil borings were advanced throughout the Site. Free phase hydrocarbon product was reportedly observed in soil boring SB-3, located near the oil/water separator east of the Main Site Building; consequently, a groundwater sample was not collected from this boring. However, a product sample was collected and analyzed for a hydrocarbon screen. TPH as mineral spirits was detected at 590,000 milligrams per kilogram (mg/kg) for the product sample collected from SB-3.

In addition, the investigations indicated the presence of a potential off-site source located to the east-southeast. Soil borings SB-7, SB-8, and SB-9 (installed by EEC in 2008) and SB-7A, SB-8A, SB-8A1, and SB-9A (installed by EEC in October 2010), all advanced in the southeastern portion of the Site, demonstrated that there does not appear to be an on-site source at this portion of the Site and that the impact observed in this area of the Site appears to have originated from the Caltrans property located immediately adjacent to the eastern and southeastern Site boundary. According to previous EEC reports, the Caltrans property is reported on the LUST and Contaminated Sites (CS) databases. Based on the general north-northwest groundwater flow direction at the Site (Figure 3), contaminant releases from this adjacent property would likely impact the Site.

2.3 Geology and Hydrology

2.3.1 Regional Geology

According to the United States Department of Agriculture's (USDA) Soil Conservation Service (SCS), regional data indicate that the surface soil texture in the area of the Site is variable. The soil component name is URBAN LAND. The soil hydrologic group and soil drainage classification are not reported. Soils do not meet the requirements for a hydric soil. The shallow and deeper soil types in the vicinity of the Site were not reported in the EDR report. Underlying the surface, shallow and deeper soils are bedrock deposits classified as Cenozoic Era, Quaternary System, and Quaternary Series.

2.3.2 Site Geology

During previous subsurface investigations, the soils encountered at the Site consisted primarily of fill material of sand, gravel, and clay from ground surface to approximately

9 feet below ground surface (bgs) and grayish-blue clay from approximately 9 to 20 feet bgs, with some interbedded sand and gravel layers throughout the top 20 feet.

2.3.3 Hydrology

In June 2011, groundwater levels in the eleven (11) site monitoring wells ranged from 3.70 to 8.09 feet below the top of casing (8.80 and 2.84 feet above mean sea level [amsl], respectively). According to the Aquifer Characterization Report prepared by FD-GTI on May 14, 1996, the aquifer material is comprised of a 4-foot thick sand and gravel bed located approximately between 12 and 18 feet bgs. These materials are most likely discontinuous stream channel deposits. Groundwater flow beneath the Site was previously reported to the north under a gradient of approximately 0.01 feet per foot. Based on water level measurements from the June 2011 groundwater monitoring event, the current groundwater flow is to the north-northwest.

A 24-hour constant rate pumping test was conducted at monitoring well MW-2 in April 1996 by FD-GTI to determine aquifer hydraulic properties; including hydraulic conductivity, transmissivity, storability, and specific yield. The aquifer properties ranged from 317 gallons per day per square foot (gpd/ft²) (42 feet per day [ft/d]) to 733 gpd/ft² (98 ft/d) for hydraulic conductivity; 1,270 gallons per day per foot (gpd/ft) (170 square feet per day [ft²/d]) to 2,930 gpd/ft (392 ft²/d) for transmissivity; 0.006 to 0.00006 for storability; and 4 to 5 gallons per minute (gpm) for specific yield with a 5-foot drawdown in MW-2. The relatively high hydraulic conductivity values measured during the pump test were representative of the sand and gravel layer observed at some of the groundwater monitoring well locations at the Site. FD-GTI concluded that the presence of finer grained layers would significantly affect groundwater flow at the Site.

2.4 Previously Approved Remedial Approach

The risk assessment completed by FD-GTI in January 1997 included a remedial approach for the Site that consisted of intrinsic bioremediation and monitoring (termed “monitored natural attenuation”). FD-GTI also proposed placing a deed restriction against constructing buildings in the vicinity of MW-3, based on the observed benzene concentrations that exceeded the calculated Site Specific Target Level (SSTL). In June 2007, the ACHCSA approved the monitored natural attenuation approach and requested quarterly sampling and monitoring of the eight then-existing groundwater monitoring wells (MW-1 through MW-8). Requirements included monitoring bioremediation parameters such as dissolved oxygen (DO), oxidation-reduction potential (ORP), nitrate, sulfate, alkalinity, and ferrous iron, in addition to benzene, toluene, ethylbenzene, and xylenes (collectively known as BTEX), TPH as diesel (TPH-

d), TPH as motor oil (TPH-o), and TPH as gasoline (TPH-g). ACHCSA also requested sampling at the drainage ditch located adjacent to the downgradient site boundary. In July 2009, ARCADIS collected two sediment samples, SW-2 and SW-3 from the ditch located at the northwestern portion of the Site. In addition, a surface water sample was collected from SW-3. TPH-o and TPH were detected in SW-2 at 300 mg/kg and 41 mg/kg, respectively. TPH-o was detected in SW-3 at 420 mg/kg. TPH was not detected in the surface water or sediment samples collected from SW-3. The detected concentrations did not exceed the San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Commercial Soil or Surface Water Environmental Screening Levels (ESLs). Volatile organic compounds (VOCs) were not detected above laboratory reporting limits in sediment samples SW-2 and SW-3 and surface water sample SW-3. Also as part of the July 2009 site activities, three additional groundwater monitoring wells (MW-9, MW-10, and MW-11) were installed northwest of the impacted area to determine if contaminants had migrated downgradient from the former UST basins.

3. Investigation Activities

The following subsections present pre-field activities, groundwater monitoring activities, analytical results, and data evaluation.

3.1 Pre-Field Activities

Pursuant to the Code of Federal Regulations (CFR), Title 29, Section 1910.120 and the California Code of Regulations (CCR) Title 8, Section 5192, ARCADIS prepared a site-specific Health and Safety Plan (HASP) prior to the initial monitoring event to address health and safety concerns related to the groundwater monitoring activities conducted at the Site. The HASP was developed to identify and control potential hazards in order to minimize exposures of workers involved in the environmental assessment activities to site-related COCs. Pre-field activities included coordinating field work with the client, analytical laboratory, and Site personnel; notifying the ACHCSA of site activities prior to commencement; and reviewing monitoring plan and the HASP prior to mobilizing to the Site.

3.1.1 Groundwater Sampling

ARCADIS mobilized to the Site on June 16 and 17, 2011 to measure depth to groundwater and to collect groundwater samples from the eleven (11) existing groundwater wells. Groundwater was encountered between 3.70 to 8.09 feet below the top of casing (8.80 and 2.84 feet amsl, respectively) in the monitoring wells during this monitoring event. Please refer to Figure 3 for a potentiometric surface map. ARCADIS prepared hydrographs depicting groundwater elevation, TPH, and MTBE (where applicable) concentration trends for each of the groundwater monitoring wells. Groundwater elevation trends generally indicate more pronounced seasonal fluctuations in the monitoring wells located in the southern portion of the Site, as compared to the wells installed at the northern portion of the Site. Groundwater elevation and select COC concentration trends in monitoring wells MW-1 through MW-11 are included in Appendix D.

Low flow sampling techniques using a peristaltic pump and dedicated polyethylene tubing were utilized to collect groundwater samples from each of the monitoring wells. Groundwater samples were collected in preserved laboratory-supplied containers, stored on ice, and shipped overnight to ESC Lab Sciences in Mt. Juliet, Tennessee for analysis. During well purging, the following groundwater measurements were recorded: depth to water, depth to bottom of the well, pH, temperature, ORP, DO,

turbidity, and specific conductivity. Field data of each groundwater monitoring well are summarized in Table 1.

3.1.2 Analytical Methods

Groundwater analyses were selected based on the potential source(s) of contamination (used oil, unleaded gasoline, and diesel fuel). All collected groundwater samples were analyzed for TPH-Low Fraction and TPH Diesel Range Organics (TPH-DRO; C10-C22, C22-C32, and C32-C40) by Environmental Protection Agency (EPA) Method 8015 and VOCs by EPA Method 8260B. In addition, groundwater samples from MW-1 through MW-11 were analyzed for alkalinity by Standard Method (SM) 2320B, sulfate and nitrogen by EPA Method 9056, phosphate by EPA Method 365.1, and ferrous iron by SM Fe-3500.

3.1.3 Quality Assurance/ Quality Control

ARCADIS employed quality assurance/quality control (QA/QC) procedures in accordance with the ARCADIS Field Health and Safety Handbook (August 2010) and ARCADIS Procedures which detail standard operating procedures (SOPs) for the primary field activities. One duplicate sample, intended to assess the precision of the laboratory analyses, was collected from monitoring well MW-3. This represents a duplicate frequency of approximately 10% relative to the total number of wells sampled. The duplicate followed the same analytical protocols as the primary sample. Trip blanks were also collected; however, these samples were put on hold pending the analytical results of the primary samples. Trip blank were only to be analyzed for VOCs if the primary sample data were suspected to be erroneous. Related QA/QC guidance and procedures were employed for the following activities:

- Data recording / field books,
- Groundwater sample collection for laboratory analysis,
- Sample handling and shipping,
- Usage and calibration of field instruments, and
- Equipment decontamination.

3.1.4 Decontamination Procedures

Prior to sampling, all non-disposable sampling equipment was decontaminated using a phosphate-free detergent solution, and then rinsed with tap water. Disposable

sampling equipment (including Nitrile gloves, plastic bags, and groundwater sample collection polyethylene tubing) was disposed of outside the sampling area in order to prevent cross-contamination of groundwater samples.

3.1.5 Analytical Results

Laboratory analytical results for the collected groundwater samples are summarized in Table 2. Groundwater concentrations of TPH-DRO and VOCs that exceed the selected screening criteria are presented on Figure 4. Groundwater TPH concentrations were compared to the SFRWQCB ESLs. Cleanup criteria for VOCs are based on City of Oakland Risk-Based Screening Level (RSBLs), SFRWQCB ESLs, and California Department of Public Health (DPH) Maximum Contaminant Levels (MCLs) for groundwater. An MCL is defined as the highest concentration of a contaminant that is allowed in drinking water. Groundwater analytical results are discussed below.

3.2.6.1 TPH

TPH-Low Fraction was not detected above the laboratory detection limits in any of the collected groundwater samples.

TPH-DRO C10-C22 was detected at concentrations ranging between 0.19 milligrams per liter (mg/L) (MW-11) and 1.4 mg/L (MW-6), exceeding the 0.21 mg/L SFRWQCB ESL in all of the monitored wells, with the exception of MW-3 primary sample and MW-11. TPH-DRO C22-C32 was detected at concentrations ranging between an estimated¹ 0.045 mg/L (MW-8 and MW-10) and 0.25 mg/L (MW-6); exceeding the 0.21 mg/L SFRWQCB ESL only in well MW-6. TPH-DRO C32-C40 was detected only in one of the monitored well (MW-6 at an estimated 0.034 mg/L), not exceeding the 0.21 mg/L SFRWQCB ESL for TPH-DRO C32-C40. However, hydrographs depicting TPH concentrations during the past three monitoring events indicate an overall decreasing trend of TPH at the Site independent of the water level trends in the monitoring wells (Appendix D).

¹ Analyte concentrations are reported as estimated by the laboratory when the sample concentration is higher than the method detection limit but lower than the method reporting limit. Estimated analyte concentrations are flagged with a "J" on the laboratory analytical reports included as Appendix C.

3.2.6.2 VOCs

None of the VOCs analyzed for were detected above the laboratory detection limits in the groundwater samples collected from monitoring wells MW-1, MW-4, MW-8, MW-9, MW-10, and MW-11. Several VOCs; including cyclohexane, methyl tert-butyl ether (MTBE), and 1,1-dichloroethene (1,1-DCE); were detected in monitoring wells MW-2, MW-3, MW-5, and MW-7. However, all measured concentrations were below applicable SFRWQCB ESLs, California DPH MCLs, and City of Oakland RBSLs for Ingestion of Groundwater. MTBE was detected in the groundwater sample collected from MW-6 at a concentration of 21 micrograms per liter ($\mu\text{g/L}$), which exceeds the California DPH MCLs and City of Oakland RBSLs of 13 $\mu\text{g/L}$. MTBE was also detected in the groundwater samples collected from MW-2 (4.0 $\mu\text{g/L}$), MW-5 (10 $\mu\text{g/L}$), and MW-7 (1.5 $\mu\text{g/L}$). Cyclohexane was detected in one well (MW-7) at an estimated concentration of 0.87 $\mu\text{g/L}$. 1,1-DCE was detected in the groundwater sample collected from MW-3 at an estimated concentration of 0.93 $\mu\text{g/L}$. Monitoring wells MW-5 and MW-6 are both located in the vicinity of the former gasoline and diesel USTs.

3.2.6.3 Intrinsic Bioremediation/Natural Attenuation

As mentioned earlier, groundwater samples were also analyzed for alkalinity, sulfate, nitrogen, phosphate, and ferrous iron to determine if natural attenuation was occurring at the Site. In addition, pH, specific conductivity, ORP, turbidity, and DO were monitored during groundwater monitoring well purging. Alkalinity in the monitoring wells ranged from 430 mg/L (MW-8) to 1,900 mg/L (MW-1). Ferrous iron concentrations ranged from 0.22 mg/L (MW-2) to 38 mg/L (MW-6). Sulfate concentrations ranged from non-detect (MW-1, MW-4, MW-6, MW-7, and MW-8) to 400 mg/L (MW-11). Phosphate concentrations ranged from 0.52 mg/L (MW-5) to 6.0 mg/L (MW-9). Nitrate (as nitrogen) was detected in only two monitoring wells at concentrations of 0.14 mg/L (MW-2) and 0.35 mg/L (MW-5). DO concentrations ranged from 0.28 mg/L (MW-4) to 0.93 mg/L (MW-10). pH ranged from 7.00 (MW-6) to 7.85 (MW-2). Specific conductivity values ranged from 0.9190 Siemens per meter (S/m) (MW-8) to 13.60 S/m (MW-2). Negative ORP values, ranging from -182 millivolts (mV) (MW-10) to -110.0 mV (MW-11), were measured in all monitoring wells. Finally, turbidity was observed to range from stable (0.00 Nephelometric Turbidity Units [NTU]) in the groundwater sampled collected from monitoring wells MW-2, MW-6, MW-7, and MW-8 to 32.9 NTU in MW-5.

3.2 Data Evaluation

Analytical data collected during the groundwater investigation activities were compared to historical data to identify any concentration trends in groundwater and to obtain an overall status of the impact to groundwater at the Site.

Historical groundwater analytical results indicated that, based on the majority of the samples which contained total dissolved solids (TDS) concentrations in excess of 3,000 mg/L, the shallow groundwater under the Site was not suitable for drinking water use. The groundwater samples collected for these quarterly monitoring events were not analyzed for TDS.

The bioremediation parameter data indicated that intrinsic bioremediation is occurring at the Site. The ferrous iron data was not taken into consideration as an indication of microbial activity because the analyses were performed close to the analytical methods' holding times and therefore, there is some uncertainty in this data. However, the relatively low nitrate, sulfate, and phosphate concentrations throughout the Site are likely due to assimilation and use to support microbial growth in the areas with previously higher impacts. In addition, the lower pH and DO concentrations in areas of higher TPH concentrations at the Site are also indicative of increased microbial activity in these areas. As the microorganisms aerobically biodegrade organic COCs, they utilize DO (lowering DO levels in the groundwater) and generate slightly acidic waste byproducts (lowering the pH).

When compared to the first and second quarterly groundwater monitoring events (performed during the fourth quarter of 2010 [ARCADIS, 2011a] and first quarter of 2011 [ARCADIS, 2011b], respectively), TPH concentrations in the groundwater samples collected during the third quarterly monitoring event are generally lower, indicating a decreasing trend independent of groundwater elevation in the monitoring wells. On the other hand, MTBE concentrations in monitoring wells MW-5 and MW-6 appear to be fluctuating, possibly due to seasonal fluctuations in groundwater levels. The concentrations of MTBE in both wells have increased slightly during the June 2011 monitoring event, but only exceeding the 13 µg/L screening criterion in MW-6.

4. Conclusions and Recommendations

The purpose of this groundwater investigation was to assess the current groundwater conditions at the Site to support the efforts to pursue closure of open LUST Case ID RO-0001389.

4.1 Conclusions

The eleven groundwater monitoring wells at the Site were sampled for VOCs, TPH, and intrinsic bioremediation parameters. TPH and VOCs were detected in several of the groundwater monitoring wells, at concentrations which indicate an overall decreasing trend, with no COCs exceeding the screening criteria in MW-11 (the monitoring well located at the downgradient edge of the Site). All the VOCs analyzed for, with the exception of MTBE in MW-6, were detected at concentrations below the corresponding screening criteria in the monitoring wells. The TPH constituents, detected at low concentrations in several of the groundwater samples, are likely weathered residual components of the petroleum products released to the subsurface in the past and are an indication of intrinsic bioremediation occurring at the Site. Based on the results of this site investigation, ARCADIS concludes that intrinsic bioremediation has been occurring at the Site. The Site is capped with asphalt and concrete, and the current and future land use is commercial. No drinking water supply wells are located on-site or within one mile of the Site, and on-site TDS data previously collected in 2009 indicate that the groundwater at the Site is not suitable for potable use.

4.2 Recommendations

Based on the results of this site investigation and the anticipated future use of the Site for commercial or light industrial purposes, ARCADIS recommends continuing quarterly groundwater monitoring for one additional quarter to continue to evaluate trends in TPH and VOC concentrations, along with the bioremediation parameters monitored during this sampling event. Should the trends in TPH and VOC concentrations remain stable or decrease over the proposed quarterly monitoring period, ARCADIS will recommend applying for a "Low Risk Closure" status for the Site, and will request a "No Further Action" letter from the ACHCSA for the Site. The "Low Risk Closure" status may include a deed notice or land use restriction based on the conditions documented from previous assessments and during the quarterly groundwater monitoring at the Site.

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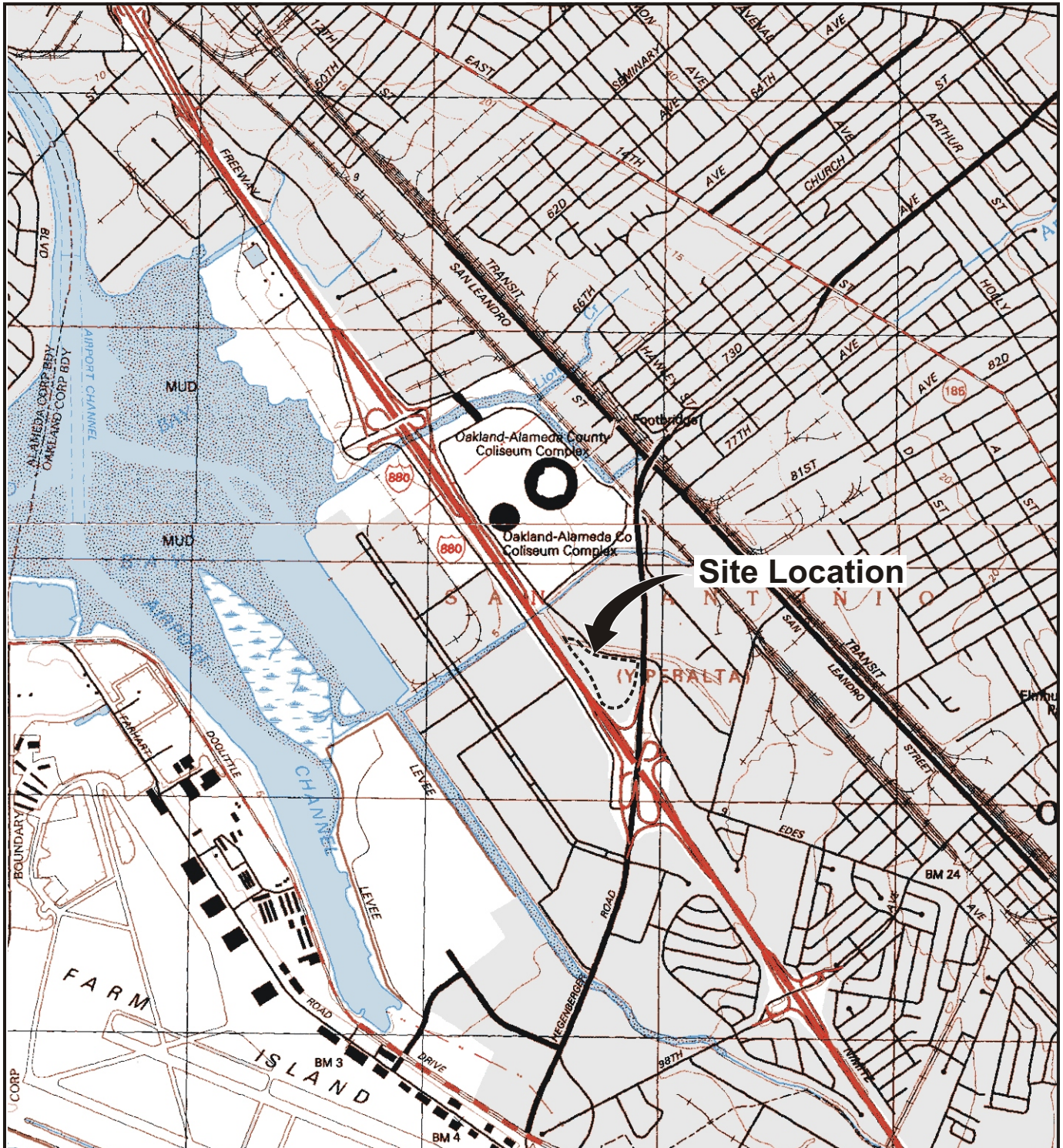
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ARCADIS. 2011a. Quarterly Monitoring Report #1, Former Oakland Truck Center, 8099 South Coliseum Way, Oakland, CA 94621, Case ID RO-0001389; June 10.

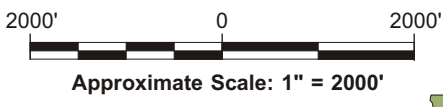
ARCADIS. 2011b. Quarterly Monitoring Report #2, Former Oakland Truck Center, 8099 South Coliseum Way, Oakland, CA 94621, Case ID RO-0001389; August 3.

Appendix A

Figures

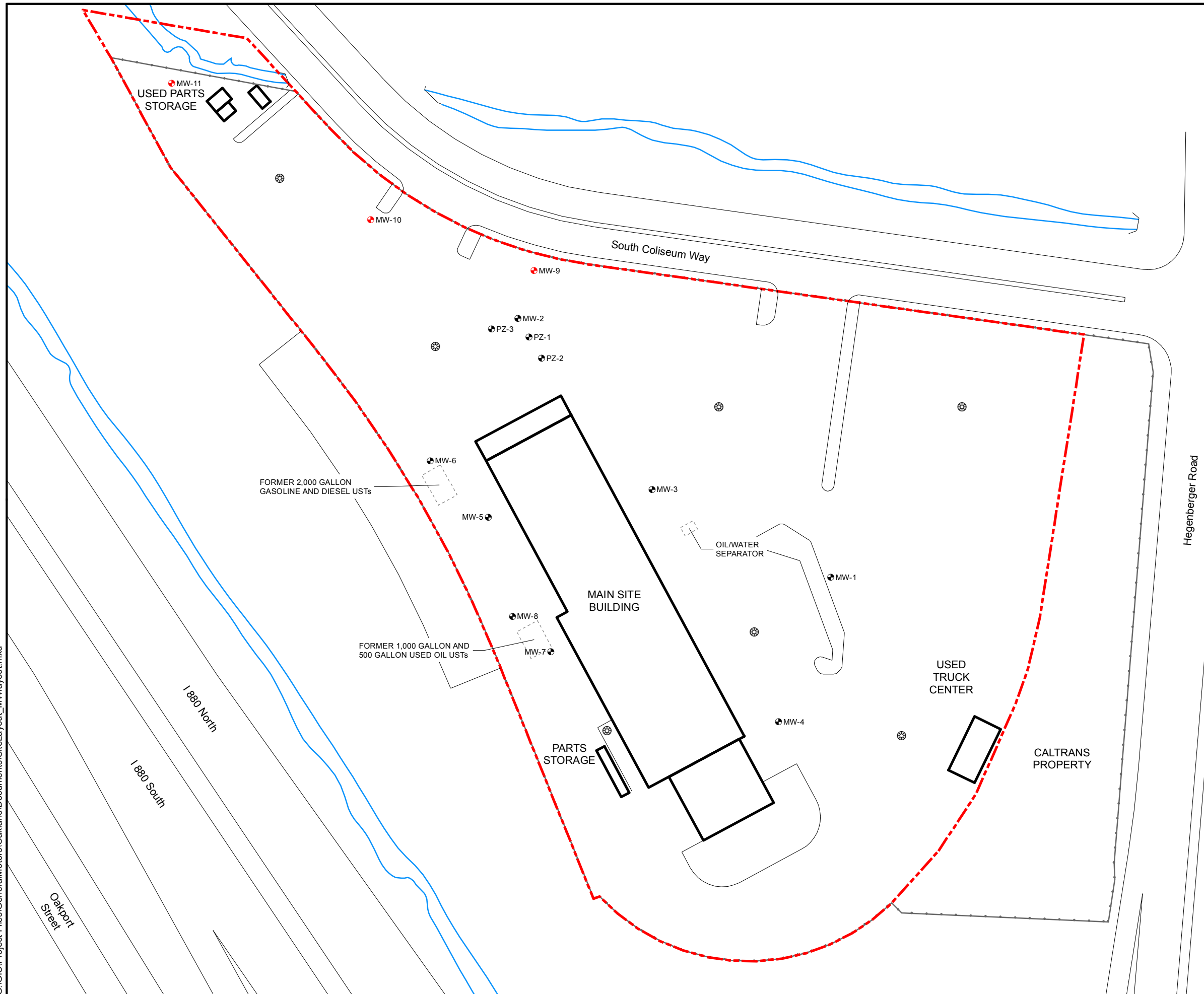


REFERENCE: BASE MAP USGS 7.5 MIN. QUADS. OAKLAND EAST, CA. 1997, AND SAN LEANDRO, CA. 1993.









| | |
|---|--------------------|
| FORMER OAKLAND TRUCK CENTER 8099 SOUTH COLISEUM WAY OAKLAND, CA 94621 | |
| SITE LOCATION MAP | |
| | FIGURE 1 |

05/17/2011 SYRACUSE-141ENV.D.J.HOWES
B0064601/0000/00008/CDR/64601N01.CDR

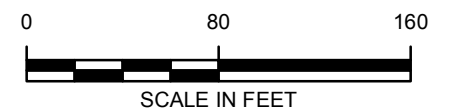


LEGEND

-  MONITORING WELL (ARCADIS; JULY 2009)
-  MONITORING WELL LOCATION (FLUOR; MARCH 1996)
-  STORMWATER DRAIN
-  DITCH
-  FENCE
-  PROPERTY BOUNDARY

NOTE:

MONITORING WELL LOCATIONS (MW-1 THROUGH MW-11) WERE SURVEYED ON JULY 28, 2009.



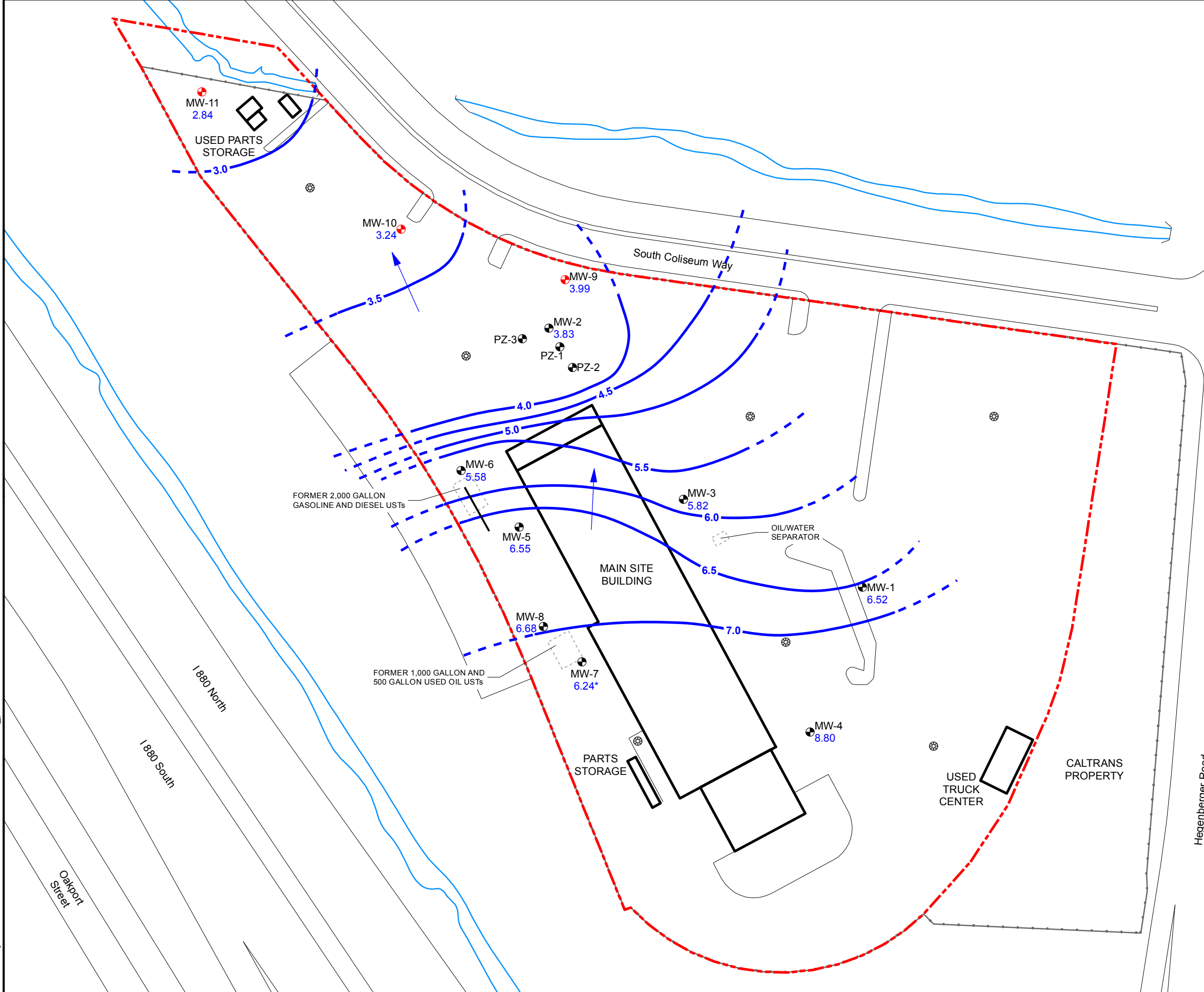
FORMER OAKLAND TRUCK CENTER
8099 SOUTH COLISEUM WAY
OAKLAND, CALIFORNIA 94621

**SITE MAP SHOWING
MONITORING WELL LOCATIONS**



FIGURE

2

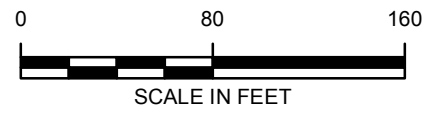


LEGEND

- MONITORING WELL (ARCADIS; JULY 2009)
- MONITORING WELL LOCATION (FLUOR; MARCH 1996)
- STORMWATER DRAIN
- DITCH
- FENCE
- PROPERTY BOUNDARY
- 3.5 POTENTIOMETRIC ELEVATION CONTOUR
- INFERRED POTENTIOMETRIC ELEVATION CONTOUR
- 6.25** GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- GROUNDWATER FLOW DIRECTION
- *** ELEVATION NOT USED IN CONTOURING

NOTE:

1. SOIL BORING LOCATIONS ARE APPROXIMATE.
2. MONITORING WELL LOCATIONS (MW-1 THROUGH MW-11) WERE SURVEYED ON JULY 28, 2009.



FORMER OAKLAND TRUCK CENTER
8099 SOUTH COLISEUM WAY
OAKLAND, CALIFORNIA 94621

**POTENTIOMETRIC
SURFACE MAP - JUNE 2011**



FIGURE

3

PROJECT NUMBER: B006460
CITY: NOVI DIV/GROUP: ENV DB: PIC: PM: TM: TR:
G:\GIS\Project Files\GeneralMotors\Oakland\Documents\201106_potentiometric surface.mxd



LEGEND

- MONITORING WELL (ARCADIS; JULY 2009)
- MONITORING WELL LOCATION (FLUOR; MARCH 1996)
- STORMWATER DRAIN
- DITCH
- FENCE
- PROPERTY BOUNDARY
- J ESTIMATED VALUE ABOVE THE METHOD DETECTION LIMIT AND BELOW THE REPORTING LIMIT
- <0.033 ANALYTE NOT DETECTED AT OR ABOVE THE INDICATED LABORATORY REPORTING LIMIT
- [0.24]** DUPLICATE RESULTS SHOWN IN BRACKETS

NOTES:

ONLY VOCs DETECTED ABOVE SCREENING CRITERIA ARE INCLUDED

BOLD VALUES INDICATE ANALYTE CONCENTRATIONS EXCEEDING SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD ENVIRONMENTAL SCREENING LEVELS FOR GROUNDWATER.

ITALICIZED VALUES INDICATE ANALYTE CONCENTRATIONS EXCEEDING CALIFORNIA DEPARTMENT OF HEALTH SERVICES DRINKING WATER MAXIMUM CONTAMINANT LEVELS AND OAKLAND TIER 1 RISK-BASED SCREENING LEVELS FOR INJECTION OF GROUNDWATER (COMMERCIAL/INDUSTRIAL).

| | TPH | | | VOC (ug/L) |
|---|---------|---------|---------|------------|
| | C10-C22 | C22-C32 | C32-C40 | MTBE |
| San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels for Groundwater | 0.21 | 0.21 | 0.21 | --- |
| California Department of Health Services Drinking Water Maximum Contaminant Levels (MCLs) | --- | --- | --- | 13 |
| Oakland Tier 1 RBLS for Ingestion of Groundwater (Commercial/Industrial) | --- | --- | --- | 13 |



FORMER OAKLAND TRUCK CENTER
8099 SOUTH COLISEUM WAY
OAKLAND, CALIFORNIA 94621

TPH & VOC GROUNDWATER CONCENTRATIONS EXCEEDING SCREENING CRITERIA



FIGURE

4

| Date | TPH DRO (mg/L) | | |
|------------|----------------|-------------|---------|
| | C10-C22 | C22-C32 | C32-C40 |
| 10/29/2010 | 0.74 | 0.28 | 0.097 J |
| 3/21/2011 | 0.20 | 0.18 | <0.033 |
| 6/16/2011 | 0.19 | 0.12 | <0.033 |

| Date | TPH DRO (mg/L) | | |
|------------|----------------|---------|---------|
| | C10-C22 | C22-C32 | C32-C40 |
| 10/29/2010 | 0.33 | 0.034 J | <0.033 |
| 3/21/2011 | 0.21 | 0.11 | <0.033 |
| 6/16/2011 | 0.22 | 0.045 J | <0.033 |

| Date | TPH DRO (mg/L) | | |
|------------|----------------|-------------|---------|
| | C10-C22 | C22-C32 | C32-C40 |
| 10/29/2010 | 1.0 | 0.32 | 0.11 |
| 3/21/2011 | 0.32 | 0.15 | <0.033 |
| 6/16/2011 | 0.37 | 0.054 J | <0.033 |

| Date | TPH DRO (mg/L) | | |
|------------|----------------|-------------|---------|
| | C10-C22 | C22-C32 | C32-C40 |
| 10/29/2010 | 1.0 | 0.25 | 0.09 J |
| 3/21/2011 | 0.48 | 0.22 | <0.033 |
| 6/16/2011 | 0.42 | 0.059 J | <0.033 |

| Date | TPH DRO (mg/L) | | | VOC (ug/L) | |
|------------|------------------|--------------------|-------------|------------|--|
| | C10-C22 | C22-C32 | C32-C40 | MTBE | |
| 10/29/2010 | 7.5 | 3.6 | 0.71 | 78 | |
| 3/21/2011 | 2.5 [2.5] | 0.83 [0.88] | 0.11 [0.14] | 8.3 [8.1] | |
| 6/17/2011 | 1.4 | 0.25 | 0.034 J | 21 | |

| Date | TPH DRO (mg/L) | | |
|------------|----------------|----------------|----------------|
| | C10-C22 | C22-C32 | C32-C40 |
| 11/23/2010 | 2.0 | 0.77 | 0.21 |
| 3/21/2011 | 0.26 | 0.14 | <0.033 |
| 6/17/2011 | 0.20 [0.24] | 0.078 J [0.11] | <0.033 [0.033] |

| Date | TPH DRO (mg/L) | | |
|------------|----------------|-------------|---------|
| | C10-C22 | C22-C32 | C32-C40 |
| 10/29/2010 | 1.7 | 0.55 | 0.16 |
| 3/21/2011 | 0.80 | 0.32 | <0.033 |
| 6/16/2011 | 0.48 | 0.07 J | <0.033 |

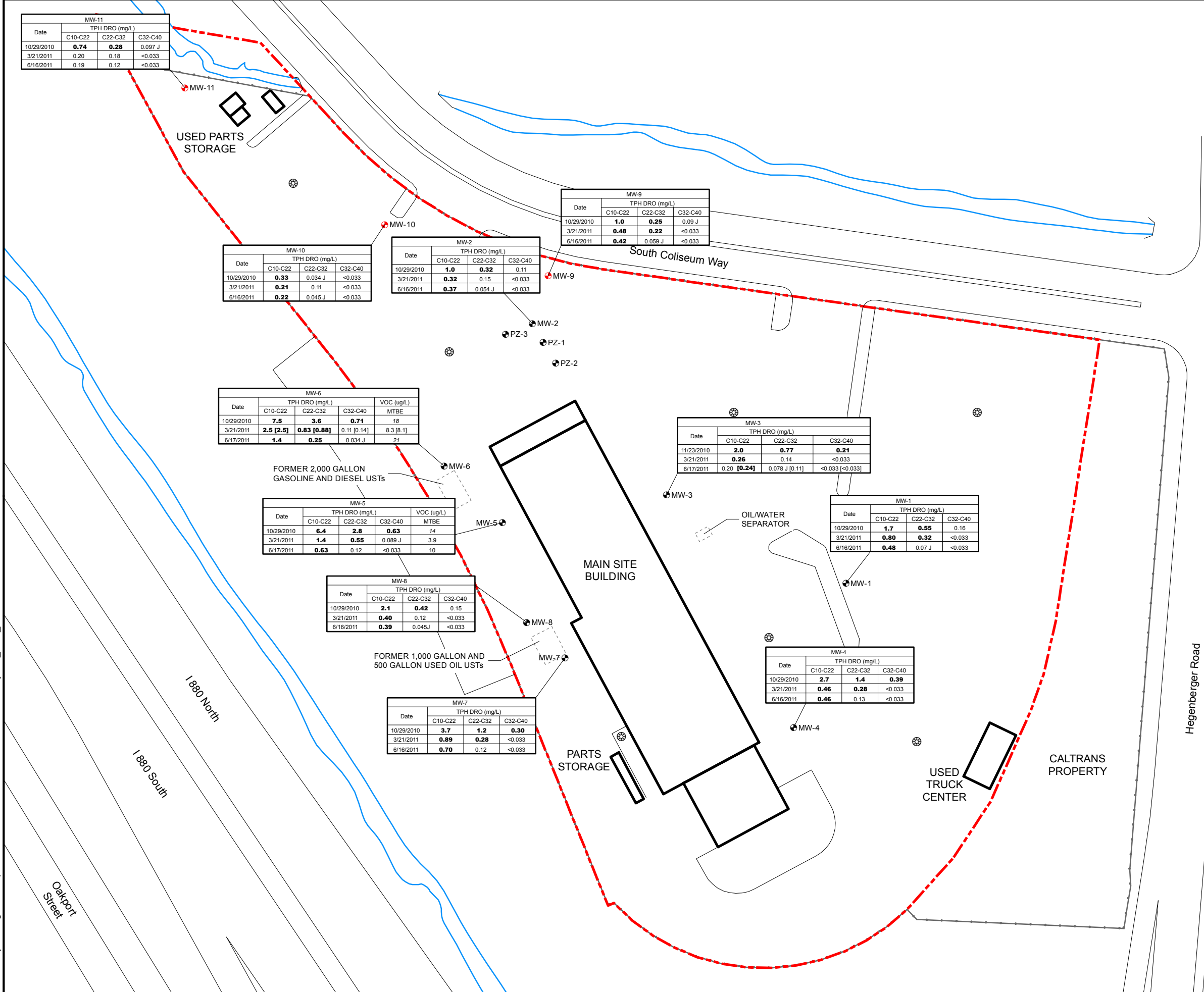
| Date | TPH DRO (mg/L) | | | VOC (ug/L) | |
|------------|----------------|-------------|-------------|------------|--|
| | C10-C22 | C22-C32 | C32-C40 | MTBE | |
| 10/29/2010 | 6.4 | 2.8 | 0.63 | 14 | |
| 3/21/2011 | 1.4 | 0.55 | 0.089 J | 3.9 | |
| 6/17/2011 | 0.63 | 0.12 | <0.033 | 10 | |

| Date | TPH DRO (mg/L) | | |
|------------|----------------|-------------|---------|
| | C10-C22 | C22-C32 | C32-C40 |
| 10/29/2010 | 2.1 | 0.42 | 0.15 |
| 3/21/2011 | 0.40 | 0.12 | <0.033 |
| 6/16/2011 | 0.39 | 0.045 J | <0.033 |

| Date | TPH DRO (mg/L) | | |
|------------|----------------|-------------|-------------|
| | C10-C22 | C22-C32 | C32-C40 |
| 10/29/2010 | 3.7 | 1.2 | 0.30 |
| 3/21/2011 | 0.89 | 0.28 | <0.033 |
| 6/16/2011 | 0.70 | 0.12 | <0.033 |

| Date | TPH DRO (mg/L) | | |
|------------|----------------|-------------|-------------|
| | C10-C22 | C22-C32 | C32-C40 |
| 10/29/2010 | 2.7 | 1.4 | 0.39 |
| 3/21/2011 | 0.46 | 0.28 | <0.033 |
| 6/16/2011 | 0.46 | 0.13 | <0.033 |

PROJECT NUMBER: B006460
CITY: NOVI DIV/GROUP: ENV DB: PIC: PM: TM: TR:
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ARCADIS

Appendix **B**

Tables

**TABLE 1
FIELD DATA**

**FORMER OAKLAND TRUCK CENTER
8099 S. COLISEUM WAY
OAKLAND, CALIFORNIA 94621**

| Well ID | Date | TOC (ft amsl) | Depth to Groundwater (ft btoc) | Groundwater Elevation (ft amsl) | Depth to Bottom (ft btoc) | Temperature (°C) | pH | DO (mg/L) | Specific Conductivity (S/m) | Turbidity (NTU) | ORP (mV) |
|---------|------------|------------------|--------------------------------------|---------------------------------------|---------------------------------|---------------------|------|--------------|-----------------------------------|--------------------|-------------|
| MW-1 | 10/29/2010 | 12.46 | 6.33 | 6.13 | 20.35 | 22.21 | 7.10 | 0.25 | 0.3778 | NM | -111 |
| | 3/21/2011 | 12.46 | 8.60 | 3.86 | 20.03 | 18.42 | 7.63 | 0.19 | 1.010 | 0.00 | -94 |
| | 6/16/2011 | 12.46 | 5.94 | 6.52 | NM | 21.72 | 7.17 | 0.34 | 3.600 | 5.80 | -145 |
| MW-2 | 10/29/2010 | 12.37 | 8.42 | 3.95 | 20.07 | 21.90 | 7.31 | 0.23 | 0.6697 | NM | -133 |
| | 3/21/2011 | 12.37 | 8.60 | 3.77 | 20.03 | 18.42 | 7.63 | 0.19 | 1.010 | 0.00 | -94 |
| MW-3 | 6/16/2011 | 12.37 | 8.54 | 3.83 | NM | 20.91 | 7.85 | 0.46 | 13.60 | 0.00 | -128 |
| | 10/29/2010 | 13.06 | 7.49 | 5.57 | 20.30 | NM | NM | NM | NM | NM | NM |
| | 11/22/2010 | 13.06 | 7.22 | 5.84 | 20.25 | 20.54 | 7.11 | 0.25 | 0.3769 | NM | -114 |
| MW-4 | 3/21/2011 | 13.06 | 6.78 | 6.28 | 20.29 | 18.28 | 7.38 | 0.11 | 0.8159 | 0.00 | -124 |
| | 6/17/2011 | 13.06 | 7.24 | 5.82 | NM | 19.6 | 7.69 | 0.58 | 8.760 | 0.40 | -124 |
| | 10/29/2010 | 12.50 | 4.15 | 8.35 | 18.00 | 23.03 | 7.00 | 0.19 | 0.2160 | NM | -130 |
| MW-5 | 3/21/2011 | 12.50 | 2.02 | 10.48 | 17.95 | 17.27 | 6.70 | 0.11 | 0.1192 | 95.8 | -70 |
| | 6/16/2011 | 12.50 | 3.70 | 8.80 | NM | 22.38 | 7.24 | 0.28 | 2.300 | 1.60 | -124 |
| MW-6 | 10/29/2010 | 13.38 | 8.16 | 5.22 | 17.10 | 24.47 | 7.05 | 0.15 | 0.3459 | NM | -89 |
| | 3/21/2011 | 13.38 | 4.71 | 8.67 | 17.12 | 19.04 | 6.75 | 0.11 | 0.1768 | 16.7 | -46 |
| | 6/17/2011 | 13.38 | 6.83 | 6.55 | NM | 22.36 | 7.17 | 0.43 | 1.780 | 32.9 | -112 |
| MW-7 | 10/29/2010 | 12.33 | 7.38 | 4.95 | 17.95 | 22.31 | 6.71 | 0.15 | 0.3366 | NM | -106 |
| | 3/22/2011 | 12.33 | 5.45 | 6.88 | 17.93 | 15.50 | 6.47 | 0.31 | 0.2434 | 0.00 | -17 |
| | 6/17/2011 | 12.33 | 6.75 | 5.58 | NM | 20.63 | 7.00 | 0.37 | 2.840 | 0.00 | -120 |
| MW-8 | 10/29/2010 | 13.17 | 7.82 | 5.35 | 18.10 | 22.87 | 6.85 | 0.12 | 0.2251 | NM | -110 |
| | 3/21/2011 | 13.17 | 6.10 | 7.07 | 18.05 | 18.49 | 6.62 | 0.12 | 0.1175 | 0.00 | -86 |
| | 6/16/2011 | 13.17 | 6.93 | 6.24 | NM | 21.57 | 7.08 | 0.54 | 1.700 | 0.00 | -130 |
| MW-9 | 10/29/2010 | 12.64 | 6.74 | 5.90 | 20.22 | 23.08 | 6.93 | 0.18 | 0.1129 | NM | -101 |
| | 3/21/2011 | 12.64 | 3.26 | 9.38 | 20.20 | 18.69 | 6.50 | 0.12 | 0.0461 | 0.00 | -106 |
| | 6/16/2011 | 12.64 | 5.96 | 6.68 | NM | 21.68 | 7.15 | 0.33 | 0.9190 | 0.00 | -117 |
| MW-10 | 10/29/2010 | 12.44 | 8.58 | 3.86 | 20.25 | 21.17 | 7.10 | 0.29 | 0.6523 | NM | -127 |
| | 3/21/2011 | 12.44 | 8.78 | 3.66 | 20.11 | 18.08 | 7.08 | 0.17 | 0.6669 | 0.00 | -93 |
| | 6/16/2011 | 12.44 | 8.45 | 3.99 | NM | 20.36 | 7.40 | 0.40 | 6.970 | 0.90 | -128 |
| MW-11 | 10/29/2010 | 11.49 | 7.66 | 3.83 | 20.25 | 22.94 | 7.32 | 0.25 | 0.6652 | NM | -140 |
| | 3/21/2011 | 11.49 | 7.98 | 3.51 | 19.95 | 18.29 | 7.19 | 0.57 | 0.7225 | 2.78 | -115 |
| | 6/16/2011 | 11.49 | 8.25 | 3.24 | NM | 21.16 | 7.47 | 0.93 | 7.470 | 18.6 | -182 |
| MW-11 | 10/29/2010 | 10.93 | 7.21 | 3.72 | 18.30 | 22.02 | 6.81 | 0.25 | 0.8981 | NM | -64 |
| | 3/21/2011 | 10.93 | 7.73 | 3.20 | 17.94 | 17.55 | 6.84 | 0.39 | 0.9718 | 42.2 | -55 |
| | 6/16/2011 | 10.93 | 8.09 | 2.84 | NM | 20.14 | 7.21 | 0.71 | 10.50 | 21.5 | -110 |

Notes:

Monitoring wells MW-1 through MW-11 were surveyed on July 28, 2009.

amsl = above mean sea level

btoc = below top of casing

°C = degrees Celsius

DO = dissolved oxygen

ft = feet

mg/L = milligrams per liter

mV = millivolts

NA = not available

NM = not measured

NTU = Nephelometric turbidity units

ORP = oxidation-reduction potential

S/m = Siemens per meter

TOC = top of casing

TABLE 2
GROUNDWATER ANALYTICAL RESULTS

FORMER OAKLAND TRUCK CENTER
8099 SOUTH COLISEUM WAY
OAKLAND, CALIFORNIA 94621

| Well ID | Date Collected | TPH Low Fraction (EPA Method 8015B) mg/L | TPH DRO (EPA Method 8015B) | | | Acetone µg/L | VOCs (EPA Method 8260) | | | | | | | Other Parameters | | | | |
|--|----------------|--|----------------------------|--------------------------|-------------------|--------------|-------------------------|-----------------------------|------------------|------------------------------|-----------------------------|---------------------|-------------------------|----------------------------|-----------------------------------|--------------------------------|--|---------------------------------|
| | | | C10-C22 mg/L | C22-C32 mg/L | C32-C40 mg/L | | 1,1-Dichloroethene µg/L | cis-1,2-Dichloroethene µg/L | Cyclohexane µg/L | Methyl tert-butyl ether µg/L | 1,2,4-Trimethylbenzene µg/L | Vinyl chloride µg/L | tert-Butyl alcohol µg/L | Alkalinity (SM 2320B) mg/L | Phosphate (EPA Method 365.1) mg/L | Sulfate (EPA Method 9056) mg/L | Nitrate as Nitrogen (EPA Method 9056) mg/L | Ferrous Iron (SM 3500 Fe-) mg/L |
| SFRWQCB ESLs for Groundwater | | 0.21 | 0.21 | 0.21 | 0.21 | 1,500 | 25 | 590 | NC | 1,800 | NC | 3.8 | NC | NC | NC | NC | NC | |
| California Department of Public Health MCLs | | NC | NC | NC | NC | NC | NC | NC | NC | 13 | NC | 0.5 | NC | NC | NC | NC | 1 | NC |
| Oakland Tier I RBSLs for Ingestion of Groundwater (Commercial/ Industrial) | | NC | NC | NC | NC | 10,000 | 6 | 6 | NC | 13 | NC | 0.5 | NC | NC | NC | NC | NC | |
| MW-1 | 10/29/2010 | <0.04 | 1.7 Y4 | 0.55 Y4 | 0.16 Y4 | <16 | <0.41 | <0.34 | NS | <0.63 | <0.18 | <0.34 | NS | 1,800 | 3.7 | <0.46 | <0.041 | 74 |
| MW-1 | 3/21/2011 | <0.04 | 0.80 Y1 | 0.32 Y1 | <0.033 Y1 | <16 | <0.41 | <0.34 | <0.36 | <0.63 | <0.18 | <0.34 | <1.5 | 1,700 | 3.6 | <0.46 | <0.041 | 19 |
| MW-1 | 6/16/2011 | <0.04 | 0.48 Y1 | 0.070 J | <0.033 | <16 | <0.41 | <0.34 | <0.36 | <0.63 | <0.18 | <0.34 | <1.5 | 1,900 | 3.0 | <0.46 | <0.041 | 24 |
| MW-2 | 10/29/2010 | <0.04 | 1.0 Y4 | 0.32 Y4 | 0.11 Y4 | <16 | 0.56 J | <0.34 | NS | 4.1 | <0.18 | 0.37 J | NS | 1,300 | 2.2 | 23 | <0.041 | 1.1 |
| MW-2 | 3/21/2011 | <0.04 | 0.32 Y1 | 0.15 Y1 | <0.033 Y1 | <16 | <0.41 | <0.34 | <0.36 | 1.8 | <0.18 | <0.34 | <1.5 | 960 | 1.6 | 150 | <0.041 | 1.1 |
| MW-2 | 6/16/2011 | <0.04 | 0.37 Y1 | 0.054 J | <0.033 | <16 | <0.41 | <0.34 | <0.36 | 4.0 | <0.18 | <0.34 | <1.5 | 1,500 | 2.0 | 55 | 0.14 | 0.22 |
| MW-3 | 11/23/2010 | <0.04 | 2.0 Y4 | 0.77 Y4 | 0.21 Y4 | <16 | <0.41 | <0.34 | NS | <0.63 | <0.18 | <0.34 | NS | 1,200 | 6.2 | 14 | <0.041 | 0.91 |
| MW-3 | 3/21/2011 | <0.04 | 0.26 Y1 | 0.14 Y1 | <0.033 Y1 | <16 | <0.41 | <0.34 | <0.36 | <0.63 | <0.18 | <0.34 | <1.5 | 1,300 | 5.5 | 190 | <0.041 | 0.83 |
| MW-3 | 6/17/2011 | <0.04 [-0.04] | 0.20 Y1 [0.24 Y1] | 0.078 J [0.11 Y4] | <0.033 [-0.033] | <16 [-16] | 0.93 J [1.2] | <0.34 [-0.34] | <0.36 [-0.36] | <0.63 [-0.63] | <0.18 [-0.18] | <0.34 [-0.34] | <1.5 [-1.5] | 1,600 [1,400] | 5.2 [4.9] | 280 [300] | <0.041 [-0.041] | 0.43 [0.51] |
| MW-4 | 10/29/2010 | <0.04 | 2.7 Y1 | 1.4 Y4 | 0.39 Y4 | <16 | <0.41 | <0.34 | <0.63 | <0.18 | <0.34 | NS | NS | 810 | 2.4 | <0.46 | <0.041 | 39 |
| MW-4 | 3/21/2011 | <0.04 | 0.46 Y1 | 0.28 Y1 | <0.033 Y1 | <16 | <0.41 | <0.34 | <0.36 | <0.63 | 0.33 J | <0.34 | <1.5 | 540 | 0.94 | 9.2 | 0.11 | 2.9 |
| MW-4 | 6/16/2011 | <0.04 | 0.46 Y1 | 0.13 Y4 | <0.033 | <16 | <0.41 | <0.34 | <0.36 | <0.63 | <0.18 | <0.34 | <1.5 | 790 | 2.0 | <0.46 | <0.041 | 30 |
| MW-5 | 10/29/2010 | <0.04 | 6.4 Y1 | 2.8 Y4 | 0.63 Y4 | <16 | <0.41 | <0.34 | NS | 14 | <0.18 | <0.34 | NS | 1,700 | 1.6 | <0.46 | <0.041 | -- |
| MW-5 | 3/21/2011 | <0.04 | 1.4 Y1 | 0.55 Y1 | 0.089 J Y1 | <16 | <0.41 | <0.34 | <0.36 | 3.9 | <0.18 | <0.34 | <1.5 | 870 | 0.29 | <0.46 | <0.041 | 5.6 |
| MW-5 | 6/17/2011 | <0.04 | 0.63 Y1 | 0.12 Y4 | <0.033 | <16 | <0.41 | <0.34 | <0.36 | 10 | <0.18 | <0.34 | <1.5 | 980 | 0.52 | 0.60 J | 0.35 | 10 |
| MW-6 | 10/29/2010 | <0.04 | 7.5 Y1 | 3.6 Y4 | 0.71 Y4 | <16 | <0.41 | <0.34 | NS | 18 | <0.18 | <0.34 | NS | 1,400 | 3.0 | <0.46 | <0.041 | 45 |
| MW-6 | 3/22/2011 | <0.04 [-0.04] | 2.5 Y1 [2.5 Y1] | 0.83 Y1 [0.88 Y1] | 0.11 Y1 [0.14 Y1] | <16 [-16] | <0.41 [-0.41] | <0.34 [-0.34] | <0.36 [-0.36] | 8.3 [8.1] | <0.18 [-0.18] | <0.34 [-0.34] | 2.2 J [-1.5] | 1,000 [1,000] | 2.1 [2.1] | <0.46 [-0.46] | <0.041 [-0.041] | 39 [39] |
| MW-6 | 6/17/2011 | <0.04 | 1.4 Y1 | 0.25 Y4 | 0.034 J | <16 | <0.41 | <0.34 | <0.36 | 21 | <0.18 | <0.34 | <1.5 | 1,300 | 2.6 | <0.46 | <0.041 | 38 |
| MW-7 | 10/29/2010 | <0.04 | 3.7 Y1 | 1.2 Y4 | 0.30 Y4 | 18 J | <0.41 | <0.34 | NS | 2.4 | <0.18 | <0.34 | NS | 1,200 | 2.2 | <0.46 | <0.041 | 32 |
| MW-7 | 3/21/2011 | <0.04 | 0.89 Y1 | 0.28 Y1 | <0.033 Y1 | <16 | <0.41 | <0.34 | 0.70 J | 0.65 | <0.18 | <0.34 | <1.5 | 580 | 1.8 | <0.46 | <0.041 | 18 |
| MW-7 | 6/16/2011 | <0.04 | 0.70 Y1 | 0.12 Y4 | <0.033 | <16 | <0.41 | <0.34 | 0.87 J | 1.5 | <0.18 | <0.34 | <1.5 | 950 | 2.0 | <0.46 | <0.041 | 22 |
| MW-8 | 10/29/2010 | <0.04 | 2.1 Y1 | 0.42 Y1 | 0.15 Y1 | <16 | <0.41 | <0.34 | NS | 1.7 | <0.18 | <0.34 | NS | 490 | 0.87 | <0.46 | <0.041 | 16 |
| MW-8 | 3/21/2011 | <0.04 | 0.40 Y1 | 0.12 Y1 | <0.033 Y1 | <16 | <0.41 | <0.34 | <0.36 | <0.63 | <0.18 | <0.34 | <1.5 | 200 | 0.36 | 13 | <0.041 | 5.3 |
| MW-8 | 6/16/2011 | <0.04 | 0.39 Y1 | 0.045 J | <0.033 | <16 | <0.41 | <0.34 | <0.36 | <0.63 | <0.18 | <0.34 | <1.5 | 430 | 0.84 | <0.46 | <0.041 | 9.7 |
| MW-9 | 10/29/2010 | <0.04 | 1.0 Y1 | 0.25 Y1 | 0.09 J Y1 | <16 | <0.41 | <0.34 | NS | <0.63 | <0.18 | <0.34 | NS | 970 | 6.2 | 120 | <0.041 | 7.9 |
| MW-9 | 3/21/2011 | <0.04 | 0.48 Y1 | 0.22 Y1 | <0.033 Y1 | <16 | <0.41 | <0.34 | <0.36 | <0.63 | <0.18 | <0.34 | <1.5 | 910 | 5.9 | 140 | <0.041 | 7.9 |
| MW-9 | 6/16/2011 | <0.04 | 0.42 Y1 | 0.059 J | <0.033 | <16 | <0.41 | <0.34 | <0.36 | <0.63 | <0.18 | <0.34 | <1.5 | 1,100 | 6.0 | 150 | <0.041 | 7.4 |
| MW-10 | 10/29/2010 | <0.04 | 0.33 Y1 | 0.034 J Y1 | <0.033 | <16 | <0.41 | <0.34 | NS | <0.63 | <0.18 | <0.34 | NS | 920 | 6.0 | 120 | <0.041 | 8 |
| MW-10 | 3/21/2011 | <0.04 | 0.21 Y1 | 0.11 Y1 | <0.033 Y1 | <16 | <0.41 | <0.34 | <0.36 | <0.63 | <0.18 | <0.34 | <1.5 | 820 | 5.0 | 170 | <0.041 | 8.3 |
| MW-10 | 6/16/2011 | <0.04 | 0.22 Y1 | 0.045 J Y4 | <0.033 | <16 | <0.41 | <0.34 | <0.36 | <0.63 | <0.18 | <0.34 | <1.5 | 1,000 | 5.3 | 180 | <0.041 | 9.5 |
| MW-11 | 10/29/2010 | <0.04 | 0.74 Y4 | 0.28 Y4 | 0.097 J Y4 | <16 | <0.41 | <0.34 | NS | <0.63 | <0.18 | <0.34 | NS | 910 | 5.6 | 180 | <0.041 | 5.7 |
| MW-11 | 3/21/2011 | <0.04 | 0.20 Y4 | 0.18 Y1 | <0.033 Y1 | <16 | <0.41 | <0.34 | <0.36 | <0.63 | <0.18 | <0.34 | <1.5 | 780 | 4.5 | 260 | 0.20 | 7.5 |
| MW-11 | 6/16/2011 | <0.04 | 0.19 Y1 | 0.12 Y4 | <0.033 | <16 | <0.41 | <0.34 | <0.36 | <0.63 | <0.18 | <0.34 | <1.5 | 930 | 4.6 | 400 | <0.041 | 7.5 |

Notes:

Cleanup Criteria Exceedances are bolded.

<0.04 = analytical results of duplicate sample

-- = not analyzed

Cal EPA = California Environmental Protection Agency

DRO = diesel range organics

EPA = U.S. Environmental Protection Agency

ESLs = Environmental Screening Levels

J = estimated concentration, reported above the method detection limit but below the laboratory reporting limit

MCLs = Maximum Contaminant Levels

mg/L = milligram(s) per liter

µg/L = microgram(s) per liter

NA = not analyzed

No other VOCs analyzed for were detected in any of the groundwater monitoring wells.

*Groundwater Cleanup Criteria: TPH concentrations were compared to the SFRWQCB ESLs Groundwater Screening Levels for groundwater not used for drinking water. The ESLs are representative of an expansion of the EPA PRGs (and by default, the Cal EPA California Human Health Screening Levels) and the City of Oakland Screening Levels to reflect the broader Interim Final – November 2007 (revised May 2008) scope of environmental concerns put forth in the Basin Plan.

Cleanup criteria for VOCs are based on EPA Region 9 RSLs and California Department of Public Health MCLs (May 2011).

NC = not criteria available

NS = not sampled

PRGs = Preliminary Remediation Goals

RBSLs = Risk-Based Screening Levels

RSLs = Regional Screening Levels

SFRWQCB = San Francisco Bay Regional Water Quality Control Board

SM = standard method

TPH = total petroleum hydrocarbon

VOCs = volatile organic compounds

Y1 = sample most closely matches the laboratory standard for diesel

Y4 = sample most closely matches the laboratory standard for motor oil

Appendix C

Analytical Reports



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
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Tax I.D. 62-0814289

Est. 1970

Holly M. Burger, Debra Hagerty
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

Report Summary

Monday June 27, 2011

Report Number: L521488

Samples Received: 06/17/11

Client Project: B0064601.0000.00007

Description: Oakland Truck Center

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

John Hawkins , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center

ESC Sample # : L521488-01

Sample ID : MW-4

Site ID : 8099 S. COLISEUM WAY O

Collected By : Karl Johnson
 Collection Date : 06/16/11 14:55

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|---|--------|-------|--------|--------|-----------|---------|----------|------|
| Nitrate | U | 41. | 100 | ug/l | | 9056 | 06/17/11 | 1 |
| Sulfate | U | 460 | 5000 | ug/l | | 9056 | 06/17/11 | 1 |
| Alkalinity | 790000 | 15000 | 100000 | ug/l | | 2320B | 06/23/11 | 5 |
| Ferrous Iron | 30000 | 550 | 2500 | ug/l | T8 | 3500Fe- | 06/24/11 | 50 |
| Phosphorus, Total | 2000 | 26. | 100 | ug/l | | 365.1 | 06/23/11 | 1 |
| TPH (GC/FID) Low Fraction | U | 40. | 100 | ug/l | | 8015D/G | 06/18/11 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 98.0 | | | % Rec. | | 8015D/G | 06/18/11 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | 460 | 9.7 | 100 | ug/l | Y1 | 8015 | 06/27/11 | 1 |
| C22-C32 Hydrocarbons | 130 | 33. | 100 | ug/l | Y4 | 8015 | 06/27/11 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 06/27/11 | 1 |
| Surrogate Recovery o-Terphenyl | 124. | | | % Rec. | | 8015 | 06/27/11 | 1 |
| Oxygenates | | | | | | | | |
| Acetone | U | 16. | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| Benzene | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromodichloromethane | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromoform | U | 0.37 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromomethane | U | 1.6 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon disulfide | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon tetrachloride | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chlorobenzene | U | 0.30 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroethane | U | 0.87 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroform | U | 0.27 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Cyclohexane | U | 0.36 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,4-Dichlorobenzene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethene | U | 0.41 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| cis-1,2-Dichloroethene | U | 0.34 | 1. | ug/l | | 8260B | 06/18/11 | 1 |
| trans-1,2-Dichloroethene | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloropropane | U | 0.39 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichloropropane | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| cis-1,3-Dichloropropene | U | 0.25 | 1. | ug/l | | 8260B | 06/18/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 MDL = Minimum Detection Limit = LOD = SQL(TRRP)

Note:

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REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center
 Sample ID : MW-4
 Collected By : Karl Johnson
 Collection Date : 06/16/11 14:55

ESC Sample # : L521488-01

Site ID : 8099 S. COLISEUM WAY O

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|-----------------------------|--------|-------|-----|--------|-----------|--------|----------|------|
| trans-1,3-Dichloropropene | U | 0.24 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Hexachloro-1,3-butadiene | U | 0.38 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| n-Hexane | U | 0.39 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Isopropylbenzene | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 2-Butanone (MEK) | U | 3.4 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methylene Chloride | U | 0.91 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | U | 1.7 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methyl tert-butyl ether | U | 0.63 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Naphthalene | U | 0.98 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Styrene | U | 0.24 | 1.0 | ug/l | J4J3 | 8260B | 06/18/11 | 1 |
| 1,1,1,2-Tetrachloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2,2-Tetrachloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Tetrachloroethene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Toluene | U | 0.32 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,3-Trichlorobenzene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trichlorobenzene | U | 0.35 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,1-Trichloroethane | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2-Trichloroethane | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Trichloroethene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trimethylbenzene | U | 0.18 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3,5-Trimethylbenzene | U | 0.33 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl acetate | U | 4.0 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl chloride | U | 0.34 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Xylenes, Total | U | 0.86 | 3.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Volatile Organics | | | | | | | | |
| Di-isopropyl ether | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethanol | U | 12. | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| 3,3-Dimethyl-1-butanol | U | 4.6 | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethyl tert-butyl ether | U | 0.099 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| t-Amyl Alcohol | U | 1.4 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl alcohol | U | 1.5 | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl Formate | U | 2.7 | 20. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Amyl Methyl Ether | U | 0.085 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | | 102. | | % Rec. | | 8260B | 06/18/11 | 1 |
| Dibromofluoromethane | | 103. | | % Rec. | | 8260B | 06/18/11 | 1 |
| 4-Bromofluorobenzene | | 93.1 | | % Rec. | | 8260B | 06/18/11 | 1 |

U = ND (Not Detected)
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REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center

ESC Sample # : L521488-02

Sample ID : MW-9

Site ID : 8099 S. COLISEUM WAY O

Collected By : Karl Johnson
 Collection Date : 06/16/11 14:05

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|---|---------|-------|--------|--------|-----------|---------|----------|------|
| Nitrate | U | 41. | 100 | ug/l | | 9056 | 06/17/11 | 1 |
| Sulfate | 150000 | 2300 | 25000 | ug/l | | 9056 | 06/22/11 | 5 |
| Alkalinity | 1100000 | 15000 | 100000 | ug/l | | 2320B | 06/23/11 | 5 |
| Ferrous Iron | 7400 | 55. | 250 | ug/l | T8 | 3500Fe- | 06/24/11 | 5 |
| Phosphorus, Total | 6000 | 52. | 200 | ug/l | | 365.1 | 06/23/11 | 2 |
| TPH (GC/FID) Low Fraction | U | 40. | 100 | ug/l | | 8015D/G | 06/18/11 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 97.5 | | | % Rec. | | 8015D/G | 06/18/11 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | 420 | 9.7 | 100 | ug/l | Y1 | 8015 | 06/27/11 | 1 |
| C22-C32 Hydrocarbons | 59. | 33. | 100 | ug/l | J | 8015 | 06/27/11 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 06/27/11 | 1 |
| Surrogate Recovery o-Terphenyl | 119. | | | % Rec. | | 8015 | 06/27/11 | 1 |
| Oxygenates | | | | | | | | |
| Acetone | U | 16. | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| Benzene | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromodichloromethane | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromoform | U | 0.37 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromomethane | U | 1.6 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon disulfide | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon tetrachloride | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chlorobenzene | U | 0.30 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroethane | U | 0.87 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroform | U | 0.27 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Cyclohexane | U | 0.36 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,4-Dichlorobenzene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethene | U | 0.41 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| cis-1,2-Dichloroethene | U | 0.34 | 1. | ug/l | | 8260B | 06/18/11 | 1 |
| trans-1,2-Dichloroethene | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloropropane | U | 0.39 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichloropropane | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
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Note:

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REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center
 Sample ID : MW-9
 Collected By : Karl Johnson
 Collection Date : 06/16/11 14:05

ESC Sample # : L521488-02
 Site ID : 8099 S. COLISEUM WAY O
 Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|-----------------------------|--------|-------|-----|--------|-----------|--------|----------|------|
| cis-1,3-Dichloropropene | U | 0.25 | 1. | ug/l | | 8260B | 06/18/11 | 1 |
| trans-1,3-Dichloropropene | U | 0.24 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Hexachloro-1,3-butadiene | U | 0.38 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| n-Hexane | U | 0.39 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Isopropylbenzene | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 2-Butanone (MEK) | U | 3.4 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methylene Chloride | U | 0.91 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | U | 1.7 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methyl tert-butyl ether | U | 0.63 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Naphthalene | U | 0.98 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Styrene | U | 0.24 | 1.0 | ug/l | J4J3 | 8260B | 06/18/11 | 1 |
| 1,1,1,2-Tetrachloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2,2-Tetrachloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Tetrachloroethene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Toluene | U | 0.32 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,3-Trichlorobenzene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trichlorobenzene | U | 0.35 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,1-Trichloroethane | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2-Trichloroethane | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Trichloroethene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trimethylbenzene | U | 0.18 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3,5-Trimethylbenzene | U | 0.33 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl acetate | U | 4.0 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl chloride | U | 0.34 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Xylenes, Total | U | 0.86 | 3.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Volatile Organics | | | | | | | | |
| Di-isopropyl ether | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethanol | U | 12. | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| 3,3-Dimethyl-1-butanol | U | 4.6 | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethyl tert-butyl ether | U | 0.099 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| t-Amyl Alcohol | U | 1.4 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl alcohol | U | 1.5 | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl Formate | U | 2.7 | 20. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Amyl Methyl Ether | U | 0.085 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 102. | | | % Rec. | | 8260B | 06/18/11 | 1 |
| Dibromofluoromethane | 107. | | | % Rec. | | 8260B | 06/18/11 | 1 |
| 4-Bromofluorobenzene | 87.7 | | | % Rec. | | 8260B | 06/18/11 | 1 |

U = ND (Not Detected)
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 MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center

ESC Sample # : L521488-03

Sample ID : MW-2

Site ID : 8099 S. COLISEUM WAY O

Collected By : Karl Johnson
 Collection Date : 06/16/11 13:25

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|---|---------|-------|--------|--------|-----------|---------|----------|------|
| Nitrate | 140 | 41. | 100 | ug/l | | 9056 | 06/17/11 | 1 |
| Sulfate | 55000 | 460 | 5000 | ug/l | | 9056 | 06/17/11 | 1 |
| Alkalinity | 1500000 | 15000 | 100000 | ug/l | | 2320B | 06/23/11 | 5 |
| Ferrous Iron | 220 | 11. | 50. | ug/l | T8 | 3500Fe- | 06/24/11 | 1 |
| Phosphorus, Total | 2000 | 26. | 100 | ug/l | | 365.1 | 06/23/11 | 1 |
| TPH (GC/FID) Low Fraction | U | 40. | 100 | ug/l | | 8015D/G | 06/18/11 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 98.0 | | | % Rec. | | 8015D/G | 06/18/11 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | 370 | 9.7 | 100 | ug/l | Y1 | 8015 | 06/27/11 | 1 |
| C22-C32 Hydrocarbons | 54. | 33. | 100 | ug/l | J | 8015 | 06/27/11 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 06/27/11 | 1 |
| Surrogate Recovery o-Terphenyl | 123. | | | % Rec. | | 8015 | 06/27/11 | 1 |
| Oxygenates | | | | | | | | |
| Acetone | U | 16. | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| Benzene | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromodichloromethane | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromoform | U | 0.37 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromomethane | U | 1.6 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon disulfide | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon tetrachloride | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chlorobenzene | U | 0.30 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroethane | U | 0.87 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroform | U | 0.27 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Cyclohexane | U | 0.36 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,4-Dichlorobenzene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethene | U | 0.41 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| cis-1,2-Dichloroethene | U | 0.34 | 1. | ug/l | | 8260B | 06/18/11 | 1 |
| trans-1,2-Dichloroethene | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloropropane | U | 0.39 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichloropropane | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| cis-1,3-Dichloropropene | U | 0.25 | 1. | ug/l | | 8260B | 06/18/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 MDL = Minimum Detection Limit = LOD = SQL(TRRP)

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center
 Sample ID : MW-2
 Collected By : Karl Johnson
 Collection Date : 06/16/11 13:25

ESC Sample # : L521488-03

Site ID : 8099 S. COLISEUM WAY O

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|-----------------------------|--------|-------|-----|--------|-----------|--------|----------|------|
| trans-1,3-Dichloropropene | U | 0.24 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Hexachloro-1,3-butadiene | U | 0.38 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| n-Hexane | U | 0.39 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Isopropylbenzene | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 2-Butanone (MEK) | U | 3.4 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methylene Chloride | U | 0.91 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | U | 1.7 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methyl tert-butyl ether | 4.0 | 0.63 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Naphthalene | U | 0.98 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Styrene | U | 0.24 | 1.0 | ug/l | J4J3 | 8260B | 06/18/11 | 1 |
| 1,1,1,2-Tetrachloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2,2-Tetrachloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Tetrachloroethene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Toluene | U | 0.32 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,3-Trichlorobenzene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trichlorobenzene | U | 0.35 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,1-Trichloroethane | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2-Trichloroethane | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Trichloroethene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trimethylbenzene | U | 0.18 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3,5-Trimethylbenzene | U | 0.33 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl acetate | U | 4.0 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl chloride | U | 0.34 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Xylenes, Total | U | 0.86 | 3.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Volatile Organics | | | | | | | | |
| Di-isopropyl ether | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethanol | U | 12. | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| 3,3-Dimethyl-1-butanol | U | 4.6 | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethyl tert-butyl ether | U | 0.099 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| t-Amyl Alcohol | U | 1.4 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl alcohol | U | 1.5 | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl Formate | U | 2.7 | 20. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Amyl Methyl Ether | U | 0.085 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 104. | | | % Rec. | | 8260B | 06/18/11 | 1 |
| Dibromofluoromethane | 107. | | | % Rec. | | 8260B | 06/18/11 | 1 |
| 4-Bromofluorobenzene | 87.8 | | | % Rec. | | 8260B | 06/18/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center
 Sample ID : MW-7
 Collected By : Karl Johnson
 Collection Date : 06/16/11 11:30

ESC Sample # : L521488-04

Site ID : 8099 S. COLISEUM WAY O

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|---|--------|-------|--------|--------|-----------|---------|----------|------|
| Nitrate | U | 41. | 100 | ug/l | | 9056 | 06/17/11 | 1 |
| Sulfate | U | 460 | 5000 | ug/l | | 9056 | 06/17/11 | 1 |
| Alkalinity | 950000 | 15000 | 100000 | ug/l | | 2320B | 06/23/11 | 5 |
| Ferrous Iron | 22000 | 110 | 500 | ug/l | T8 | 3500Fe- | 06/24/11 | 10 |
| Phosphorus, Total | 2000 | 26. | 100 | ug/l | | 365.1 | 06/23/11 | 1 |
| TPH (GC/FID) Low Fraction | U | 40. | 100 | ug/l | | 8015D/G | 06/18/11 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 98.2 | | | % Rec. | | 8015D/G | 06/18/11 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | 700 | 9.7 | 100 | ug/l | Y1 | 8015 | 06/27/11 | 1 |
| C22-C32 Hydrocarbons | 120 | 33. | 100 | ug/l | Y4 | 8015 | 06/27/11 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 06/27/11 | 1 |
| Surrogate Recovery o-Terphenyl | 128. | | | % Rec. | | 8015 | 06/27/11 | 1 |
| Oxygenates | | | | | | | | |
| Acetone | U | 16. | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| Benzene | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromodichloromethane | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromoform | U | 0.37 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromomethane | U | 1.6 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon disulfide | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon tetrachloride | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chlorobenzene | U | 0.30 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroethane | U | 0.87 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroform | U | 0.27 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Cyclohexane | 0.87 | 0.36 | 1.0 | ug/l | J | 8260B | 06/18/11 | 1 |
| 1,2-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,4-Dichlorobenzene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethene | U | 0.41 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| cis-1,2-Dichloroethene | U | 0.34 | 1. | ug/l | | 8260B | 06/18/11 | 1 |
| trans-1,2-Dichloroethene | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloropropane | U | 0.39 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichloropropane | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| cis-1,3-Dichloropropene | U | 0.25 | 1. | ug/l | | 8260B | 06/18/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 MDL = Minimum Detection Limit = LOD = SQL(TRRP)

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center
 Sample ID : MW-7
 Collected By : Karl Johnson
 Collection Date : 06/16/11 11:30

ESC Sample # : L521488-04

Site ID : 8099 S. COLISEUM WAY O

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|-----------------------------|--------|-------|-----|--------|-----------|--------|----------|------|
| trans-1,3-Dichloropropene | U | 0.24 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Hexachloro-1,3-butadiene | U | 0.38 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| n-Hexane | U | 0.39 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Isopropylbenzene | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 2-Butanone (MEK) | U | 3.4 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methylene Chloride | U | 0.91 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | U | 1.7 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methyl tert-butyl ether | 1.5 | 0.63 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Naphthalene | U | 0.98 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Styrene | U | 0.24 | 1.0 | ug/l | J4J3 | 8260B | 06/18/11 | 1 |
| 1,1,1,2-Tetrachloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2,2-Tetrachloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Tetrachloroethene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Toluene | U | 0.32 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,3-Trichlorobenzene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trichlorobenzene | U | 0.35 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,1-Trichloroethane | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2-Trichloroethane | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Trichloroethene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trimethylbenzene | U | 0.18 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3,5-Trimethylbenzene | U | 0.33 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl acetate | U | 4.0 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl chloride | U | 0.34 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Xylenes, Total | U | 0.86 | 3.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Volatile Organics | | | | | | | | |
| Di-isopropyl ether | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethanol | U | 12. | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| 3,3-Dimethyl-1-butanol | U | 4.6 | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethyl tert-butyl ether | U | 0.099 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| t-Amyl Alcohol | U | 1.4 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl alcohol | U | 1.5 | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl Formate | U | 2.7 | 20. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Amyl Methyl Ether | U | 0.085 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 103. | | | % Rec. | | 8260B | 06/18/11 | 1 |
| Dibromofluoromethane | 105. | | | % Rec. | | 8260B | 06/18/11 | 1 |
| 4-Bromofluorobenzene | 90.3 | | | % Rec. | | 8260B | 06/18/11 | 1 |

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REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center

ESC Sample # : L521488-05

Sample ID : MW-11

Site ID : 8099 S. COLISEUM WAY O

Collected By : Karl Johnson
 Collection Date : 06/16/11 09:35

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|---|--------|-------|--------|--------|-----------|---------|----------|------|
| Nitrate | U | 41. | 100 | ug/l | | 9056 | 06/17/11 | 1 |
| Sulfate | 400000 | 4600 | 50000 | ug/l | | 9056 | 06/23/11 | 10 |
| Alkalinity | 930000 | 15000 | 100000 | ug/l | | 2320B | 06/23/11 | 5 |
| Ferrous Iron | 7500 | 55. | 250 | ug/l | T8 | 3500Fe- | 06/24/11 | 5 |
| Phosphorus, Total | 4600 | 26. | 100 | ug/l | | 365.1 | 06/23/11 | 1 |
| TPH (GC/FID) Low Fraction | U | 40. | 100 | ug/l | | 8015D/G | 06/18/11 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 97.6 | | | % Rec. | | 8015D/G | 06/18/11 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | 190 | 9.7 | 100 | ug/l | Y1 | 8015 | 06/27/11 | 1 |
| C22-C32 Hydrocarbons | 120 | 33. | 100 | ug/l | Y4 | 8015 | 06/27/11 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 06/27/11 | 1 |
| Surrogate Recovery o-Terphenyl | 120. | | | % Rec. | | 8015 | 06/27/11 | 1 |
| Oxygenates | | | | | | | | |
| Acetone | U | 16. | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| Benzene | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromodichloromethane | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromoform | U | 0.37 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromomethane | U | 1.6 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon disulfide | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon tetrachloride | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chlorobenzene | U | 0.30 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroethane | U | 0.87 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroform | U | 0.27 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Cyclohexane | U | 0.36 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,4-Dichlorobenzene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethene | U | 0.41 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| cis-1,2-Dichloroethene | U | 0.34 | 1. | ug/l | | 8260B | 06/18/11 | 1 |
| trans-1,2-Dichloroethene | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloropropane | U | 0.39 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichloropropane | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center

ESC Sample # : L521488-05

Sample ID : MW-11

Site ID : 8099 S. COLISEUM WAY O

Collected By : Karl Johnson
 Collection Date : 06/16/11 09:35

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|-----------------------------|--------|-------|-----|--------|-----------|--------|----------|------|
| cis-1,3-Dichloropropene | U | 0.25 | 1. | ug/l | | 8260B | 06/18/11 | 1 |
| trans-1,3-Dichloropropene | U | 0.24 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Hexachloro-1,3-butadiene | U | 0.38 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| n-Hexane | U | 0.39 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Isopropylbenzene | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 2-Butanone (MEK) | U | 3.4 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methylene Chloride | U | 0.91 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | U | 1.7 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methyl tert-butyl ether | U | 0.63 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Naphthalene | U | 0.98 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Styrene | U | 0.24 | 1.0 | ug/l | J4J3 | 8260B | 06/18/11 | 1 |
| 1,1,1,2-Tetrachloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2,2-Tetrachloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Tetrachloroethene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Toluene | U | 0.32 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,3-Trichlorobenzene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trichlorobenzene | U | 0.35 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,1-Trichloroethane | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2-Trichloroethane | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Trichloroethene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trimethylbenzene | U | 0.18 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3,5-Trimethylbenzene | U | 0.33 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl acetate | U | 4.0 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl chloride | U | 0.34 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Xylenes, Total | U | 0.86 | 3.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Volatile Organics | | | | | | | | |
| Di-isopropyl ether | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethanol | U | 12. | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| 3,3-Dimethyl-1-butanol | U | 4.6 | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethyl tert-butyl ether | U | 0.099 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| t-Amyl Alcohol | U | 1.4 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl alcohol | U | 1.5 | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl Formate | U | 2.7 | 20. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Amyl Methyl Ether | U | 0.085 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 103. | | | % Rec. | | 8260B | 06/18/11 | 1 |
| Dibromofluoromethane | 108. | | | % Rec. | | 8260B | 06/18/11 | 1 |
| 4-Bromofluorobenzene | 88.0 | | | % Rec. | | 8260B | 06/18/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center
 Sample ID : MW-10
 Collected By : Karl Johnson
 Collection Date : 06/16/11 08:45

ESC Sample # : L521488-06

Site ID : 8099 S. COLISEUM WAY O

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|---|---------|-------|--------|--------|-----------|---------|----------|------|
| Nitrate | U | 41. | 100 | ug/l | | 9056 | 06/17/11 | 1 |
| Sulfate | 180000 | 930 | 10000 | ug/l | | 9056 | 06/21/11 | 2 |
| Alkalinity | 1000000 | 15000 | 100000 | ug/l | | 2320B | 06/23/11 | 5 |
| Ferrous Iron | 9500 | 55. | 250 | ug/l | T8 | 3500Fe- | 06/24/11 | 5 |
| Phosphorus, Total | 5300 | 52. | 200 | ug/l | | 365.1 | 06/23/11 | 2 |
| TPH (GC/FID) Low Fraction | U | 40. | 100 | ug/l | | 8015D/G | 06/18/11 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 98.1 | | | % Rec. | | 8015D/G | 06/18/11 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | 220 | 9.7 | 100 | ug/l | Y1 | 8015 | 06/27/11 | 1 |
| C22-C32 Hydrocarbons | 45. | 33. | 100 | ug/l | JY4 | 8015 | 06/27/11 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 06/27/11 | 1 |
| Surrogate Recovery o-Terphenyl | 117. | | | % Rec. | | 8015 | 06/27/11 | 1 |
| Oxygenates | | | | | | | | |
| Acetone | U | 16. | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| Benzene | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromodichloromethane | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromoform | U | 0.37 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromomethane | U | 1.6 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon disulfide | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon tetrachloride | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chlorobenzene | U | 0.30 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroethane | U | 0.87 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroform | U | 0.27 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Cyclohexane | U | 0.36 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,4-Dichlorobenzene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethene | U | 0.41 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| cis-1,2-Dichloroethene | U | 0.34 | 1. | ug/l | | 8260B | 06/18/11 | 1 |
| trans-1,2-Dichloroethene | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloropropane | U | 0.39 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichloropropane | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 MDL = Minimum Detection Limit = LOD = SQL(TRRP)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center
 Sample ID : MW-10
 Collected By : Karl Johnson
 Collection Date : 06/16/11 08:45

ESC Sample # : L521488-06
 Site ID : 8099 S. COLISEUM WAY O
 Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|-----------------------------|--------|-------|-----|--------|-----------|--------|----------|------|
| cis-1,3-Dichloropropene | U | 0.25 | 1. | ug/l | | 8260B | 06/18/11 | 1 |
| trans-1,3-Dichloropropene | U | 0.24 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Hexachloro-1,3-butadiene | U | 0.38 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| n-Hexane | U | 0.39 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Isopropylbenzene | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 2-Butanone (MEK) | U | 3.4 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methylene Chloride | U | 0.91 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | U | 1.7 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methyl tert-butyl ether | U | 0.63 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Naphthalene | U | 0.98 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Styrene | U | 0.24 | 1.0 | ug/l | J4J3 | 8260B | 06/18/11 | 1 |
| 1,1,1,2-Tetrachloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2,2-Tetrachloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Tetrachloroethene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Toluene | U | 0.32 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,3-Trichlorobenzene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trichlorobenzene | U | 0.35 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,1-Trichloroethane | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2-Trichloroethane | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Trichloroethene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trimethylbenzene | U | 0.18 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3,5-Trimethylbenzene | U | 0.33 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl acetate | U | 4.0 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl chloride | U | 0.34 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Xylenes, Total | U | 0.86 | 3.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Volatile Organics | | | | | | | | |
| Di-isopropyl ether | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethanol | U | 12. | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| 3,3-Dimethyl-1-butanol | U | 4.6 | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethyl tert-butyl ether | U | 0.099 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| t-Amyl Alcohol | U | 1.4 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl alcohol | U | 1.5 | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl Formate | U | 2.7 | 20. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Amyl Methyl Ether | U | 0.085 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | | 104. | | % Rec. | | 8260B | 06/18/11 | 1 |
| Dibromofluoromethane | | 107. | | % Rec. | | 8260B | 06/18/11 | 1 |
| 4-Bromofluorobenzene | | 90.7 | | % Rec. | | 8260B | 06/18/11 | 1 |

U = ND (Not Detected)
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REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center
 Sample ID : MW-1
 Collected By : Karl Johnson
 Collection Date : 06/16/11 10:30

ESC Sample # : L521488-07
 Site ID : 8099 S. COLISEUM WAY O
 Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|---|---------|-------|--------|--------|-----------|---------|----------|------|
| Nitrate | U | 41. | 100 | ug/l | | 9056 | 06/17/11 | 1 |
| Sulfate | U | 460 | 5000 | ug/l | | 9056 | 06/17/11 | 1 |
| Alkalinity | 1900000 | 15000 | 100000 | ug/l | | 2320B | 06/23/11 | 5 |
| Ferrous Iron | 24000 | 110 | 500 | ug/l | T8 | 3500Fe- | 06/24/11 | 10 |
| Phosphorus, Total | 3000 | 26. | 100 | ug/l | | 365.1 | 06/23/11 | 1 |
| TPH (GC/FID) Low Fraction | U | 40. | 100 | ug/l | | 8015D/G | 06/18/11 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 98.1 | | | % Rec. | | 8015D/G | 06/18/11 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | 480 | 9.7 | 100 | ug/l | Y1 | 8015 | 06/27/11 | 1 |
| C22-C32 Hydrocarbons | 70. | 33. | 100 | ug/l | J | 8015 | 06/27/11 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 06/27/11 | 1 |
| Surrogate Recovery o-Terphenyl | 104. | | | % Rec. | | 8015 | 06/27/11 | 1 |
| Oxygenates | | | | | | | | |
| Acetone | U | 16. | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| Benzene | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromodichloromethane | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromoform | U | 0.37 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromomethane | U | 1.6 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon disulfide | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon tetrachloride | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chlorobenzene | U | 0.30 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroethane | U | 0.87 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroform | U | 0.27 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Cyclohexane | U | 0.36 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,4-Dichlorobenzene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethene | U | 0.41 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| cis-1,2-Dichloroethene | U | 0.34 | 1. | ug/l | | 8260B | 06/18/11 | 1 |
| trans-1,2-Dichloroethene | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloropropane | U | 0.39 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichloropropane | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| cis-1,3-Dichloropropene | U | 0.25 | 1. | ug/l | | 8260B | 06/18/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
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REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center
 Sample ID : MW-1
 Collected By : Karl Johnson
 Collection Date : 06/16/11 10:30

ESC Sample # : L521488-07

Site ID : 8099 S. COLISEUM WAY O

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|-----------------------------|--------|-------|-----|--------|-----------|--------|----------|------|
| trans-1,3-Dichloropropene | U | 0.24 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Hexachloro-1,3-butadiene | U | 0.38 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| n-Hexane | U | 0.39 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Isopropylbenzene | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 2-Butanone (MEK) | U | 3.4 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methylene Chloride | U | 0.91 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | U | 1.7 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methyl tert-butyl ether | U | 0.63 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Naphthalene | U | 0.98 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Styrene | U | 0.24 | 1.0 | ug/l | J4J3 | 8260B | 06/18/11 | 1 |
| 1,1,1,2-Tetrachloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2,2-Tetrachloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Tetrachloroethene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Toluene | U | 0.32 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,3-Trichlorobenzene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trichlorobenzene | U | 0.35 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,1-Trichloroethane | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2-Trichloroethane | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Trichloroethene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trimethylbenzene | U | 0.18 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3,5-Trimethylbenzene | U | 0.33 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl acetate | U | 4.0 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl chloride | U | 0.34 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Xylenes, Total | U | 0.86 | 3.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Volatile Organics | | | | | | | | |
| Di-isopropyl ether | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethanol | U | 12. | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| 3,3-Dimethyl-1-butanol | U | 4.6 | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethyl tert-butyl ether | U | 0.099 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| t-Amyl Alcohol | U | 1.4 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl alcohol | U | 1.5 | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl Formate | U | 2.7 | 20. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Amyl Methyl Ether | U | 0.085 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 103. | | | % Rec. | | 8260B | 06/18/11 | 1 |
| Dibromofluoromethane | 105. | | | % Rec. | | 8260B | 06/18/11 | 1 |
| 4-Bromofluorobenzene | 91.4 | | | % Rec. | | 8260B | 06/18/11 | 1 |

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center
 Sample ID : MW-8
 Collected By : Karl Johnson
 Collection Date : 06/16/11 12:15

ESC Sample # : L521488-08

Site ID : 8099 S. COLISEUM WAY O

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|---|--------|------|-------|--------|-----------|---------|----------|------|
| Nitrate | U | 41. | 100 | ug/l | | 9056 | 06/17/11 | 1 |
| Sulfate | U | 460 | 5000 | ug/l | | 9056 | 06/17/11 | 1 |
| Alkalinity | 430000 | 3000 | 20000 | ug/l | | 2320B | 06/23/11 | 1 |
| Ferrous Iron | 9700 | 55. | 250 | ug/l | T8 | 3500Fe- | 06/24/11 | 5 |
| Phosphorus, Total | 840 | 26. | 100 | ug/l | | 365.1 | 06/23/11 | 1 |
| TPH (GC/FID) Low Fraction | U | 40. | 100 | ug/l | | 8015D/G | 06/18/11 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 92.8 | | | % Rec. | | 8015D/G | 06/18/11 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | 390 | 9.7 | 100 | ug/l | Y1 | 8015 | 06/27/11 | 1 |
| C22-C32 Hydrocarbons | 45. | 33. | 100 | ug/l | J | 8015 | 06/27/11 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 06/27/11 | 1 |
| Surrogate Recovery o-Terphenyl | 118. | | | % Rec. | | 8015 | 06/27/11 | 1 |
| Oxygenates | | | | | | | | |
| Acetone | U | 16. | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| Benzene | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromodichloromethane | U | 0.23 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromoform | U | 0.37 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Bromomethane | U | 1.6 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon disulfide | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Carbon tetrachloride | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chlorobenzene | U | 0.30 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroethane | U | 0.87 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Chloroform | U | 0.27 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Cyclohexane | U | 0.36 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,4-Dichlorobenzene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1-Dichloroethene | U | 0.41 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| cis-1,2-Dichloroethene | U | 0.34 | 1. | ug/l | | 8260B | 06/18/11 | 1 |
| trans-1,2-Dichloroethene | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2-Dichloropropane | U | 0.39 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3-Dichloropropane | U | 0.28 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| cis-1,3-Dichloropropene | U | 0.25 | 1. | ug/l | | 8260B | 06/18/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 MDL = Minimum Detection Limit = LOD = SQL(TRRP)

Note:

The reported analytical results relate only to the sample submitted.
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Reported: 06/27/11 09:58 Printed: 06/27/11 09:59



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 17, 2011
 Description : Oakland Truck Center
 Sample ID : MW-8
 Collected By : Karl Johnson
 Collection Date : 06/16/11 12:15

ESC Sample # : L521488-08

Site ID : 8099 S. COLISEUM WAY O

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|-----------------------------|--------|-------|-----|--------|-----------|--------|----------|------|
| trans-1,3-Dichloropropene | U | 0.24 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Hexachloro-1,3-butadiene | U | 0.38 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| n-Hexane | U | 0.39 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Isopropylbenzene | U | 0.20 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 2-Butanone (MEK) | U | 3.4 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methylene Chloride | U | 0.91 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | U | 1.7 | 10. | ug/l | | 8260B | 06/18/11 | 1 |
| Methyl tert-butyl ether | U | 0.63 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Naphthalene | U | 0.98 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Styrene | U | 0.24 | 1.0 | ug/l | J4J3 | 8260B | 06/18/11 | 1 |
| 1,1,1,2-Tetrachloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2,2-Tetrachloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Tetrachloroethene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Toluene | U | 0.32 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,3-Trichlorobenzene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trichlorobenzene | U | 0.35 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,1-Trichloroethane | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,1,2-Trichloroethane | U | 0.29 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Trichloroethene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,2,4-Trimethylbenzene | U | 0.18 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| 1,3,5-Trimethylbenzene | U | 0.33 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl acetate | U | 4.0 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Vinyl chloride | U | 0.34 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Xylenes, Total | U | 0.86 | 3.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Volatile Organics | | | | | | | | |
| Di-isopropyl ether | U | 0.26 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethanol | U | 12. | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| 3,3-Dimethyl-1-butanol | U | 4.6 | 100 | ug/l | | 8260B | 06/18/11 | 1 |
| Ethyl tert-butyl ether | U | 0.099 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| t-Amyl Alcohol | U | 1.4 | 5.0 | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl alcohol | U | 1.5 | 50. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Butyl Formate | U | 2.7 | 20. | ug/l | | 8260B | 06/18/11 | 1 |
| tert-Amyl Methyl Ether | U | 0.085 | 1.0 | ug/l | | 8260B | 06/18/11 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | | 102. | | % Rec. | | 8260B | 06/18/11 | 1 |
| Dibromofluoromethane | | 105. | | % Rec. | | 8260B | 06/18/11 | 1 |
| 4-Bromofluorobenzene | | 89.0 | | % Rec. | | 8260B | 06/18/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 MDL = Minimum Detection Limit = LOD = SQL(TRRP)
 Note:

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Reported: 06/27/11 09:58 Printed: 06/27/11 09:59

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|---------------|------------|-------------|----------------------|----------|-----------|
| L521488-01 | WG541643 | SAMP | C10-C22 Hydrocarbons | R1740169 | Y1 |
| | WG541643 | SAMP | C22-C32 Hydrocarbons | R1740169 | Y4 |
| | WG541201 | SAMP | Styrene | R1730570 | J4J3 |
| L521488-02 | WG542352 | SAMP | Ferrous Iron | R1738330 | T8 |
| | WG541643 | SAMP | C10-C22 Hydrocarbons | R1740169 | Y1 |
| | WG541643 | SAMP | C22-C32 Hydrocarbons | R1740169 | J |
| L521488-03 | WG541201 | SAMP | Styrene | R1730570 | J4J3 |
| | WG542352 | SAMP | Ferrous Iron | R1738330 | T8 |
| | WG541643 | SAMP | C10-C22 Hydrocarbons | R1740169 | Y1 |
| L521488-04 | WG541643 | SAMP | C22-C32 Hydrocarbons | R1740169 | J |
| | WG541201 | SAMP | Styrene | R1730570 | J4J3 |
| | WG542352 | SAMP | Ferrous Iron | R1738330 | T8 |
| L521488-05 | WG541643 | SAMP | C10-C22 Hydrocarbons | R1740169 | Y1 |
| | WG541643 | SAMP | C22-C32 Hydrocarbons | R1740169 | Y4 |
| | WG541201 | SAMP | Styrene | R1730570 | J4J3 |
| L521488-06 | WG542352 | SAMP | Ferrous Iron | R1738330 | T8 |
| | WG541643 | SAMP | C10-C22 Hydrocarbons | R1740169 | Y1 |
| | WG541643 | SAMP | C22-C32 Hydrocarbons | R1740169 | JY4 |
| L521488-07 | WG541201 | SAMP | Styrene | R1730570 | J4J3 |
| | WG542352 | SAMP | Ferrous Iron | R1738330 | T8 |
| | WG541643 | SAMP | C10-C22 Hydrocarbons | R1740169 | Y1 |
| L521488-08 | WG541643 | SAMP | C22-C32 Hydrocarbons | R1740169 | J |
| | WG541201 | SAMP | Styrene | R1730570 | J4J3 |
| | WG542352 | SAMP | Ferrous Iron | R1738330 | T8 |

Attachment B
Explanation of QC Qualifier Codes

| Qualifier | Meaning |
|-----------|---|
| J | (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| T8 | (ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration. |
| Y1 | This sample most closely matches the laboratory standard for Diesel |
| Y4 | This sample most closely matches the laboratory standard for Motor Oil |

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
06/27/11 at 09:59:30

TSR Signing Reports: 341
R5 - Desired TAT

Sample: L521488-01 Account: ARCABMI Received: 06/17/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/27/11 09:58
Sample: L521488-02 Account: ARCABMI Received: 06/17/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/27/11 09:58
Sample: L521488-03 Account: ARCABMI Received: 06/17/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/27/11 09:58
Sample: L521488-04 Account: ARCABMI Received: 06/17/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/27/11 09:58
Sample: L521488-05 Account: ARCABMI Received: 06/17/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/27/11 09:58
Sample: L521488-06 Account: ARCABMI Received: 06/17/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/27/11 09:58
Sample: L521488-07 Account: ARCABMI Received: 06/17/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/27/11 09:58
Sample: L521488-08 Account: ARCABMI Received: 06/17/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/27/11 09:58



YOUR LAB OF CHOICE

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 Holly M. Burger, Debra Hagerty
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Quality Assurance Report
 Level II

L521488

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Tax I.D. 62-0814289

Est. 1970

June 27, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| Nitrate | < .1 | mg/l | | | WG541084 | 06/17/11 07:24 |
| Sulfate | < 5 | mg/l | | | WG541084 | 06/17/11 07:24 |
| TPH (GC/FID) Low Fraction | < .1 | mg/l | | | WG541253 | 06/18/11 09:49 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 97.93 | 62-128 | WG541253 | 06/18/11 09:49 |
| 1,1,1,2-Tetrachloroethane | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,1,1-Trichloroethane | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,1,2,2-Tetrachloroethane | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,1,2-Trichloroethane | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,1-Dichloroethane | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,1-Dichloroethene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,2,3-Trichlorobenzene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,2,4-Trichlorobenzene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,2,4-Trimethylbenzene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,2-Dichlorobenzene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,2-Dichloroethane | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,2-Dichloropropane | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,3,5-Trimethylbenzene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,3-Dichlorobenzene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,3-Dichloropropane | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 1,4-Dichlorobenzene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 2-Butanone (MEK) | < .01 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 4-Methyl-2-pentanone (MIBK) | < .01 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Acetone | < .05 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Benzene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Bromodichloromethane | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Bromoform | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Bromomethane | < .005 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Carbon disulfide | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Carbon tetrachloride | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Chlorobenzene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Chloroethane | < .005 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Chloroform | < .005 | mg/l | | | WG541201 | 06/18/11 05:28 |
| cis-1,2-Dichloroethene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| cis-1,3-Dichloropropene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Cyclohexane | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Di-isopropyl ether | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Ethanol | < .1 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Ethyl tert-butyl ether | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Ethylbenzene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Hexachloro-1,3-butadiene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Isopropylbenzene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Methyl tert-butyl ether | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Methylene Chloride | < .005 | mg/l | | | WG541201 | 06/18/11 05:28 |
| n-Hexane | < .01 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Naphthalene | < .005 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Styrene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| tert-Amyl Methyl Ether | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| tert-Butyl alcohol | < .05 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Tetrachloroethene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Toluene | < .005 | mg/l | | | WG541201 | 06/18/11 05:28 |
| trans-1,2-Dichloroethene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| trans-1,3-Dichloropropene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Trichloroethene | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Vinyl acetate | < .01 | mg/l | | | WG541201 | 06/18/11 05:28 |
| Vinyl chloride | < .001 | mg/l | | | WG541201 | 06/18/11 05:28 |

* Performance of this Analyte is outside of established criteria.
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

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Quality Assurance Report
 Level II

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 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 27, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| Xylenes, Total | < .003 | mg/l | | | WG541201 | 06/18/11 05:28 |
| 4-Bromofluorobenzene | | % Rec. | 90.97 | 75-128 | WG541201 | 06/18/11 05:28 |
| Dibromofluoromethane | | % Rec. | 101.5 | 79-125 | WG541201 | 06/18/11 05:28 |
| Toluene-d8 | | % Rec. | 101.8 | 87-114 | WG541201 | 06/18/11 05:28 |
| TPH (GC/FID) Low Fraction | < .1 | mg/l | | | WG541254 | 06/18/11 16:03 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 93.24 | 62-128 | WG541254 | 06/18/11 16:03 |
| Sulfate | < 5 | mg/l | | | WG541688 | 06/21/11 19:37 |
| Sulfate | < 5 | mg/l | | | WG541689 | 06/21/11 20:38 |
| Sulfate | < 5 | mg/l | | | WG541873 | 06/22/11 19:52 |
| Phosphorus, Total | < .1 | mg/l | | | WG541597 | 06/23/11 11:55 |
| Phosphorus, Total | < .1 | mg/l | | | WG541833 | 06/23/11 17:44 |
| Alkalinity | < 20 | mg/l | | | WG541866 | 06/23/11 20:31 |
| Ferrous Iron | < .05 | mg/l | | | WG542352 | 06/24/11 16:00 |
| C10-C22 Hydrocarbons | < .1 | mg/l | | | WG541643 | 06/26/11 23:58 |
| C22-C32 Hydrocarbons | < .1 | mg/l | | | WG541643 | 06/26/11 23:58 |
| C32-C40 Hydrocarbons | < .1 | mg/l | | | WG541643 | 06/26/11 23:58 |
| o-Terphenyl | | % Rec. | 113.5 | 50-150 | WG541643 | 06/26/11 23:58 |

| Analyte | Units | Result | Duplicate | | RPD | Limit | Ref Samp | Batch |
|-------------------|-------|--------|-----------|-------|-----|-------|------------|----------|
| | | | Duplicate | | | | | |
| Nitrate | mg/l | 0 | 0 | 0 | 0 | 20 | L521457-01 | WG541084 |
| Sulfate | mg/l | 0 | 0 | 0 | 0 | 20 | L521457-01 | WG541084 |
| Nitrate | mg/l | 0 | 0 | 0 | 0 | 20 | L521488-06 | WG541084 |
| Sulfate | mg/l | 170. | 174. | 0.576 | | 20 | L521488-06 | WG541084 |
| Sulfate | mg/l | 60.0 | 60.0 | 0.837 | | 20 | L521117-28 | WG541688 |
| Sulfate | mg/l | 1800 | 1800 | 0.554 | | 20 | L521534-02 | WG541689 |
| Sulfate | mg/l | 0 | 0 | 0 | | 20 | L521578-13 | WG541689 |
| Sulfate | mg/l | 2100 | 2100 | 0.957 | | 20 | L521534-22 | WG541873 |
| Phosphorus, Total | mg/l | 6.00 | 6.00 | 0.334 | | 20 | L521488-02 | WG541597 |
| Phosphorus, Total | mg/l | 0 | 0.0660 | NA | | 20 | L521447-01 | WG541597 |

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YOUR LAB OF CHOICE

ARCADIS U.S. GMC
Holly M. Burger, Debra Hagerty
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L521488

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 27, 2011

| Analyte | Units | Duplicate | | RPD | Limit | Ref Samp | Batch |
|-------------------|-------|-----------|-----------|-------|-------|------------|----------|
| | | Result | Duplicate | | | | |
| Phosphorus, Total | mg/l | 0.130 | 0.120 | 8.76 | 20 | L521534-22 | WG541833 |
| Phosphorus, Total | mg/l | 2.00 | 2.00 | 1.98 | 20 | L521488-03 | WG541833 |
| Alkalinity | mg/l | 1300 | 1400 | 6.64 | 20 | L521787-04 | WG541866 |
| Alkalinity | mg/l | 290. | 290. | 0.692 | 20 | L520902-04 | WG541866 |
| Ferrous Iron | mg/l | 0.230 | 0.220 | 5.74 | 20 | L521488-03 | WG542352 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| Nitrate | mg/l | 8 | 8.09 | 101. | 90-110 | WG541084 |
| Sulfate | mg/l | 40 | 39.9 | 99.8 | 90-110 | WG541084 |
| TPH (GC/FID) Low Fraction | mg/l | 5.5 | 5.40 | 98.2 | 70-124 | WG541253 |
| a,a,a-Trifluorotoluene(FID) | | | | 106.5 | 62-128 | WG541253 |
| 1,1,1,2-Tetrachloroethane | mg/l | .025 | 0.0306 | 122. | 75-134 | WG541201 |
| 1,1,1-Trichloroethane | mg/l | .025 | 0.0275 | 110. | 67-137 | WG541201 |
| 1,1,2,2-Tetrachloroethane | mg/l | .025 | 0.0239 | 95.4 | 72-128 | WG541201 |
| 1,1,2-Trichloroethane | mg/l | .025 | 0.0248 | 99.2 | 79-123 | WG541201 |
| 1,1-Dichloroethane | mg/l | .025 | 0.0255 | 102. | 67-133 | WG541201 |
| 1,1-Dichloroethene | mg/l | .025 | 0.0278 | 111. | 60-130 | WG541201 |
| 1,2,3-Trichlorobenzene | mg/l | .025 | 0.0263 | 105. | 63-138 | WG541201 |
| 1,2,4-Trichlorobenzene | mg/l | .025 | 0.0260 | 104. | 65-137 | WG541201 |
| 1,2,4-Trimethylbenzene | mg/l | .025 | 0.0258 | 103. | 72-135 | WG541201 |
| 1,2-Dichlorobenzene | mg/l | .025 | 0.0259 | 104. | 75-122 | WG541201 |
| 1,2-Dichloroethane | mg/l | .025 | 0.0233 | 93.1 | 63-137 | WG541201 |
| 1,2-Dichloropropane | mg/l | .025 | 0.0239 | 95.8 | 74-122 | WG541201 |
| 1,3,5-Trimethylbenzene | mg/l | .025 | 0.0258 | 103. | 73-134 | WG541201 |
| 1,3-Dichlorobenzene | mg/l | .025 | 0.0257 | 103. | 73-131 | WG541201 |
| 1,3-Dichloropropane | mg/l | .025 | 0.0231 | 92.4 | 77-119 | WG541201 |
| 1,4-Dichlorobenzene | mg/l | .025 | 0.0251 | 101. | 70-121 | WG541201 |
| 2-Butanone (MEK) | mg/l | .125 | 0.0936 | 74.9 | 53-132 | WG541201 |
| 4-Methyl-2-pentanone (MIBK) | mg/l | .125 | 0.111 | 89.2 | 60-142 | WG541201 |
| Acetone | mg/l | .125 | 0.101 | 80.7 | 48-134 | WG541201 |
| Benzene | mg/l | .025 | 0.0251 | 100. | 67-126 | WG541201 |
| Bromodichloromethane | mg/l | .025 | 0.0259 | 104. | 68-133 | WG541201 |
| Bromoform | mg/l | .025 | 0.0240 | 96.1 | 60-139 | WG541201 |
| Bromomethane | mg/l | .025 | 0.0297 | 119. | 45-175 | WG541201 |
| Carbon disulfide | mg/l | .025 | 0.0293 | 117. | 41-148 | WG541201 |
| Carbon tetrachloride | mg/l | .025 | 0.0318 | 127. | 64-141 | WG541201 |
| Chlorobenzene | mg/l | .025 | 0.0257 | 103. | 77-125 | WG541201 |
| Chloroethane | mg/l | .025 | 0.0291 | 117. | 49-155 | WG541201 |
| Chloroform | mg/l | .025 | 0.0253 | 101. | 66-126 | WG541201 |
| cis-1,2-Dichloroethene | mg/l | .025 | 0.0266 | 107. | 72-128 | WG541201 |
| cis-1,3-Dichloropropene | mg/l | .025 | 0.0252 | 101. | 73-131 | WG541201 |
| Di-isopropyl ether | mg/l | .025 | 0.0234 | 93.8 | 63-139 | WG541201 |
| Ethylbenzene | mg/l | .025 | 0.0243 | 97.1 | 76-129 | WG541201 |
| Hexachloro-1,3-butadiene | mg/l | .025 | 0.0267 | 107. | 67-135 | WG541201 |
| Isopropylbenzene | mg/l | .025 | 0.0266 | 106. | 73-132 | WG541201 |
| Methyl tert-butyl ether | mg/l | .025 | 0.0239 | 95.6 | 51-142 | WG541201 |
| Methylene Chloride | mg/l | .025 | 0.0234 | 93.7 | 64-125 | WG541201 |
| n-Hexane | mg/l | .025 | 0.0252 | 101. | 33-167 | WG541201 |
| Naphthalene | mg/l | .025 | 0.0241 | 96.5 | 56-145 | WG541201 |

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 (615) 758-5858
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Tax I.D. 62-0814289

Est. 1970

June 27, 2011

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| Styrene | mg/l | .025 | 0.0255 | 102. | 78-130 | WG541201 |
| Tetrachloroethene | mg/l | .025 | 0.0272 | 109. | 67-135 | WG541201 |
| Toluene | mg/l | .025 | 0.0231 | 92.3 | 72-122 | WG541201 |
| trans-1,2-Dichloroethene | mg/l | .025 | 0.0260 | 104. | 67-129 | WG541201 |
| trans-1,3-Dichloropropene | mg/l | .025 | 0.0226 | 90.3 | 66-137 | WG541201 |
| Trichloroethene | mg/l | .025 | 0.0268 | 107. | 74-126 | WG541201 |
| Vinyl acetate | mg/l | .125 | 0.123 | 98.0 | 34-178 | WG541201 |
| Vinyl chloride | mg/l | .025 | 0.0268 | 107. | 55-153 | WG541201 |
| Xylenes, Total | mg/l | .075 | 0.0709 | 94.5 | 75-128 | WG541201 |
| 4-Bromofluorobenzene | | | | 93.13 | 75-128 | WG541201 |
| Dibromofluoromethane | | | | 102.3 | 79-125 | WG541201 |
| Toluene-d8 | | | | 99.23 | 87-114 | WG541201 |
| TPH (GC/FID) Low Fraction | mg/l | 5.5 | 5.23 | 95.1 | 70-124 | WG541254 |
| a,a,a-Trifluorotoluene(FID) | | | | 96.66 | 62-128 | WG541254 |
| Sulfate | mg/l | 40 | 39.3 | 98.3 | 90-110 | WG541688 |
| Sulfate | mg/l | 40 | 40.0 | 100. | 90-110 | WG541689 |
| Sulfate | mg/l | 40 | 39.4 | 98.5 | 90-110 | WG541873 |
| Phosphorus, Total | mg/l | 1 | 0.983 | 98.3 | 85-115 | WG541597 |
| Phosphorus, Total | mg/l | 1 | 1.03 | 103. | 85-115 | WG541833 |
| Alkalinity | mg/l | 40 | 40.5 | 101. | 85-115 | WG541866 |
| Ferrous Iron | mg/l | 1 | 0.940 | 94.0 | 85-115 | WG542352 |
| C10-C22 Hydrocarbons | mg/l | .75 | 1.00 | 133. | 50-150 | WG541643 |
| C22-C32 Hydrocarbons | mg/l | .75 | 0.545 | 72.7 | 70-130 | WG541643 |
| o-Terphenyl | | | | 106.3 | 50-150 | WG541643 |

| Analyte | Units | Laboratory Control Sample Duplicate | | %Rec | Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------------------------|--------|-------|--------|-------|-------|----------|
| | | Result | Ref | | | | | |
| Nitrate | mg/l | 8.10 | 8.09 | 101. | 90-110 | 0.124 | 20 | WG541084 |
| Sulfate | mg/l | 39.8 | 39.9 | 100. | 90-110 | 0.251 | 20 | WG541084 |
| TPH (GC/FID) Low Fraction | mg/l | 5.60 | 5.40 | 102. | 70-124 | 3.65 | 20 | WG541253 |
| a,a,a-Trifluorotoluene(FID) | | | | 106.6 | 62-128 | | | WG541253 |
| 1,1,1,2-Tetrachloroethane | mg/l | 0.0300 | 0.0306 | 120. | 75-134 | 1.77 | 20 | WG541201 |
| 1,1,1-Trichloroethane | mg/l | 0.0283 | 0.0275 | 113. | 67-137 | 3.08 | 20 | WG541201 |
| 1,1,2,2-Tetrachloroethane | mg/l | 0.0225 | 0.0239 | 90.0 | 72-128 | 5.99 | 20 | WG541201 |
| 1,1,2-Trichloroethane | mg/l | 0.0238 | 0.0248 | 95.0 | 79-123 | 3.94 | 20 | WG541201 |
| 1,1-Dichloroethane | mg/l | 0.0260 | 0.0255 | 104. | 67-133 | 1.87 | 20 | WG541201 |

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 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 27, 2011

| Analyte | Units | Laboratory Control | | Sample Duplicate | Limit | RPD | Limit | Batch |
|-----------------------------|-------|--------------------|--------|------------------|--------|-------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| 1,1-Dichloroethene | mg/l | 0.0290 | 0.0278 | 116. | 60-130 | 4.21 | 20 | WG541201 |
| 1,2,3-Trichlorobenzene | mg/l | 0.0250 | 0.0263 | 100. | 63-138 | 5.24 | 20 | WG541201 |
| 1,2,4-Trichlorobenzene | mg/l | 0.0277 | 0.0260 | 111. | 65-137 | 6.33 | 20 | WG541201 |
| 1,2,4-Trimethylbenzene | mg/l | 0.0245 | 0.0258 | 98.0 | 72-135 | 5.16 | 20 | WG541201 |
| 1,2-Dichlorobenzene | mg/l | 0.0254 | 0.0259 | 102. | 75-122 | 2.11 | 20 | WG541201 |
| 1,2-Dichloroethane | mg/l | 0.0213 | 0.0233 | 85.0 | 63-137 | 8.82 | 20 | WG541201 |
| 1,2-Dichloropropane | mg/l | 0.0224 | 0.0239 | 89.0 | 74-122 | 6.76 | 20 | WG541201 |
| 1,3,5-Trimethylbenzene | mg/l | 0.0253 | 0.0258 | 101. | 73-134 | 1.75 | 20 | WG541201 |
| 1,3-Dichlorobenzene | mg/l | 0.0254 | 0.0257 | 102. | 73-131 | 1.31 | 20 | WG541201 |
| 1,3-Dichloropropane | mg/l | 0.0223 | 0.0231 | 89.0 | 77-119 | 3.52 | 20 | WG541201 |
| 1,4-Dichlorobenzene | mg/l | 0.0257 | 0.0251 | 103. | 70-121 | 2.15 | 20 | WG541201 |
| 2-Butanone (MEK) | mg/l | 0.0829 | 0.0936 | 66.0 | 53-132 | 12.2 | 20 | WG541201 |
| 4-Methyl-2-pentanone (MIBK) | mg/l | 0.103 | 0.111 | 82.0 | 60-142 | 7.88 | 20 | WG541201 |
| Acetone | mg/l | 0.0938 | 0.101 | 75.0 | 48-134 | 7.21 | 20 | WG541201 |
| Benzene | mg/l | 0.0237 | 0.0251 | 95.0 | 67-126 | 5.66 | 20 | WG541201 |
| Bromodichloromethane | mg/l | 0.0235 | 0.0259 | 94.0 | 68-133 | 9.71 | 20 | WG541201 |
| Bromoform | mg/l | 0.0229 | 0.0240 | 91.0 | 60-139 | 5.02 | 20 | WG541201 |
| Bromomethane | mg/l | 0.0247 | 0.0297 | 99.0 | 45-175 | 18.5 | 20 | WG541201 |
| Carbon disulfide | mg/l | 0.0267 | 0.0293 | 107. | 41-148 | 9.37 | 20 | WG541201 |
| Carbon tetrachloride | mg/l | 0.0312 | 0.0318 | 125. | 64-141 | 2.01 | 20 | WG541201 |
| Chlorobenzene | mg/l | 0.0251 | 0.0257 | 100. | 77-125 | 2.66 | 20 | WG541201 |
| Chloroethane | mg/l | 0.0249 | 0.0291 | 100. | 49-155 | 15.7 | 20 | WG541201 |
| Chloroform | mg/l | 0.0251 | 0.0253 | 100. | 66-126 | 0.630 | 20 | WG541201 |
| cis-1,2-Dichloroethene | mg/l | 0.0258 | 0.0266 | 103. | 72-128 | 3.09 | 20 | WG541201 |
| cis-1,3-Dichloropropene | mg/l | 0.0237 | 0.0252 | 95.0 | 73-131 | 6.27 | 20 | WG541201 |
| Di-isopropyl ether | mg/l | 0.0243 | 0.0234 | 97.0 | 63-139 | 3.63 | 20 | WG541201 |
| Ethylbenzene | mg/l | 0.0242 | 0.0243 | 97.0 | 76-129 | 0.400 | 20 | WG541201 |
| Hexachloro-1,3-butadiene | mg/l | 0.0264 | 0.0267 | 106. | 67-135 | 1.07 | 20 | WG541201 |
| Isopropylbenzene | mg/l | 0.0280 | 0.0266 | 112. | 73-132 | 5.26 | 20 | WG541201 |
| Methyl tert-butyl ether | mg/l | 0.0241 | 0.0239 | 96.0 | 51-142 | 0.680 | 20 | WG541201 |
| Methylene Chloride | mg/l | 0.0219 | 0.0234 | 88.0 | 64-125 | 6.47 | 20 | WG541201 |
| n-Hexane | mg/l | 0.0206 | 0.0252 | 82.0 | 33-167 | 19.9 | 20 | WG541201 |
| Naphthalene | mg/l | 0.0220 | 0.0241 | 88.0 | 56-145 | 9.12 | 20 | WG541201 |
| Styrene | mg/l | 0.0186 | 0.0255 | 74* | 78-130 | 31.4* | 20 | WG541201 |
| Tetrachloroethene | mg/l | 0.0272 | 0.0272 | 109. | 67-135 | 0.140 | 20 | WG541201 |
| Toluene | mg/l | 0.0220 | 0.0231 | 88.0 | 72-122 | 4.95 | 20 | WG541201 |
| trans-1,2-Dichloroethene | mg/l | 0.0250 | 0.0260 | 100. | 67-129 | 4.24 | 20 | WG541201 |
| trans-1,3-Dichloropropene | mg/l | 0.0200 | 0.0226 | 80.0 | 66-137 | 12.2 | 20 | WG541201 |
| Trichloroethene | mg/l | 0.0255 | 0.0268 | 102. | 74-126 | 4.81 | 20 | WG541201 |
| Vinyl acetate | mg/l | 0.113 | 0.123 | 90.0 | 34-178 | 8.42 | 26 | WG541201 |
| Vinyl chloride | mg/l | 0.0222 | 0.0268 | 89.0 | 55-153 | 18.6 | 20 | WG541201 |
| Xylenes, Total | mg/l | 0.0702 | 0.0709 | 94.0 | 75-128 | 1.03 | 20 | WG541201 |
| 4-Bromofluorobenzene | | | | 93.40 | 75-128 | | | WG541201 |
| Dibromofluoromethane | | | | 98.75 | 79-125 | | | WG541201 |
| Toluene-d8 | | | | 97.24 | 87-114 | | | WG541201 |
| TPH (GC/FID) Low Fraction | mg/l | 5.29 | 5.23 | 96.0 | 70-124 | 1.10 | 20 | WG541254 |
| a,a,a-Trifluorotoluene(FID) | | | | 97.65 | 62-128 | | | WG541254 |
| Sulfate | mg/l | 39.4 | 39.3 | 98.0 | 90-110 | 0.254 | 20 | WG541688 |
| Sulfate | mg/l | 40.0 | 40.0 | 100. | 90-110 | 0 | 20 | WG541689 |
| Sulfate | mg/l | 39.4 | 39.4 | 98.0 | 90-110 | 0 | 20 | WG541873 |

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Est. 1970

June 27, 2011

| Analyte | Units | Laboratory Control | | Sample Duplicate | | Limit | RPD | Limit | Batch |
|----------------------|-------|--------------------|-------|------------------|--|--------|-------|-------|----------|
| | | Result | Ref | %Rec | | | | | |
| Phosphorus, Total | mg/l | 1.00 | 0.983 | 100. | | 85-115 | 1.71 | 20 | WG541597 |
| Phosphorus, Total | mg/l | 1.05 | 1.03 | 105. | | 85-115 | 1.92 | 20 | WG541833 |
| Alkalinity | mg/l | 39.6 | 40.5 | 99.0 | | 85-115 | 2.25 | 20 | WG541866 |
| Ferrous Iron | mg/l | 0.968 | 0.940 | 97.0 | | 85-115 | 2.94 | 20 | WG542352 |
| C10-C22 Hydrocarbons | mg/l | 1.00 | 1.00 | 134. | | 50-150 | 0.158 | 20 | WG541643 |
| C22-C32 Hydrocarbons | mg/l | 0.554 | 0.545 | 74.0 | | 70-130 | 1.50 | 20 | WG541643 |
| o-Terphenyl | | | | 108.5 | | 50-150 | | | WG541643 |

| Analyte | Units | MS Res | Matrix Spike | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|--------------|------|-------|--------|------------|----------|
| | | | Ref Res | TV | % Rec | | | |
| Nitrate | mg/l | 4.85 | 0 | 5 | 97.0 | 80-120 | L521457-02 | WG541084 |
| Sulfate | mg/l | 49.5 | 0 | 50 | 99.0 | 80-120 | L521457-02 | WG541084 |
| TPH (GC/FID) Low Fraction | mg/l | 5.50 | 0 | 5.5 | 100. | 55-109 | L521539-01 | WG541253 |
| a,a,a-Trifluorotoluene(FID) | | | | | 106.1 | 62-128 | | WG541253 |
| 1,1,1,2-Tetrachloroethane | mg/l | 0.0259 | 0 | .025 | 103. | 45-152 | L521578-01 | WG541201 |
| 1,1,1-Trichloroethane | mg/l | 0.0248 | 0 | .025 | 99.1 | 31-161 | L521578-01 | WG541201 |
| 1,1,2,2-Tetrachloroethane | mg/l | 0.0209 | 0 | .025 | 83.7 | 49-149 | L521578-01 | WG541201 |
| 1,1,2-Trichloroethane | mg/l | 0.0214 | 0 | .025 | 85.8 | 46-145 | L521578-01 | WG541201 |
| 1,1-Dichloroethane | mg/l | 0.0219 | 0 | .025 | 87.4 | 30-159 | L521578-01 | WG541201 |
| 1,1-Dichloroethene | mg/l | 0.0242 | 0 | .025 | 96.8 | 10-162 | L521578-01 | WG541201 |
| 1,2,3-Trichlorobenzene | mg/l | 0.0220 | 0 | .025 | 88.0 | 32-143 | L521578-01 | WG541201 |
| 1,2,4-Trichlorobenzene | mg/l | 0.0228 | 0 | .025 | 91.2 | 27-142 | L521578-01 | WG541201 |
| 1,2,4-Trimethylbenzene | mg/l | 0.0208 | 0 | .025 | 83.2 | 29-153 | L521578-01 | WG541201 |
| 1,2-Dichlorobenzene | mg/l | 0.0213 | 0 | .025 | 85.2 | 40-139 | L521578-01 | WG541201 |
| 1,2-Dichloroethane | mg/l | 0.0189 | 0 | .025 | 75.4 | 29-167 | L521578-01 | WG541201 |
| 1,2-Dichloropropane | mg/l | 0.0195 | 0 | .025 | 78.2 | 39-148 | L521578-01 | WG541201 |
| 1,3,5-Trimethylbenzene | mg/l | 0.0219 | 0 | .025 | 87.6 | 33-149 | L521578-01 | WG541201 |
| 1,3-Dichlorobenzene | mg/l | 0.0219 | 0 | .025 | 87.6 | 32-148 | L521578-01 | WG541201 |
| 1,3-Dichloropropane | mg/l | 0.0203 | 0 | .025 | 81.2 | 44-142 | L521578-01 | WG541201 |
| 1,4-Dichlorobenzene | mg/l | 0.0210 | 0 | .025 | 84.1 | 32-136 | L521578-01 | WG541201 |
| 2-Butanone (MEK) | mg/l | 0.0788 | 0 | .125 | 63.1 | 32-151 | L521578-01 | WG541201 |
| 4-Methyl-2-pentanone (MIBK) | mg/l | 0.103 | 0 | .125 | 82.1 | 40-160 | L521578-01 | WG541201 |
| Acetone | mg/l | 0.0777 | 0 | .125 | 62.2 | 25-157 | L521578-01 | WG541201 |
| Benzene | mg/l | 0.0201 | 0 | .025 | 80.4 | 16-158 | L521578-01 | WG541201 |
| Bromodichloromethane | mg/l | 0.0204 | 0 | .025 | 81.8 | 45-147 | L521578-01 | WG541201 |
| Bromoform | mg/l | 0.0207 | 0 | .025 | 83.0 | 38-152 | L521578-01 | WG541201 |
| Bromomethane | mg/l | 0.0196 | 0 | .025 | 78.2 | 0-191 | L521578-01 | WG541201 |
| Carbon disulfide | mg/l | 0.0230 | 0 | .025 | 91.9 | 10-166 | L521578-01 | WG541201 |
| Carbon tetrachloride | mg/l | 0.0267 | 0 | .025 | 107. | 22-168 | L521578-01 | WG541201 |
| Chlorobenzene | mg/l | 0.0212 | 0 | .025 | 84.9 | 33-148 | L521578-01 | WG541201 |
| Chloroethane | mg/l | 0.0215 | 0 | .025 | 86.1 | 4-176 | L521578-01 | WG541201 |
| Chloroform | mg/l | 0.0216 | 0 | .025 | 86.4 | 37-147 | L521578-01 | WG541201 |
| cis-1,2-Dichloroethene | mg/l | 0.0214 | 0 | .025 | 85.4 | 29-156 | L521578-01 | WG541201 |
| cis-1,3-Dichloropropene | mg/l | 0.0202 | 0 | .025 | 81.0 | 35-148 | L521578-01 | WG541201 |
| Di-isopropyl ether | mg/l | 0.0206 | 0 | .025 | 82.6 | 39-160 | L521578-01 | WG541201 |

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

ARCADIS U.S. GMC
 Holly M. Burger, Debra Hagerty
 10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
 Level II

L521488

12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 27, 2011

| Analyte | Units | MS Res | Matrix Spike | | % Rec | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|--------------|------|-------|--------|------------|----------|
| | | | Ref Res | TV | | | | |
| Ethylbenzene | mg/l | 0.0204 | 0 | .025 | 81.6 | 29-150 | L521578-01 | WG541201 |
| Hexachloro-1,3-butadiene | mg/l | 0.0215 | 0 | .025 | 86.0 | 28-144 | L521578-01 | WG541201 |
| Isopropylbenzene | mg/l | 0.0241 | 0 | .025 | 96.4 | 35-147 | L521578-01 | WG541201 |
| Methyl tert-butyl ether | mg/l | 0.0226 | 0 | .025 | 90.6 | 24-167 | L521578-01 | WG541201 |
| Methylene Chloride | mg/l | 0.0192 | 0 | .025 | 76.8 | 23-151 | L521578-01 | WG541201 |
| n-Hexane | mg/l | 0.0177 | 0 | .025 | 70.8 | 10-176 | L521578-01 | WG541201 |
| Naphthalene | mg/l | 0.0200 | 0 | .025 | 79.9 | 24-160 | L521578-01 | WG541201 |
| Styrene | mg/l | 0.0156 | 0 | .025 | 62.3 | 38-149 | L521578-01 | WG541201 |
| Tetrachloroethene | mg/l | 0.0222 | 0 | .025 | 88.9 | 13-157 | L521578-01 | WG541201 |
| Toluene | mg/l | 0.0185 | 0 | .025 | 74.0 | 22-152 | L521578-01 | WG541201 |
| trans-1,2-Dichloroethene | mg/l | 0.0204 | 0 | .025 | 81.6 | 11-160 | L521578-01 | WG541201 |
| trans-1,3-Dichloropropene | mg/l | 0.0181 | 0 | .025 | 72.4 | 33-153 | L521578-01 | WG541201 |
| Trichloroethene | mg/l | 0.0219 | 0 | .025 | 87.7 | 18-163 | L521578-01 | WG541201 |
| Vinyl acetate | mg/l | 0.107 | 0 | .125 | 85.3 | 0-196 | L521578-01 | WG541201 |
| Vinyl chloride | mg/l | 0.0174 | 0 | .025 | 69.7 | 0-179 | L521578-01 | WG541201 |
| Xylenes, Total | mg/l | 0.0597 | 0 | .075 | 79.6 | 27-151 | L521578-01 | WG541201 |
| 4-Bromofluorobenzene | | | | | 95.27 | 75-128 | | WG541201 |
| Dibromofluoromethane | | | | | 101.9 | 79-125 | | WG541201 |
| Toluene-d8 | | | | | 97.72 | 87-114 | | WG541201 |
| TPH (GC/FID) Low Fraction | mg/l | 4.83 | 0 | 5.5 | 87.9 | 55-109 | L521656-04 | WG541254 |
| a,a,a-Trifluorotoluene(FID) | | | | | 95.08 | 62-128 | | WG541254 |
| Sulfate | mg/l | 83.9 | 36.0 | 50 | 95.8 | 80-120 | L521578-12 | WG541689 |
| Sulfate | mg/l | 58.7 | 6.10 | 50 | 105. | 80-120 | L521818-01 | WG541873 |
| Phosphorus,Total | mg/l | 2.54 | 0.0900 | 2.5 | 98.0 | 80-120 | L521447-02 | WG541597 |
| Phosphorus,Total | mg/l | 4.52 | 2.00 | 2.5 | 101. | 80-120 | L521488-04 | WG541833 |
| Alkalinity | mg/l | 437. | 290. | 200 | 73.5* | 80-120 | L520902-03 | WG541866 |
| Ferrous Iron | mg/l | 1.66 | 0.220 | 1.5 | 96.0 | 80-120 | L521488-03 | WG542352 |

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|------------------------|-------|--------|-------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| Nitrate | mg/l | 4.96 | 4.85 | 99.2 | 80-120 | 2.24 | 20 | L521457-02 | WG541084 |
| Sulfate | mg/l | 50.7 | 49.5 | 101. | 80-120 | 2.40 | 20 | L521457-02 | WG541084 |
| TPH (GC/FID) Low Fraction | mg/l | 5.55 | 5.50 | 101. | 55-109 | 0.970 | 20 | L521539-01 | WG541253 |
| a,a,a-Trifluorotoluene(FID) | | | | 105.8 | 62-128 | | | | WG541253 |
| 1,1,1,2-Tetrachloroethane | mg/l | 0.0273 | 0.0259 | 109. | 45-152 | 5.37 | 21 | L521578-01 | WG541201 |
| 1,1,1-Trichloroethane | mg/l | 0.0258 | 0.0248 | 103. | 31-161 | 3.91 | 23 | L521578-01 | WG541201 |
| 1,1,2,2-Tetrachloroethane | mg/l | 0.0223 | 0.0209 | 89.4 | 49-149 | 6.55 | 22 | L521578-01 | WG541201 |
| 1,1,2-Trichloroethane | mg/l | 0.0233 | 0.0214 | 93.4 | 46-145 | 8.44 | 20 | L521578-01 | WG541201 |
| 1,1-Dichloroethane | mg/l | 0.0232 | 0.0219 | 92.9 | 30-159 | 6.10 | 21 | L521578-01 | WG541201 |
| 1,1-Dichloroethene | mg/l | 0.0238 | 0.0242 | 95.3 | 10-162 | 1.61 | 23 | L521578-01 | WG541201 |

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

ARCADIS U.S. GMC
 Holly M. Burger, Debra Hagerty
 10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
 Level II

L521488

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 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 27, 2011

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|------------------------|-------|--------|-------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| 1,2,3-Trichlorobenzene | mg/l | 0.0239 | 0.0220 | 95.7 | 32-143 | 8.38 | 33 | L521578-01 | WG541201 |
| 1,2,4-Trichlorobenzene | mg/l | 0.0254 | 0.0228 | 102. | 27-142 | 10.9 | 30 | L521578-01 | WG541201 |
| 1,2,4-Trimethylbenzene | mg/l | 0.0223 | 0.0208 | 89.0 | 29-153 | 6.71 | 27 | L521578-01 | WG541201 |
| 1,2-Dichlorobenzene | mg/l | 0.0232 | 0.0213 | 92.7 | 40-139 | 8.35 | 23 | L521578-01 | WG541201 |
| 1,2-Dichloroethane | mg/l | 0.0198 | 0.0189 | 79.1 | 29-167 | 4.77 | 21 | L521578-01 | WG541201 |
| 1,2-Dichloropropane | mg/l | 0.0213 | 0.0195 | 85.1 | 39-148 | 8.46 | 20 | L521578-01 | WG541201 |
| 1,3,5-Trimethylbenzene | mg/l | 0.0232 | 0.0219 | 92.6 | 33-149 | 5.57 | 26 | L521578-01 | WG541201 |
| 1,3-Dichlorobenzene | mg/l | 0.0235 | 0.0219 | 94.1 | 32-148 | 7.26 | 24 | L521578-01 | WG541201 |
| 1,3-Dichloropropane | mg/l | 0.0220 | 0.0203 | 88.1 | 44-142 | 8.09 | 20 | L521578-01 | WG541201 |
| 1,4-Dichlorobenzene | mg/l | 0.0231 | 0.0210 | 92.6 | 32-136 | 9.54 | 23 | L521578-01 | WG541201 |
| 2-Butanone (MEK) | mg/l | 0.0840 | 0.0788 | 67.2 | 32-151 | 6.34 | 26 | L521578-01 | WG541201 |
| 4-Methyl-2-pentanone (MIBK) | mg/l | 0.108 | 0.103 | 86.4 | 40-160 | 5.07 | 28 | L521578-01 | WG541201 |
| Acetone | mg/l | 0.0810 | 0.0777 | 64.8 | 25-157 | 4.08 | 26 | L521578-01 | WG541201 |
| Benzene | mg/l | 0.0214 | 0.0201 | 85.8 | 16-158 | 6.49 | 21 | L521578-01 | WG541201 |
| Bromodichloromethane | mg/l | 0.0224 | 0.0204 | 89.8 | 45-147 | 9.29 | 20 | L521578-01 | WG541201 |
| Bromoform | mg/l | 0.0230 | 0.0207 | 92.1 | 38-152 | 10.4 | 20 | L521578-01 | WG541201 |
| Bromomethane | mg/l | 0.0193 | 0.0196 | 77.3 | 0-191 | 1.17 | 35 | L521578-01 | WG541201 |
| Carbon disulfide | mg/l | 0.0227 | 0.0230 | 90.7 | 10-166 | 1.29 | 25 | L521578-01 | WG541201 |
| Carbon tetrachloride | mg/l | 0.0270 | 0.0267 | 108. | 22-168 | 1.04 | 24 | L521578-01 | WG541201 |
| Chlorobenzene | mg/l | 0.0226 | 0.0212 | 90.4 | 33-148 | 6.31 | 22 | L521578-01 | WG541201 |
| Chloroethane | mg/l | 0.0214 | 0.0215 | 85.7 | 4-176 | 0.500 | 27 | L521578-01 | WG541201 |
| Chloroform | mg/l | 0.0226 | 0.0216 | 90.3 | 37-147 | 4.38 | 21 | L521578-01 | WG541201 |
| cis-1,2-Dichloroethene | mg/l | 0.0226 | 0.0214 | 90.5 | 29-156 | 5.73 | 22 | L521578-01 | WG541201 |
| cis-1,3-Dichloropropene | mg/l | 0.0225 | 0.0202 | 90.2 | 35-148 | 10.7 | 21 | L521578-01 | WG541201 |
| Di-isopropyl ether | mg/l | 0.0219 | 0.0206 | 87.6 | 39-160 | 5.98 | 21 | L521578-01 | WG541201 |
| Ethylbenzene | mg/l | 0.0217 | 0.0204 | 86.6 | 29-150 | 6.00 | 24 | L521578-01 | WG541201 |
| Hexachloro-1,3-butadiene | mg/l | 0.0231 | 0.0215 | 92.5 | 28-144 | 7.31 | 33 | L521578-01 | WG541201 |
| Isopropylbenzene | mg/l | 0.0258 | 0.0241 | 103. | 35-147 | 6.92 | 25 | L521578-01 | WG541201 |
| Methyl tert-butyl ether | mg/l | 0.0237 | 0.0226 | 94.8 | 24-167 | 4.54 | 22 | L521578-01 | WG541201 |
| Methylene Chloride | mg/l | 0.0197 | 0.0192 | 78.6 | 23-151 | 2.40 | 21 | L521578-01 | WG541201 |
| n-Hexane | mg/l | 0.0183 | 0.0177 | 73.3 | 10-176 | 3.60 | 23 | L521578-01 | WG541201 |
| Naphthalene | mg/l | 0.0218 | 0.0200 | 87.2 | 24-160 | 8.80 | 37 | L521578-01 | WG541201 |
| Styrene | mg/l | 0.0167 | 0.0156 | 66.9 | 38-149 | 7.19 | 23 | L521578-01 | WG541201 |
| Tetrachloroethene | mg/l | 0.0235 | 0.0222 | 94.1 | 13-157 | 5.69 | 24 | L521578-01 | WG541201 |
| Toluene | mg/l | 0.0207 | 0.0185 | 82.7 | 22-152 | 11.1 | 22 | L521578-01 | WG541201 |
| trans-1,2-Dichloroethene | mg/l | 0.0212 | 0.0204 | 84.8 | 11-160 | 3.91 | 23 | L521578-01 | WG541201 |
| trans-1,3-Dichloropropene | mg/l | 0.0202 | 0.0181 | 80.7 | 33-153 | 10.9 | 22 | L521578-01 | WG541201 |
| Trichloroethene | mg/l | 0.0227 | 0.0219 | 90.9 | 18-163 | 3.55 | 21 | L521578-01 | WG541201 |
| Vinyl acetate | mg/l | 0.115 | 0.107 | 91.7 | 0-196 | 7.20 | 26 | L521578-01 | WG541201 |
| Vinyl chloride | mg/l | 0.0169 | 0.0174 | 67.4 | 0-179 | 3.28 | 26 | L521578-01 | WG541201 |
| Xylenes, Total | mg/l | 0.0635 | 0.0597 | 84.7 | 27-151 | 6.14 | 23 | L521578-01 | WG541201 |
| 4-Bromofluorobenzene | | | | 93.80 | 75-128 | | | | WG541201 |
| Dibromofluoromethane | | | | 97.01 | 79-125 | | | | WG541201 |
| Toluene-d8 | | | | 99.58 | 87-114 | | | | WG541201 |
| TPH (GC/FID) Low Fraction | mg/l | 5.03 | 4.83 | 91.5 | 55-109 | 4.04 | 20 | L521656-04 | WG541254 |
| a,a,a-Trifluorotoluene(FID) | | | | 96.29 | 62-128 | | | | WG541254 |
| Sulfate | mg/l | 84.4 | 83.9 | 96.8 | 80-120 | 0.594 | 20 | L521578-12 | WG541689 |
| Sulfate | mg/l | 55.8 | 58.7 | 99.4 | 80-120 | 5.07 | 20 | L521818-01 | WG541873 |
| Phosphorus, Total | mg/l | 2.57 | 2.54 | 99.2 | 80-120 | 1.17 | 20 | L521447-02 | WG541597 |

* Performance of this Analyte is outside of established criteria.
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Brighton, MI 48116

Quality Assurance Report
 Level II

L521488

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 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 27, 2011

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|-------------------|-------|------|------------------------|-------|--------|-------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| Phosphorus, Total | mg/l | 4.56 | 4.52 | 102. | 80-120 | 0.881 | 20 | L521488-04 | WG541833 |
| Alkalinity | mg/l | 437. | 437. | 73.5* | 80-120 | 0 | 20 | L520902-03 | WG541866 |
| Ferrous Iron | mg/l | 1.68 | 1.66 | 97.3 | 80-120 | 1.20 | 20 | L521488-03 | WG542352 |

Batch number /Run number / Sample number cross reference

WG541084: R1728489: L521488-01 02 03 04 05 06 07 08
 WG541253: R1730050: L521488-01 02 03 04 05 06 07
 WG541201: R1730570: L521488-01 02 03 04 05 06 07 08
 WG541254: R1732190: L521488-08
 WG541688: R1732749: L521488-02
 WG541689: R1732810: L521488-06
 WG541873: R1734549: L521488-05
 WG541597: R1736169: L521488-01 02
 WG541833: R1736269: L521488-03 04 05 06 07 08
 WG541866: R1736469: L521488-01 02 03 04 05 06 07 08
 WG542352: R1738330: L521488-01 02 03 04 05 06 07 08
 WG541643: R1740169: L521488-01 02 03 04 05 06 07 08

* * Calculations are performed prior to rounding of reported values.
 * Performance of this Analyte is outside of established criteria.
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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

ARCADIS U.S. GMC

10559 Citation Dr. Ste 100
Brighton, MI 48116

Billing information:
Brad Saunders
10559 Citation Dr, Ste 100
Brighton, MI 48116

Analysis/Container/Preservative

E056

of Custody

1 of 1



12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

Report to: **Holly M. Burger, Debra Hagerty**
Email: **debra.hagerty@arcadis-us.co**

Project Description: **Oakland Truck Center**
City/State Collected: **Oakland, CA**

Phone: (810) 225-1904
FAX: (810) 229-8837
Client Project #: **B0064601.0000.00007**
Lab Project #: **ARCABMI-OAKLANDCAT**

Collected by (print): **Karl Johnson**
Site/Facility ID#: **8099 S. COLISEUM WAY**
P.O.#: **B0064601.0000**

Collected by (signature): *[Signature]*
Rush? (Lab MUST Be Notified)
 ___ Same Day 200%
 ___ Next Day 100%
 ___ Two Day 50%
 ___ Three Day 25%
 Date Results Needed: **10 day TAT**
 Email? ___ No ___ Yes
 FAX? ___ No ___ Yes

Immediately Packed on Ice N ___ Y

| Sample ID | Comp/Grab | Matrix* | Depth | Date | Time | No. of Cntrs | ALK 500mlHDPE-NoPres | DROCAER 1L-Amb-Add HCl < Z | FERUSFE 250mlAmb-HCl < Z | GRO 40mlAmb HCl | Nitrate Sulfate 125mlHDPE-NoPres | PT 250mlHDPE-H2SO4 < Z | V82600XY 40mlAmb-HCl | Remarks/Contaminant | Sample # (lab only) |
|-----------|-----------|---------|-------|---------|------|--------------|----------------------|----------------------------|--------------------------|-----------------|----------------------------------|------------------------|----------------------|---------------------|---------------------|
| MW-4 | | GW | | 6/14/11 | 1455 | 9 | X | X | X | X | X | X | X | L521466-01 | |
| MW-9 | | GW | | | 1405 | 9 | X | X | X | X | X | X | X | -02 | |
| MW-2 | | GW | | | 1325 | 9 | X | X | X | X | X | X | X | -03 | |
| MW-7 | | GW | | | 1130 | 9 | X | X | X | X | X | X | X | -04 | |
| MW-11 | | GW | | | 0935 | 9 | X | X | X | X | X | X | X | -05 | |
| MW-10 | | GW | | | 0845 | 9 | X | X | X | X | X | X | X | -06 | |
| MW-1 | | GW | | | 1030 | 9 | X | X | X | X | X | X | X | -07 | |
| MW-8 | | GW | | | 1215 | 9 | X | X | X | X | X | X | X | -08 | |
| | | GW | | | | 9 | X | X | X | X | X | X | X | | |

Acctnum **ARCABMI** (lab use only)
 Template/Prelogin **T70272 P358745**
 Cooler # **6746**
 Shipped Via: **FedEX 2nd Day**

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

4875 5512 7469 / 4875 5512 7470

| | | | | | |
|---|----------------------|-------------------|--|---|--|
| Relinquished by: (Signature) <i>[Signature]</i> | Date: 6/14/11 | Time: 1600 | Received by: (Signature) <i>[Signature]</i> | Samples returned via: <input checked="" type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> | Condition: (lab use only) OK |
| Relinquished by: (Signature) <i>[Signature]</i> | Date: | Time: | Received by: (Signature) <i>[Signature]</i> | Temp: 36 | Bottles Received: 72 |
| Relinquished by: (Signature) <i>[Signature]</i> | Date: | Time: | Received by: (Signature) Debra Warren | Date: 6-17-11 | Time: 0900 |
| | | | | | COC Seal Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA |
| | | | | | pH Checked: 22 |
| | | | | | NCF: |



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Holly M. Burger, Debra Hagerty
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

Report Summary

Monday June 27, 2011

Report Number: L521787

Samples Received: 06/18/11

Client Project: B0064601.0000.00007

Description: Oakland Truck Center

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

John Hawkins , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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Est. 1970

REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 18, 2011
 Description : Oakland Truck Center
 Sample ID : MW-3
 Collected By : Karl Johnson
 Collection Date : 06/17/11 07:40

ESC Sample # : L521787-01
 Site ID : 8099 S. COLISEUM WAY O
 Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|---|---------|-------|--------|--------|-----------|---------|----------|------|
| Nitrate | U | 41. | 100 | ug/l | | 9056 | 06/18/11 | 1 |
| Sulfate | 280000 | 2300 | 25000 | ug/l | | 9056 | 06/22/11 | 5 |
| Alkalinity | 1600000 | 15000 | 100000 | ug/l | | 2320B | 06/23/11 | 5 |
| Ferrous Iron | 430 | 11. | 50. | ug/l | T8 | 3500Fe- | 06/23/11 | 1 |
| Phosphorus, Total | 5200 | 52. | 200 | ug/l | | 365.1 | 06/23/11 | 2 |
| TPH (GC/FID) Low Fraction | U | 40. | 100 | ug/l | | 8015D/G | 06/21/11 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 98.5 | | | % Rec. | | 8015D/G | 06/21/11 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | 200 | 9.7 | 100 | ug/l | Y1 | 8015 | 06/27/11 | 1 |
| C22-C32 Hydrocarbons | 78. | 33. | 100 | ug/l | J | 8015 | 06/27/11 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 06/27/11 | 1 |
| Surrogate Recovery o-Terphenyl | 106. | | | % Rec. | | 8015 | 06/27/11 | 1 |
| Oxygenates | | | | | | | | |
| Acetone | U | 16. | 50. | ug/l | | 8260B | 06/20/11 | 1 |
| Benzene | U | 0.23 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Bromodichloromethane | U | 0.23 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Bromoform | U | 0.37 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Bromomethane | U | 1.6 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Carbon disulfide | U | 0.28 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Carbon tetrachloride | U | 0.20 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Chlorobenzene | U | 0.30 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Chloroethane | U | 0.87 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Chloroform | U | 0.27 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Cyclohexane | U | 0.36 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,3-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,4-Dichlorobenzene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1-Dichloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2-Dichloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1-Dichloroethene | 0.93 | 0.41 | 1.0 | ug/l | J | 8260B | 06/20/11 | 1 |
| cis-1,2-Dichloroethene | U | 0.34 | 1. | ug/l | | 8260B | 06/20/11 | 1 |
| trans-1,2-Dichloroethene | U | 0.26 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2-Dichloropropane | U | 0.39 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,3-Dichloropropane | U | 0.28 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| cis-1,3-Dichloropropene | U | 0.25 | 1. | ug/l | | 8260B | 06/20/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 MDL = Minimum Detection Limit = LOD = SQL(TRRP)

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 18, 2011
 Description : Oakland Truck Center
 Sample ID : MW-3
 Collected By : Karl Johnson
 Collection Date : 06/17/11 07:40

ESC Sample # : L521787-01

Site ID : 8099 S. COLISEUM WAY O

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|-----------------------------|--------|-------|-----|--------|-----------|--------|----------|------|
| trans-1,3-Dichloropropene | U | 0.24 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Hexachloro-1,3-butadiene | U | 0.38 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| n-Hexane | U | 0.39 | 10. | ug/l | | 8260B | 06/20/11 | 1 |
| Isopropylbenzene | U | 0.20 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 2-Butanone (MEK) | U | 3.4 | 10. | ug/l | | 8260B | 06/20/11 | 1 |
| Methylene Chloride | U | 0.91 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | U | 1.7 | 10. | ug/l | | 8260B | 06/20/11 | 1 |
| Methyl tert-butyl ether | U | 0.63 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Naphthalene | U | 0.98 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Styrene | U | 0.24 | 1.0 | ug/l | J4 | 8260B | 06/20/11 | 1 |
| 1,1,1,2-Tetrachloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1,2,2-Tetrachloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Tetrachloroethene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Toluene | U | 0.32 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2,3-Trichlorobenzene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2,4-Trichlorobenzene | U | 0.35 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1,1-Trichloroethane | U | 0.31 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1,2-Trichloroethane | U | 0.29 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Trichloroethene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2,4-Trimethylbenzene | U | 0.18 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,3,5-Trimethylbenzene | U | 0.33 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Vinyl acetate | U | 4.0 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Vinyl chloride | U | 0.34 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Xylenes, Total | U | 0.86 | 3.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Volatile Organics | | | | | | | | |
| Di-isopropyl ether | U | 0.26 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Ethanol | U | 12. | 100 | ug/l | | 8260B | 06/20/11 | 1 |
| 3,3-Dimethyl-1-butanol | U | 4.6 | 100 | ug/l | | 8260B | 06/20/11 | 1 |
| Ethyl tert-butyl ether | U | 0.099 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| t-Amyl Alcohol | U | 1.4 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| tert-Butyl alcohol | U | 1.5 | 50. | ug/l | | 8260B | 06/20/11 | 1 |
| tert-Butyl Formate | U | 2.7 | 20. | ug/l | | 8260B | 06/20/11 | 1 |
| tert-Amyl Methyl Ether | U | 0.085 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | | 102. | | % Rec. | | 8260B | 06/20/11 | 1 |
| Dibromofluoromethane | | 105. | | % Rec. | | 8260B | 06/20/11 | 1 |
| 4-Bromofluorobenzene | | 99.7 | | % Rec. | | 8260B | 06/20/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 18, 2011
 Description : Oakland Truck Center
 Sample ID : MW-5
 Collected By : Karl Johnson
 Collection Date : 06/17/11 10:45

ESC Sample # : L521787-02

Site ID : 8099 S. COLISEUM WAY O

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|---|--------|-------|--------|--------|-----------|---------|----------|------|
| Nitrate | 350 | 41. | 100 | ug/l | | 9056 | 06/18/11 | 1 |
| Sulfate | 600 | 460 | 5000 | ug/l | J | 9056 | 06/18/11 | 1 |
| Alkalinity | 980000 | 15000 | 100000 | ug/l | | 2320B | 06/23/11 | 5 |
| Ferrous Iron | 10000 | 110 | 500 | ug/l | T8 | 3500Fe- | 06/23/11 | 10 |
| Phosphorus, Total | 520 | 26. | 100 | ug/l | | 365.1 | 06/23/11 | 1 |
| TPH (GC/FID) Low Fraction | U | 40. | 100 | ug/l | | 8015D/G | 06/21/11 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 98.2 | | | % Rec. | | 8015D/G | 06/21/11 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | 630 | 9.7 | 100 | ug/l | Y1 | 8015 | 06/27/11 | 1 |
| C22-C32 Hydrocarbons | 120 | 33. | 100 | ug/l | Y4 | 8015 | 06/27/11 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 06/27/11 | 1 |
| Surrogate Recovery o-Terphenyl | 93.8 | | | % Rec. | | 8015 | 06/27/11 | 1 |
| Oxygenates | | | | | | | | |
| Acetone | U | 16. | 50. | ug/l | | 8260B | 06/20/11 | 1 |
| Benzene | U | 0.23 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Bromodichloromethane | U | 0.23 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Bromoform | U | 0.37 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Bromomethane | U | 1.6 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Carbon disulfide | U | 0.28 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Carbon tetrachloride | U | 0.20 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Chlorobenzene | U | 0.30 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Chloroethane | U | 0.87 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Chloroform | U | 0.27 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Cyclohexane | U | 0.36 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,3-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,4-Dichlorobenzene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1-Dichloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2-Dichloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1-Dichloroethene | U | 0.41 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| cis-1,2-Dichloroethene | U | 0.34 | 1. | ug/l | | 8260B | 06/20/11 | 1 |
| trans-1,2-Dichloroethene | U | 0.26 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2-Dichloropropane | U | 0.39 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,3-Dichloropropane | U | 0.28 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| cis-1,3-Dichloropropene | U | 0.25 | 1. | ug/l | | 8260B | 06/20/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
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REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 18, 2011
 Description : Oakland Truck Center
 Sample ID : MW-5
 Collected By : Karl Johnson
 Collection Date : 06/17/11 10:45

ESC Sample # : L521787-02

Site ID : 8099 S. COLISEUM WAY O

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|-----------------------------|--------|-------|-----|--------|-----------|--------|----------|------|
| trans-1,3-Dichloropropene | U | 0.24 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Hexachloro-1,3-butadiene | U | 0.38 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| n-Hexane | U | 0.39 | 10. | ug/l | | 8260B | 06/20/11 | 1 |
| Isopropylbenzene | U | 0.20 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 2-Butanone (MEK) | U | 3.4 | 10. | ug/l | | 8260B | 06/20/11 | 1 |
| Methylene Chloride | U | 0.91 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | U | 1.7 | 10. | ug/l | | 8260B | 06/20/11 | 1 |
| Methyl tert-butyl ether | 10. | 0.63 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Naphthalene | U | 0.98 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Styrene | U | 0.24 | 1.0 | ug/l | J4 | 8260B | 06/20/11 | 1 |
| 1,1,1,2-Tetrachloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1,2,2-Tetrachloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Tetrachloroethene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Toluene | U | 0.32 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2,3-Trichlorobenzene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2,4-Trichlorobenzene | U | 0.35 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1,1-Trichloroethane | U | 0.31 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1,2-Trichloroethane | U | 0.29 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Trichloroethene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2,4-Trimethylbenzene | U | 0.18 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,3,5-Trimethylbenzene | U | 0.33 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Vinyl acetate | U | 4.0 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Vinyl chloride | U | 0.34 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Xylenes, Total | U | 0.86 | 3.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Volatile Organics | | | | | | | | |
| Di-isopropyl ether | U | 0.26 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Ethanol | U | 12. | 100 | ug/l | | 8260B | 06/20/11 | 1 |
| 3,3-Dimethyl-1-butanol | U | 4.6 | 100 | ug/l | | 8260B | 06/20/11 | 1 |
| Ethyl tert-butyl ether | U | 0.099 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| t-Amyl Alcohol | U | 1.4 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| tert-Butyl alcohol | U | 1.5 | 50. | ug/l | | 8260B | 06/20/11 | 1 |
| tert-Butyl Formate | U | 2.7 | 20. | ug/l | | 8260B | 06/20/11 | 1 |
| tert-Amyl Methyl Ether | U | 0.085 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 103. | | | % Rec. | | 8260B | 06/20/11 | 1 |
| Dibromofluoromethane | 109. | | | % Rec. | | 8260B | 06/20/11 | 1 |
| 4-Bromofluorobenzene | 98.0 | | | % Rec. | | 8260B | 06/20/11 | 1 |

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REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 18, 2011
 Description : Oakland Truck Center
 Sample ID : MW-6
 Collected By : Karl Johnson
 Collection Date : 06/17/11 11:30

ESC Sample # : L521787-03

Site ID : 8099 S. COLISEUM WAY O

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|---|---------|-------|--------|--------|-----------|---------|----------|------|
| Nitrate | U | 41. | 100 | ug/l | | 9056 | 06/18/11 | 1 |
| Sulfate | U | 460 | 5000 | ug/l | | 9056 | 06/18/11 | 1 |
| Alkalinity | 1300000 | 15000 | 100000 | ug/l | | 2320B | 06/23/11 | 5 |
| Ferrous Iron | 38000 | 280 | 1300 | ug/l | T8 | 3500Fe- | 06/23/11 | 25 |
| Phosphorus, Total | 2600 | 26. | 100 | ug/l | | 365.1 | 06/23/11 | 1 |
| TPH (GC/FID) Low Fraction | U | 40. | 100 | ug/l | | 8015D/G | 06/21/11 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 98.9 | | | % Rec. | | 8015D/G | 06/21/11 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | 1400 | 9.7 | 100 | ug/l | Y1 | 8015 | 06/27/11 | 1 |
| C22-C32 Hydrocarbons | 250 | 33. | 100 | ug/l | Y4 | 8015 | 06/27/11 | 1 |
| C32-C40 Hydrocarbons | 34. | 33. | 100 | ug/l | J | 8015 | 06/27/11 | 1 |
| Surrogate Recovery o-Terphenyl | 113. | | | % Rec. | | 8015 | 06/27/11 | 1 |
| Oxygenates | | | | | | | | |
| Acetone | U | 16. | 50. | ug/l | | 8260B | 06/20/11 | 1 |
| Benzene | U | 0.23 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Bromodichloromethane | U | 0.23 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Bromoform | U | 0.37 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Bromomethane | U | 1.6 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Carbon disulfide | U | 0.28 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Carbon tetrachloride | U | 0.20 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Chlorobenzene | U | 0.30 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Chloroethane | U | 0.87 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Chloroform | U | 0.27 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Cyclohexane | U | 0.36 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,3-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,4-Dichlorobenzene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1-Dichloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2-Dichloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1-Dichloroethene | U | 0.41 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| cis-1,2-Dichloroethene | U | 0.34 | 1. | ug/l | | 8260B | 06/20/11 | 1 |
| trans-1,2-Dichloroethene | U | 0.26 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2-Dichloropropane | U | 0.39 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,3-Dichloropropane | U | 0.28 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| cis-1,3-Dichloropropene | U | 0.25 | 1. | ug/l | | 8260B | 06/20/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 MDL = Minimum Detection Limit = LOD = SQL(TRRP)

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 18, 2011
 Description : Oakland Truck Center
 Sample ID : MW-6
 Collected By : Karl Johnson
 Collection Date : 06/17/11 11:30

ESC Sample # : L521787-03
 Site ID : 8099 S. COLISEUM WAY O
 Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|-----------------------------|--------|-------|-----|--------|-----------|--------|----------|------|
| trans-1,3-Dichloropropene | U | 0.24 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Hexachloro-1,3-butadiene | U | 0.38 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| n-Hexane | U | 0.39 | 10. | ug/l | | 8260B | 06/20/11 | 1 |
| Isopropylbenzene | U | 0.20 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 2-Butanone (MEK) | U | 3.4 | 10. | ug/l | | 8260B | 06/20/11 | 1 |
| Methylene Chloride | U | 0.91 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | U | 1.7 | 10. | ug/l | | 8260B | 06/20/11 | 1 |
| Methyl tert-butyl ether | 21. | 0.63 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Naphthalene | U | 0.98 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Styrene | U | 0.24 | 1.0 | ug/l | J4 | 8260B | 06/20/11 | 1 |
| 1,1,1,2-Tetrachloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1,2,2-Tetrachloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Tetrachloroethene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Toluene | U | 0.32 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2,3-Trichlorobenzene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2,4-Trichlorobenzene | U | 0.35 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1,1-Trichloroethane | U | 0.31 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1,2-Trichloroethane | U | 0.29 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Trichloroethene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2,4-Trimethylbenzene | U | 0.18 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,3,5-Trimethylbenzene | U | 0.33 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Vinyl acetate | U | 4.0 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Vinyl chloride | U | 0.34 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Xylenes, Total | U | 0.86 | 3.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Volatile Organics | | | | | | | | |
| Di-isopropyl ether | U | 0.26 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Ethanol | U | 12. | 100 | ug/l | | 8260B | 06/20/11 | 1 |
| 3,3-Dimethyl-1-butanol | U | 4.6 | 100 | ug/l | | 8260B | 06/20/11 | 1 |
| Ethyl tert-butyl ether | U | 0.099 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| t-Amyl Alcohol | U | 1.4 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| tert-Butyl alcohol | U | 1.5 | 50. | ug/l | | 8260B | 06/20/11 | 1 |
| tert-Butyl Formate | U | 2.7 | 20. | ug/l | | 8260B | 06/20/11 | 1 |
| tert-Amyl Methyl Ether | U | 0.085 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 102. | | | % Rec. | | 8260B | 06/20/11 | 1 |
| Dibromofluoromethane | 109. | | | % Rec. | | 8260B | 06/20/11 | 1 |
| 4-Bromofluorobenzene | 99.4 | | | % Rec. | | 8260B | 06/20/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 MDL = Minimum Detection Limit = LOD = SQL(TRRP)

Note:
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Reported: 06/27/11 10:00 Printed: 06/27/11 10:00



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 18, 2011
 Description : Oakland Truck Center
 Sample ID : DUP
 Collected By : Karl Johnson
 Collection Date : 06/17/11 00:00

ESC Sample # : L521787-04

Site ID : 8099 S. COLISEUM WAY O

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|---|---------|-------|--------|--------|-----------|---------|----------|------|
| Nitrate | U | 41. | 100 | ug/l | | 9056 | 06/18/11 | 1 |
| Sulfate | 300000 | 2300 | 25000 | ug/l | | 9056 | 06/22/11 | 5 |
| Alkalinity | 1400000 | 15000 | 100000 | ug/l | | 2320B | 06/23/11 | 5 |
| Ferrous Iron | 510 | 11. | 50. | ug/l | T8 | 3500Fe- | 06/23/11 | 1 |
| Phosphorus, Total | 4900 | 26. | 100 | ug/l | | 365.1 | 06/23/11 | 1 |
| TPH (GC/FID) Low Fraction | U | 40. | 100 | ug/l | | 8015D/G | 06/21/11 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 97.7 | | | % Rec. | | 8015D/G | 06/21/11 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | 240 | 9.7 | 100 | ug/l | Y1 | 8015 | 06/27/11 | 1 |
| C22-C32 Hydrocarbons | 110 | 33. | 100 | ug/l | Y4 | 8015 | 06/27/11 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 06/27/11 | 1 |
| Surrogate Recovery o-Terphenyl | 109. | | | % Rec. | | 8015 | 06/27/11 | 1 |
| Oxygenates | | | | | | | | |
| Acetone | U | 16. | 50. | ug/l | | 8260B | 06/20/11 | 1 |
| Benzene | U | 0.23 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Bromodichloromethane | U | 0.23 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Bromoform | U | 0.37 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Bromomethane | U | 1.6 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Carbon disulfide | U | 0.28 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Carbon tetrachloride | U | 0.20 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Chlorobenzene | U | 0.30 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Chloroethane | U | 0.87 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Chloroform | U | 0.27 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Cyclohexane | U | 0.36 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,3-Dichlorobenzene | U | 0.29 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,4-Dichlorobenzene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1-Dichloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2-Dichloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1-Dichloroethene | 1.2 | 0.41 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| cis-1,2-Dichloroethene | U | 0.34 | 1. | ug/l | | 8260B | 06/20/11 | 1 |
| trans-1,2-Dichloroethene | U | 0.26 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2-Dichloropropane | U | 0.39 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,3-Dichloropropane | U | 0.28 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| cis-1,3-Dichloropropene | U | 0.25 | 1. | ug/l | | 8260B | 06/20/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
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Est. 1970

REPORT OF ANALYSIS

Holly M. Burger, Debra Hagerty
 ARCADIS U.S. GMC
 10559 Citation Dr, Ste 100
 Brighton, MI 48116

June 27, 2011

Date Received : June 18, 2011
 Description : Oakland Truck Center
 Sample ID : DUP
 Collected By : Karl Johnson
 Collection Date : 06/17/11 00:00

ESC Sample # : L521787-04

Site ID : 8099 S. COLISEUM WAY O

Project # : B0064601.0000.00007

| Parameter | Result | MDL | RDL | Units | Qualifier | Method | Date | Dil. |
|-----------------------------|--------|-------|-----|--------|-----------|--------|----------|------|
| trans-1,3-Dichloropropene | U | 0.24 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Ethylbenzene | U | 0.22 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Hexachloro-1,3-butadiene | U | 0.38 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| n-Hexane | U | 0.39 | 10. | ug/l | | 8260B | 06/20/11 | 1 |
| Isopropylbenzene | U | 0.20 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 2-Butanone (MEK) | U | 3.4 | 10. | ug/l | | 8260B | 06/20/11 | 1 |
| Methylene Chloride | U | 0.91 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | U | 1.7 | 10. | ug/l | | 8260B | 06/20/11 | 1 |
| Methyl tert-butyl ether | U | 0.63 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Naphthalene | U | 0.98 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Styrene | U | 0.24 | 1.0 | ug/l | J4 | 8260B | 06/20/11 | 1 |
| 1,1,1,2-Tetrachloroethane | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1,2,2-Tetrachloroethane | U | 0.25 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Tetrachloroethene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Toluene | U | 0.32 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2,3-Trichlorobenzene | U | 0.32 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2,4-Trichlorobenzene | U | 0.35 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1,1-Trichloroethane | U | 0.31 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,1,2-Trichloroethane | U | 0.29 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Trichloroethene | U | 0.31 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,2,4-Trimethylbenzene | U | 0.18 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| 1,3,5-Trimethylbenzene | U | 0.33 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Vinyl acetate | U | 4.0 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Vinyl chloride | U | 0.34 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Xylenes, Total | U | 0.86 | 3.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Volatile Organics | | | | | | | | |
| Di-isopropyl ether | U | 0.26 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Ethanol | U | 12. | 100 | ug/l | | 8260B | 06/20/11 | 1 |
| 3,3-Dimethyl-1-butanol | U | 4.6 | 100 | ug/l | | 8260B | 06/20/11 | 1 |
| Ethyl tert-butyl ether | U | 0.099 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| t-Amyl Alcohol | U | 1.4 | 5.0 | ug/l | | 8260B | 06/20/11 | 1 |
| tert-Butyl alcohol | U | 1.5 | 50. | ug/l | | 8260B | 06/20/11 | 1 |
| tert-Butyl Formate | U | 2.7 | 20. | ug/l | | 8260B | 06/20/11 | 1 |
| tert-Amyl Methyl Ether | U | 0.085 | 1.0 | ug/l | | 8260B | 06/20/11 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | | 102. | | % Rec. | | 8260B | 06/20/11 | 1 |
| Dibromofluoromethane | | 109. | | % Rec. | | 8260B | 06/20/11 | 1 |
| 4-Bromofluorobenzene | | 99.6 | | % Rec. | | 8260B | 06/20/11 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 MDL = Minimum Detection Limit = LOD = SQL(TRRP)

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Reported: 06/27/11 10:00 Printed: 06/27/11 10:00

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|---------------|------------|-------------|----------------------|----------|-----------|
| L521787-01 | WG541643 | SAMP | C10-C22 Hydrocarbons | R1740169 | Y1 |
| | WG541643 | SAMP | C22-C32 Hydrocarbons | R1740169 | J |
| | WG541379 | SAMP | 1,1-Dichloroethene | R1730770 | J |
| | WG541379 | SAMP | Styrene | R1730770 | J4 |
| | WG541701 | SAMP | Ferrous Iron | R1735251 | T8 |
| L521787-02 | WG541643 | SAMP | C10-C22 Hydrocarbons | R1740169 | Y1 |
| | WG541643 | SAMP | C22-C32 Hydrocarbons | R1740169 | Y4 |
| | WG541379 | SAMP | Styrene | R1730770 | J4 |
| | WG541701 | SAMP | Ferrous Iron | R1735251 | T8 |
| | WG541299 | SAMP | Sulfate | R1729754 | J |
| L521787-03 | WG541643 | SAMP | C10-C22 Hydrocarbons | R1740169 | Y1 |
| | WG541643 | SAMP | C22-C32 Hydrocarbons | R1740169 | Y4 |
| | WG541643 | SAMP | C32-C40 Hydrocarbons | R1740169 | J |
| | WG541379 | SAMP | Styrene | R1730770 | J4 |
| | WG541701 | SAMP | Ferrous Iron | R1735251 | T8 |
| L521787-04 | WG541643 | SAMP | C10-C22 Hydrocarbons | R1740169 | Y1 |
| | WG541643 | SAMP | C22-C32 Hydrocarbons | R1740169 | Y4 |
| | WG541379 | SAMP | Styrene | R1730770 | J4 |
| | WG541701 | SAMP | Ferrous Iron | R1735251 | T8 |

Attachment B
Explanation of QC Qualifier Codes

| Qualifier | Meaning |
|-----------|---|
| J | (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| T8 | (ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration. |
| Y1 | This sample most closely matches the laboratory standard for Diesel |
| Y4 | This sample most closely matches the laboratory standard for Motor Oil |

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy** - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision** - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate** - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC** - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
06/27/11 at 10:00:41

TSR Signing Reports: 341
R5 - Desired TAT

Sample: L521787-01 Account: ARCABMI Received: 06/18/11 09:00 Due Date: 06/22/11 00:00 RPT Date: 06/27/11 10:00
Sample: L521787-02 Account: ARCABMI Received: 06/18/11 09:00 Due Date: 06/22/11 00:00 RPT Date: 06/27/11 10:00
Sample: L521787-03 Account: ARCABMI Received: 06/18/11 09:00 Due Date: 06/22/11 00:00 RPT Date: 06/27/11 10:00
Sample: L521787-04 Account: ARCABMI Received: 06/18/11 09:00 Due Date: 06/22/11 00:00 RPT Date: 06/27/11 10:00



YOUR LAB OF CHOICE

ARCADIS U.S. GMC
 Holly M. Burger, Debra Hagerty
 10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
 Level II

L521787

12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 27, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| Nitrate | < .1 | mg/l | | | WG541299 | 06/18/11 12:20 |
| Sulfate | < 5 | mg/l | | | WG541299 | 06/18/11 12:20 |
| 1,1,1,2-Tetrachloroethane | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,1,1-Trichloroethane | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,1,2,2-Tetrachloroethane | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,1,2-Trichloroethane | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,1-Dichloroethane | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,1-Dichloroethene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,2,3-Trichlorobenzene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,2,4-Trichlorobenzene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,2,4-Trimethylbenzene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,2-Dichlorobenzene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,2-Dichloroethane | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,2-Dichloropropane | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,3,5-Trimethylbenzene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,3-Dichlorobenzene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,3-Dichloropropane | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 1,4-Dichlorobenzene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 2-Butanone (MEK) | < .01 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 4-Methyl-2-pentanone (MIBK) | < .01 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Acetone | < .05 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Benzene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Bromodichloromethane | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Bromoform | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Bromomethane | < .005 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Carbon disulfide | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Carbon tetrachloride | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Chlorobenzene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Chloroethane | < .005 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Chloroform | < .005 | mg/l | | | WG541379 | 06/20/11 04:33 |
| cis-1,2-Dichloroethene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| cis-1,3-Dichloropropene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Cyclohexane | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Di-isopropyl ether | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Ethanol | < .1 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Ethyl tert-butyl ether | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Ethylbenzene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Hexachloro-1,3-butadiene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Isopropylbenzene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Methyl tert-butyl ether | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Methylene Chloride | < .005 | mg/l | | | WG541379 | 06/20/11 04:33 |
| n-Hexane | < .01 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Naphthalene | < .005 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Styrene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| tert-Amyl Methyl Ether | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| tert-Butyl alcohol | < .05 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Tetrachloroethene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Toluene | < .005 | mg/l | | | WG541379 | 06/20/11 04:33 |
| trans-1,2-Dichloroethene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| trans-1,3-Dichloropropene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Trichloroethene | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Vinyl acetate | < .01 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Vinyl chloride | < .001 | mg/l | | | WG541379 | 06/20/11 04:33 |
| Xylenes, Total | < .003 | mg/l | | | WG541379 | 06/20/11 04:33 |
| 4-Bromofluorobenzene | | % Rec. | 104.1 | 75-128 | WG541379 | 06/20/11 04:33 |
| Dibromofluoromethane | | % Rec. | 101.8 | 79-125 | WG541379 | 06/20/11 04:33 |
| Toluene-d8 | | % Rec. | 99.77 | 87-114 | WG541379 | 06/20/11 04:33 |

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YOUR LAB OF CHOICE

ARCADIS U.S. GMC
 Holly M. Burger, Debra Hagerty
 10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
 Level II

L521787

12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 27, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| TPH (GC/FID) Low Fraction | < .1 | mg/l | | | WG541705 | 06/21/11 14:19 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 99.38 | 62-128 | WG541705 | 06/21/11 14:19 |
| Sulfate | < 5 | mg/l | | | WG541688 | 06/21/11 19:37 |
| Ferrous Iron | < .05 | mg/l | | | WG541701 | 06/23/11 09:10 |
| Phosphorus,Total | < .1 | mg/l | | | WG541597 | 06/23/11 11:55 |
| Alkalinity | < 20 | mg/l | | | WG541866 | 06/23/11 20:31 |
| C10-C22 Hydrocarbons | < .1 | mg/l | | | WG541643 | 06/26/11 23:58 |
| C22-C32 Hydrocarbons | < .1 | mg/l | | | WG541643 | 06/26/11 23:58 |
| C32-C40 Hydrocarbons | < .1 | mg/l | | | WG541643 | 06/26/11 23:58 |
| o-Terphenyl | | % Rec. | 113.5 | 50-150 | WG541643 | 06/26/11 23:58 |

| Analyte | Units | Duplicate | | RPD | Limit | Ref Samp | Batch |
|------------------|-------|-----------|-----------|-------|-------|------------|----------|
| | | Result | Duplicate | | | | |
| Nitrate | mg/l | 0 | 0 | 0 | 20 | L521764-01 | WG541299 |
| Sulfate | mg/l | 0 | 0 | 0 | 20 | L521764-01 | WG541299 |
| Nitrate | mg/l | 0 | 0 | 0 | 20 | L521787-04 | WG541299 |
| Sulfate | mg/l | 60.0 | 60.0 | 0.837 | 20 | L521117-28 | WG541688 |
| Ferrous Iron | mg/l | 0.210 | 0.210 | 0 | 20 | L521486-04 | WG541701 |
| Ferrous Iron | mg/l | 0.490 | 0.510 | 4.00 | 20 | L521787-04 | WG541701 |
| Phosphorus,Total | mg/l | 6.00 | 6.00 | 0.334 | 20 | L521488-02 | WG541597 |
| Phosphorus,Total | mg/l | 0 | 0.0660 | NA | 20 | L521447-01 | WG541597 |
| Alkalinity | mg/l | 1300 | 1400 | 6.64 | 20 | L521787-04 | WG541866 |
| Alkalinity | mg/l | 290. | 290. | 0.692 | 20 | L520902-04 | WG541866 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|---------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| Nitrate | mg/l | 8 | 8.13 | 102. | 90-110 | WG541299 |
| Sulfate | mg/l | 40 | 39.9 | 99.8 | 90-110 | WG541299 |
| 1,1,1,2-Tetrachloroethane | mg/l | .025 | 0.0250 | 99.8 | 75-134 | WG541379 |
| 1,1,1-Trichloroethane | mg/l | .025 | 0.0240 | 96.0 | 67-137 | WG541379 |
| 1,1,2,2-Tetrachloroethane | mg/l | .025 | 0.0269 | 107. | 72-128 | WG541379 |
| 1,1,2-Trichloroethane | mg/l | .025 | 0.0262 | 105. | 79-123 | WG541379 |
| 1,1-Dichloroethane | mg/l | .025 | 0.0245 | 98.0 | 67-133 | WG541379 |
| 1,1-Dichloroethene | mg/l | .025 | 0.0264 | 106. | 60-130 | WG541379 |
| 1,2,3-Trichlorobenzene | mg/l | .025 | 0.0246 | 98.4 | 63-138 | WG541379 |
| 1,2,4-Trichlorobenzene | mg/l | .025 | 0.0253 | 101. | 65-137 | WG541379 |
| 1,2,4-Trimethylbenzene | mg/l | .025 | 0.0236 | 94.3 | 72-135 | WG541379 |

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 Level II

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 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 27, 2011

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| 1,2-Dichlorobenzene | mg/l | .025 | 0.0244 | 97.5 | 75-122 | WG541379 |
| 1,2-Dichloroethane | mg/l | .025 | 0.0245 | 97.9 | 63-137 | WG541379 |
| 1,2-Dichloropropane | mg/l | .025 | 0.0237 | 94.7 | 74-122 | WG541379 |
| 1,3,5-Trimethylbenzene | mg/l | .025 | 0.0238 | 95.1 | 73-134 | WG541379 |
| 1,3-Dichlorobenzene | mg/l | .025 | 0.0256 | 102. | 73-131 | WG541379 |
| 1,3-Dichloropropane | mg/l | .025 | 0.0246 | 98.2 | 77-119 | WG541379 |
| 1,4-Dichlorobenzene | mg/l | .025 | 0.0244 | 97.7 | 70-121 | WG541379 |
| 2-Butanone (MEK) | mg/l | .125 | 0.142 | 114. | 53-132 | WG541379 |
| 4-Methyl-2-pentanone (MIBK) | mg/l | .125 | 0.138 | 110. | 60-142 | WG541379 |
| Acetone | mg/l | .125 | 0.129 | 103. | 48-134 | WG541379 |
| Benzene | mg/l | .025 | 0.0238 | 95.2 | 67-126 | WG541379 |
| Bromodichloromethane | mg/l | .025 | 0.0242 | 96.8 | 68-133 | WG541379 |
| Bromoform | mg/l | .025 | 0.0266 | 106. | 60-139 | WG541379 |
| Bromomethane | mg/l | .025 | 0.0225 | 90.1 | 45-175 | WG541379 |
| Carbon disulfide | mg/l | .025 | 0.0239 | 95.7 | 41-148 | WG541379 |
| Carbon tetrachloride | mg/l | .025 | 0.0243 | 97.1 | 64-141 | WG541379 |
| Chlorobenzene | mg/l | .025 | 0.0239 | 95.7 | 77-125 | WG541379 |
| Chloroethane | mg/l | .025 | 0.0201 | 80.4 | 49-155 | WG541379 |
| Chloroform | mg/l | .025 | 0.0250 | 100. | 66-126 | WG541379 |
| cis-1,2-Dichloroethene | mg/l | .025 | 0.0245 | 98.1 | 72-128 | WG541379 |
| cis-1,3-Dichloropropene | mg/l | .025 | 0.0241 | 96.5 | 73-131 | WG541379 |
| Di-isopropyl ether | mg/l | .025 | 0.0229 | 91.5 | 63-139 | WG541379 |
| Ethylbenzene | mg/l | .025 | 0.0245 | 97.9 | 76-129 | WG541379 |
| Hexachloro-1,3-butadiene | mg/l | .025 | 0.0225 | 90.1 | 67-135 | WG541379 |
| Isopropylbenzene | mg/l | .025 | 0.0260 | 104. | 73-132 | WG541379 |
| Methyl tert-butyl ether | mg/l | .025 | 0.0271 | 108. | 51-142 | WG541379 |
| Methylene Chloride | mg/l | .025 | 0.0250 | 100. | 64-125 | WG541379 |
| n-Hexane | mg/l | .025 | 0.0187 | 74.9 | 33-167 | WG541379 |
| Naphthalene | mg/l | .025 | 0.0248 | 99.3 | 56-145 | WG541379 |
| Styrene | mg/l | .025 | 0.0178 | 71.4* | 78-130 | WG541379 |
| Tetrachloroethene | mg/l | .025 | 0.0241 | 96.5 | 67-135 | WG541379 |
| Toluene | mg/l | .025 | 0.0236 | 94.5 | 72-122 | WG541379 |
| trans-1,2-Dichloroethene | mg/l | .025 | 0.0232 | 92.8 | 67-129 | WG541379 |
| trans-1,3-Dichloropropene | mg/l | .025 | 0.0246 | 98.2 | 66-137 | WG541379 |
| Trichloroethene | mg/l | .025 | 0.0240 | 95.9 | 74-126 | WG541379 |
| Vinyl acetate | mg/l | .125 | 0.121 | 96.9 | 34-178 | WG541379 |
| Vinyl chloride | mg/l | .025 | 0.0189 | 75.5 | 55-153 | WG541379 |
| Xylenes, Total | mg/l | .075 | 0.0719 | 95.9 | 75-128 | WG541379 |
| 4-Bromofluorobenzene | | | | 97.56 | 75-128 | WG541379 |
| Dibromofluoromethane | | | | 103.8 | 79-125 | WG541379 |
| Toluene-d8 | | | | 100.7 | 87-114 | WG541379 |
| TPH (GC/FID) Low Fraction | mg/l | 5.5 | 5.46 | 99.3 | 70-124 | WG541705 |
| a,a,a-Trifluorotoluene(FID) | | | | 105.6 | 62-128 | WG541705 |
| Sulfate | mg/l | 40 | 39.3 | 98.3 | 90-110 | WG541688 |
| Ferrous Iron | mg/l | 1 | 1.00 | 100. | 85-115 | WG541701 |
| Phosphorus, Total | mg/l | 1 | 0.983 | 98.3 | 85-115 | WG541597 |
| Alkalinity | mg/l | 40 | 40.5 | 101. | 85-115 | WG541866 |

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| Analyte | Units | Laboratory Control | | Sample | % Rec | Limit | Batch |
|----------------------|-------|--------------------|--------|--------|-------|--------|----------|
| | | Known Val | Result | Result | | | |
| C10-C22 Hydrocarbons | mg/l | .75 | | 1.00 | 133. | 50-150 | WG541643 |
| C22-C32 Hydrocarbons | mg/l | .75 | | 0.545 | 72.7 | 70-130 | WG541643 |
| o-Terphenyl | | | | | 106.3 | 50-150 | WG541643 |

| Analyte | Units | Laboratory Control | | Sample | %Rec | Limit | RPD | Limit | Batch |
|-----------------------------|-------|--------------------|--------|--------|-------|--------|-------|-------|----------|
| | | Result | Ref | Result | | | | | |
| Nitrate | mg/l | 8.13 | 8.13 | | 102. | 90-110 | 0 | 20 | WG541299 |
| Sulfate | mg/l | 39.8 | 39.9 | | 100. | 90-110 | 0.251 | 20 | WG541299 |
| 1,1,1,2-Tetrachloroethane | mg/l | 0.0253 | 0.0250 | | 101. | 75-134 | 1.38 | 20 | WG541379 |
| 1,1,1-Trichloroethane | mg/l | 0.0235 | 0.0240 | | 94.0 | 67-137 | 2.26 | 20 | WG541379 |
| 1,1,2,2-Tetrachloroethane | mg/l | 0.0271 | 0.0269 | | 108. | 72-128 | 0.870 | 20 | WG541379 |
| 1,1,2-Trichloroethane | mg/l | 0.0260 | 0.0262 | | 104. | 79-123 | 0.710 | 20 | WG541379 |
| 1,1-Dichloroethane | mg/l | 0.0233 | 0.0245 | | 93.0 | 67-133 | 4.88 | 20 | WG541379 |
| 1,1-Dichloroethene | mg/l | 0.0250 | 0.0264 | | 100. | 60-130 | 5.62 | 20 | WG541379 |
| 1,2,3-Trichlorobenzene | mg/l | 0.0236 | 0.0246 | | 94.0 | 63-138 | 4.18 | 20 | WG541379 |
| 1,2,4-Trichlorobenzene | mg/l | 0.0238 | 0.0253 | | 95.0 | 65-137 | 5.84 | 20 | WG541379 |
| 1,2,4-Trimethylbenzene | mg/l | 0.0234 | 0.0236 | | 94.0 | 72-135 | 0.770 | 20 | WG541379 |
| 1,2-Dichlorobenzene | mg/l | 0.0240 | 0.0244 | | 96.0 | 75-122 | 1.53 | 20 | WG541379 |
| 1,2-Dichloroethane | mg/l | 0.0246 | 0.0245 | | 98.0 | 63-137 | 0.290 | 20 | WG541379 |
| 1,2-Dichloropropane | mg/l | 0.0229 | 0.0237 | | 91.0 | 74-122 | 3.42 | 20 | WG541379 |
| 1,3,5-Trimethylbenzene | mg/l | 0.0233 | 0.0238 | | 93.0 | 73-134 | 1.89 | 20 | WG541379 |
| 1,3-Dichlorobenzene | mg/l | 0.0250 | 0.0256 | | 100. | 73-131 | 2.43 | 20 | WG541379 |
| 1,3-Dichloropropane | mg/l | 0.0247 | 0.0246 | | 99.0 | 77-119 | 0.600 | 20 | WG541379 |
| 1,4-Dichlorobenzene | mg/l | 0.0235 | 0.0244 | | 94.0 | 70-121 | 3.86 | 20 | WG541379 |
| 2-Butanone (MEK) | mg/l | 0.137 | 0.142 | | 110. | 53-132 | 3.64 | 20 | WG541379 |
| 4-Methyl-2-pentanone (MIBK) | mg/l | 0.137 | 0.138 | | 109. | 60-142 | 0.850 | 20 | WG541379 |
| Acetone | mg/l | 0.126 | 0.129 | | 101. | 48-134 | 2.20 | 20 | WG541379 |
| Benzene | mg/l | 0.0237 | 0.0238 | | 95.0 | 67-126 | 0.500 | 20 | WG541379 |
| Bromodichloromethane | mg/l | 0.0232 | 0.0242 | | 93.0 | 68-133 | 4.18 | 20 | WG541379 |
| Bromoform | mg/l | 0.0274 | 0.0266 | | 110. | 60-139 | 3.24 | 20 | WG541379 |
| Bromomethane | mg/l | 0.0220 | 0.0225 | | 88.0 | 45-175 | 2.32 | 20 | WG541379 |
| Carbon disulfide | mg/l | 0.0228 | 0.0239 | | 91.0 | 41-148 | 4.74 | 20 | WG541379 |
| Carbon tetrachloride | mg/l | 0.0232 | 0.0243 | | 93.0 | 64-141 | 4.29 | 20 | WG541379 |
| Chlorobenzene | mg/l | 0.0244 | 0.0239 | | 97.0 | 77-125 | 1.78 | 20 | WG541379 |
| Chloroethane | mg/l | 0.0193 | 0.0201 | | 77.0 | 49-155 | 3.78 | 20 | WG541379 |
| Chloroform | mg/l | 0.0243 | 0.0250 | | 97.0 | 66-126 | 2.99 | 20 | WG541379 |
| cis-1,2-Dichloroethene | mg/l | 0.0236 | 0.0245 | | 94.0 | 72-128 | 3.67 | 20 | WG541379 |
| cis-1,3-Dichloropropene | mg/l | 0.0240 | 0.0241 | | 96.0 | 73-131 | 0.580 | 20 | WG541379 |
| Di-isopropyl ether | mg/l | 0.0225 | 0.0229 | | 90.0 | 63-139 | 1.52 | 20 | WG541379 |
| Ethylbenzene | mg/l | 0.0247 | 0.0245 | | 99.0 | 76-129 | 0.810 | 20 | WG541379 |
| Hexachloro-1,3-butadiene | mg/l | 0.0214 | 0.0225 | | 85.0 | 67-135 | 5.32 | 20 | WG541379 |
| Isopropylbenzene | mg/l | 0.0256 | 0.0260 | | 102. | 73-132 | 1.58 | 20 | WG541379 |
| Methyl tert-butyl ether | mg/l | 0.0263 | 0.0271 | | 105. | 51-142 | 2.95 | 20 | WG541379 |
| Methylene Chloride | mg/l | 0.0242 | 0.0250 | | 97.0 | 64-125 | 3.32 | 20 | WG541379 |
| n-Hexane | mg/l | 0.0167 | 0.0187 | | 67.0 | 33-167 | 11.7 | 20 | WG541379 |
| Naphthalene | mg/l | 0.0240 | 0.0248 | | 96.0 | 56-145 | 3.55 | 20 | WG541379 |
| Styrene | mg/l | 0.0183 | 0.0178 | | 73* | 78-130 | 2.70 | 20 | WG541379 |
| Tetrachloroethene | mg/l | 0.0235 | 0.0241 | | 94.0 | 67-135 | 2.50 | 20 | WG541379 |
| Toluene | mg/l | 0.0232 | 0.0236 | | 93.0 | 72-122 | 1.95 | 20 | WG541379 |
| trans-1,2-Dichloroethene | mg/l | 0.0219 | 0.0232 | | 88.0 | 67-129 | 5.68 | 20 | WG541379 |
| trans-1,3-Dichloropropene | mg/l | 0.0237 | 0.0246 | | 95.0 | 66-137 | 3.46 | 20 | WG541379 |
| Trichloroethene | mg/l | 0.0228 | 0.0240 | | 91.0 | 74-126 | 4.90 | 20 | WG541379 |
| Vinyl acetate | mg/l | 0.120 | 0.121 | | 96.0 | 34-178 | 1.14 | 26 | WG541379 |
| Vinyl chloride | mg/l | 0.0182 | 0.0189 | | 73.0 | 55-153 | 3.64 | 20 | WG541379 |
| Xylenes, Total | mg/l | 0.0730 | 0.0719 | | 97.0 | 75-128 | 1.48 | 20 | WG541379 |
| 4-Bromofluorobenzene | | | | | 102.3 | 75-128 | | | WG541379 |

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Est. 1970

June 27, 2011

| Analyte | Laboratory Control Sample Duplicate | | | | Limit | RPD | Limit | Batch |
|-----------------------------|-------------------------------------|--------|-------|-------|--------|-------|-------|----------|
| | Units | Result | Ref | %Rec | | | | |
| Dibromofluoromethane | | | | 103.3 | 79-125 | | | |
| Toluene-d8 | | | | 101.8 | 87-114 | | | |
| TPH (GC/FID) Low Fraction | mg/l | 5.51 | 5.46 | 100. | 70-124 | 0.840 | 20 | WG541705 |
| a,a,a-Trifluorotoluene(FID) | | | | 106.2 | 62-128 | | | WG541705 |
| Sulfate | mg/l | 39.4 | 39.3 | 98.0 | 90-110 | 0.254 | 20 | WG541688 |
| Ferrous Iron | mg/l | 1.00 | 1.00 | 100. | 85-115 | 0 | 20 | WG541701 |
| Phosphorus, Total | mg/l | 1.00 | 0.983 | 100. | 85-115 | 1.71 | 20 | WG541597 |
| Alkalinity | mg/l | 39.6 | 40.5 | 99.0 | 85-115 | 2.25 | 20 | WG541866 |
| C10-C22 Hydrocarbons | mg/l | 1.00 | 1.00 | 134. | 50-150 | 0.158 | 20 | WG541643 |
| C22-C32 Hydrocarbons | mg/l | 0.554 | 0.545 | 74.0 | 70-130 | 1.50 | 20 | WG541643 |
| o-Terphenyl | | | | 108.5 | 50-150 | | | WG541643 |

| Analyte | Units | Matrix Spike | | | % Rec | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|---------|------|-------|--------|------------|----------|
| | | MS Res | Ref Res | TV | | | | |
| Nitrate | mg/l | 5.43 | 0.510 | 5 | 98.4 | 80-120 | L521764-04 | WG541299 |
| 1,1,1,2-Tetrachloroethane | mg/l | 0.0265 | 0 | .025 | 106. | 45-152 | L521687-01 | WG541379 |
| 1,1,1-Trichloroethane | mg/l | 0.0275 | 0 | .025 | 110. | 31-161 | L521687-01 | WG541379 |
| 1,1,2,2-Tetrachloroethane | mg/l | 0.0257 | 0 | .025 | 103. | 49-149 | L521687-01 | WG541379 |
| 1,1,2-Trichloroethane | mg/l | 0.0263 | 0 | .025 | 105. | 46-145 | L521687-01 | WG541379 |
| 1,1-Dichloroethane | mg/l | 0.0275 | 0 | .025 | 110. | 30-159 | L521687-01 | WG541379 |
| 1,1-Dichloroethene | mg/l | 0.0328 | 0 | .025 | 131. | 10-162 | L521687-01 | WG541379 |
| 1,2,3-Trichlorobenzene | mg/l | 0.0252 | 0 | .025 | 101. | 32-143 | L521687-01 | WG541379 |
| 1,2,4-Trichlorobenzene | mg/l | 0.0257 | 0 | .025 | 103. | 27-142 | L521687-01 | WG541379 |
| 1,2,4-Trimethylbenzene | mg/l | 0.0248 | 0 | .025 | 99.1 | 29-153 | L521687-01 | WG541379 |
| 1,2-Dichlorobenzene | mg/l | 0.0242 | 0 | .025 | 96.8 | 40-139 | L521687-01 | WG541379 |
| 1,2-Dichloroethane | mg/l | 0.0266 | 0 | .025 | 106. | 29-167 | L521687-01 | WG541379 |
| 1,2-Dichloropropane | mg/l | 0.0244 | 0 | .025 | 97.6 | 39-148 | L521687-01 | WG541379 |
| 1,3,5-Trimethylbenzene | mg/l | 0.0252 | 0 | .025 | 101. | 33-149 | L521687-01 | WG541379 |
| 1,3-Dichlorobenzene | mg/l | 0.0258 | 0 | .025 | 103. | 32-148 | L521687-01 | WG541379 |
| 1,3-Dichloropropane | mg/l | 0.0252 | 0 | .025 | 101. | 44-142 | L521687-01 | WG541379 |
| 1,4-Dichlorobenzene | mg/l | 0.0247 | 0 | .025 | 98.9 | 32-136 | L521687-01 | WG541379 |
| 2-Butanone (MEK) | mg/l | 0.135 | 0 | .125 | 108. | 32-151 | L521687-01 | WG541379 |
| 4-Methyl-2-pentanone (MIBK) | mg/l | 0.130 | 0 | .125 | 104. | 40-160 | L521687-01 | WG541379 |
| Acetone | mg/l | 0.107 | 0 | .125 | 85.5 | 25-157 | L521687-01 | WG541379 |
| Benzene | mg/l | 0.0273 | 0 | .025 | 109. | 16-158 | L521687-01 | WG541379 |
| Bromodichloromethane | mg/l | 0.0244 | 0 | .025 | 97.7 | 45-147 | L521687-01 | WG541379 |
| Bromoform | mg/l | 0.0275 | 0 | .025 | 110. | 38-152 | L521687-01 | WG541379 |
| Bromomethane | mg/l | 0.0280 | 0 | .025 | 112. | 0-191 | L521687-01 | WG541379 |
| Carbon disulfide | mg/l | 0.0390 | 0 | .025 | 156. | 10-166 | L521687-01 | WG541379 |
| Carbon tetrachloride | mg/l | 0.0283 | 0 | .025 | 113. | 22-168 | L521687-01 | WG541379 |
| Chlorobenzene | mg/l | 0.0253 | 0 | .025 | 101. | 33-148 | L521687-01 | WG541379 |
| Chloroethane | mg/l | 0.0249 | 0 | .025 | 99.6 | 4-176 | L521687-01 | WG541379 |
| Chloroform | mg/l | 0.0268 | 0 | .025 | 107. | 37-147 | L521687-01 | WG541379 |
| cis-1,2-Dichloroethene | mg/l | 0.0269 | 0 | .025 | 108. | 29-156 | L521687-01 | WG541379 |
| cis-1,3-Dichloropropene | mg/l | 0.0242 | 0 | .025 | 96.7 | 35-148 | L521687-01 | WG541379 |
| Di-isopropyl ether | mg/l | 0.0238 | 0 | .025 | 95.2 | 39-160 | L521687-01 | WG541379 |

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

ARCADIS U.S. GMC
 Holly M. Burger, Debra Hagerty
 10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
 Level II

L521787

12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 27, 2011

| Analyte | Units | MS Res | Matrix Spike | | % Rec | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|--------------|------|-------|--------|------------|----------|
| | | | Ref Res | TV | | | | |
| Ethylbenzene | mg/l | 0.0261 | 0 | .025 | 104. | 29-150 | L521687-01 | WG541379 |
| Hexachloro-1,3-butadiene | mg/l | 0.0230 | 0 | .025 | 91.9 | 28-144 | L521687-01 | WG541379 |
| Isopropylbenzene | mg/l | 0.0280 | 0 | .025 | 112. | 35-147 | L521687-01 | WG541379 |
| Methyl tert-butyl ether | mg/l | 0.0277 | 0 | .025 | 111. | 24-167 | L521687-01 | WG541379 |
| Methylene Chloride | mg/l | 0.0287 | 0.000715 | .025 | 112. | 23-151 | L521687-01 | WG541379 |
| n-Hexane | mg/l | 0.0262 | 0 | .025 | 105. | 10-176 | L521687-01 | WG541379 |
| Naphthalene | mg/l | 0.0244 | 0 | .025 | 97.4 | 24-160 | L521687-01 | WG541379 |
| Styrene | mg/l | 0.0178 | 0 | .025 | 71.3 | 38-149 | L521687-01 | WG541379 |
| Tetrachloroethene | mg/l | 0.0278 | 0 | .025 | 111. | 13-157 | L521687-01 | WG541379 |
| Toluene | mg/l | 0.0255 | 0 | .025 | 102. | 22-152 | L521687-01 | WG541379 |
| trans-1,2-Dichloroethene | mg/l | 0.0292 | 0 | .025 | 117. | 11-160 | L521687-01 | WG541379 |
| trans-1,3-Dichloropropene | mg/l | 0.0239 | 0 | .025 | 95.6 | 33-153 | L521687-01 | WG541379 |
| Trichloroethene | mg/l | 0.0267 | 0 | .025 | 107. | 18-163 | L521687-01 | WG541379 |
| Vinyl acetate | mg/l | 0.131 | 0 | .125 | 105. | 0-196 | L521687-01 | WG541379 |
| Vinyl chloride | mg/l | 0.0252 | 0 | .025 | 101. | 0-179 | L521687-01 | WG541379 |
| Xylenes, Total | mg/l | 0.0758 | 0 | .075 | 101. | 27-151 | L521687-01 | WG541379 |
| 4-Bromofluorobenzene | | | | | 95.10 | 75-128 | | WG541379 |
| Dibromofluoromethane | | | | | 105.2 | 79-125 | | WG541379 |
| Toluene-d8 | | | | | 99.05 | 87-114 | | WG541379 |
| TPH (GC/FID) Low Fraction | mg/l | 5.65 | 0 | 5.5 | 103. | 55-109 | L521656-05 | WG541705 |
| a,a,a-Trifluorotoluene(FID) | | | | | 106.0 | 62-128 | | WG541705 |
| Ferrous Iron | mg/l | 1.70 | 0.0900 | 1.5 | 107. | 80-120 | L521486-05 | WG541701 |
| Phosphorus, Total | mg/l | 2.54 | 0.0900 | 2.5 | 98.0 | 80-120 | L521447-02 | WG541597 |
| Alkalinity | mg/l | 437. | 290. | 200 | 73.5* | 80-120 | L520902-03 | WG541866 |

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|------------------------|------|--------|-------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| Nitrate | mg/l | 5.53 | 5.43 | 100. | 80-120 | 1.82 | 20 | L521764-04 | WG541299 |
| 1,1,1,2-Tetrachloroethane | mg/l | 0.0263 | 0.0265 | 105. | 45-152 | 0.610 | 21 | L521687-01 | WG541379 |
| 1,1,1-Trichloroethane | mg/l | 0.0272 | 0.0275 | 109. | 31-161 | 1.05 | 23 | L521687-01 | WG541379 |
| 1,1,2,2-Tetrachloroethane | mg/l | 0.0286 | 0.0257 | 114. | 49-149 | 10.6 | 22 | L521687-01 | WG541379 |
| 1,1,2-Trichloroethane | mg/l | 0.0271 | 0.0263 | 108. | 46-145 | 3.07 | 20 | L521687-01 | WG541379 |
| 1,1-Dichloroethane | mg/l | 0.0266 | 0.0275 | 106. | 30-159 | 3.60 | 21 | L521687-01 | WG541379 |
| 1,1-Dichloroethene | mg/l | 0.0312 | 0.0328 | 125. | 10-162 | 4.82 | 23 | L521687-01 | WG541379 |
| 1,2,3-Trichlorobenzene | mg/l | 0.0246 | 0.0252 | 98.3 | 32-143 | 2.53 | 33 | L521687-01 | WG541379 |
| 1,2,4-Trichlorobenzene | mg/l | 0.0252 | 0.0257 | 101. | 27-142 | 1.82 | 30 | L521687-01 | WG541379 |
| 1,2,4-Trimethylbenzene | mg/l | 0.0244 | 0.0248 | 97.6 | 29-153 | 1.45 | 27 | L521687-01 | WG541379 |
| 1,2-Dichlorobenzene | mg/l | 0.0248 | 0.0242 | 99.2 | 40-139 | 2.45 | 23 | L521687-01 | WG541379 |
| 1,2-Dichloroethane | mg/l | 0.0273 | 0.0266 | 109. | 29-167 | 2.45 | 21 | L521687-01 | WG541379 |
| 1,2-Dichloropropane | mg/l | 0.0255 | 0.0244 | 102. | 39-148 | 4.46 | 20 | L521687-01 | WG541379 |
| 1,3,5-Trimethylbenzene | mg/l | 0.0249 | 0.0252 | 99.6 | 33-149 | 1.35 | 26 | L521687-01 | WG541379 |
| 1,3-Dichlorobenzene | mg/l | 0.0266 | 0.0258 | 106. | 32-148 | 3.20 | 24 | L521687-01 | WG541379 |
| 1,3-Dichloropropane | mg/l | 0.0268 | 0.0252 | 107. | 44-142 | 6.15 | 20 | L521687-01 | WG541379 |
| 1,4-Dichlorobenzene | mg/l | 0.0242 | 0.0247 | 96.6 | 32-136 | 2.33 | 23 | L521687-01 | WG541379 |
| 2-Butanone (MEK) | mg/l | 0.147 | 0.135 | 118. | 32-151 | 8.57 | 26 | L521687-01 | WG541379 |
| 4-Methyl-2-pentanone (MIBK) | mg/l | 0.151 | 0.130 | 120. | 40-160 | 14.6 | 28 | L521687-01 | WG541379 |
| Acetone | mg/l | 0.116 | 0.107 | 92.9 | 25-157 | 8.29 | 26 | L521687-01 | WG541379 |
| Benzene | mg/l | 0.0270 | 0.0273 | 108. | 16-158 | 1.18 | 21 | L521687-01 | WG541379 |

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Quality Assurance Report
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L521787

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 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 27, 2011

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|------------------------|-------|--------|--------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| Bromodichloromethane | mg/l | 0.0252 | 0.0244 | 101. | 45-147 | 3.29 | 20 | L521687-01 | WG541379 |
| Bromoform | mg/l | 0.0297 | 0.0275 | 119. | 38-152 | 7.55 | 20 | L521687-01 | WG541379 |
| Bromomethane | mg/l | 0.0270 | 0.0280 | 108. | 0-191 | 3.56 | 35 | L521687-01 | WG541379 |
| Carbon disulfide | mg/l | 0.0373 | 0.0390 | 149. | 10-166 | 4.42 | 25 | L521687-01 | WG541379 |
| Carbon tetrachloride | mg/l | 0.0282 | 0.0283 | 113. | 22-168 | 0.550 | 24 | L521687-01 | WG541379 |
| Chlorobenzene | mg/l | 0.0258 | 0.0253 | 103. | 33-148 | 1.92 | 22 | L521687-01 | WG541379 |
| Chloroethane | mg/l | 0.0246 | 0.0249 | 98.4 | 4-176 | 1.30 | 27 | L521687-01 | WG541379 |
| Chloroform | mg/l | 0.0261 | 0.0268 | 104. | 37-147 | 2.65 | 21 | L521687-01 | WG541379 |
| cis-1,2-Dichloroethene | mg/l | 0.0266 | 0.0269 | 106. | 29-156 | 1.06 | 22 | L521687-01 | WG541379 |
| cis-1,3-Dichloropropene | mg/l | 0.0254 | 0.0242 | 102. | 35-148 | 4.99 | 21 | L521687-01 | WG541379 |
| Di-isopropyl ether | mg/l | 0.0243 | 0.0238 | 97.1 | 39-160 | 1.96 | 21 | L521687-01 | WG541379 |
| Ethylbenzene | mg/l | 0.0262 | 0.0261 | 105. | 29-150 | 0.410 | 24 | L521687-01 | WG541379 |
| Hexachloro-1,3-butadiene | mg/l | 0.0228 | 0.0230 | 91.1 | 28-144 | 0.900 | 33 | L521687-01 | WG541379 |
| Isopropylbenzene | mg/l | 0.0276 | 0.0280 | 110. | 35-147 | 1.51 | 25 | L521687-01 | WG541379 |
| Methyl tert-butyl ether | mg/l | 0.0293 | 0.0277 | 117. | 24-167 | 5.49 | 22 | L521687-01 | WG541379 |
| Methylene Chloride | mg/l | 0.0287 | 0.0287 | 112. | 23-151 | 0.290 | 21 | L521687-01 | WG541379 |
| n-Hexane | mg/l | 0.0262 | 0.0262 | 105. | 10-176 | 0.0600 | 23 | L521687-01 | WG541379 |
| Naphthalene | mg/l | 0.0257 | 0.0244 | 103. | 24-160 | 5.37 | 37 | L521687-01 | WG541379 |
| Styrene | mg/l | 0.0188 | 0.0178 | 75.3 | 38-149 | 5.52 | 23 | L521687-01 | WG541379 |
| Tetrachloroethene | mg/l | 0.0277 | 0.0278 | 111. | 13-157 | 0.440 | 24 | L521687-01 | WG541379 |
| Toluene | mg/l | 0.0265 | 0.0255 | 106. | 22-152 | 3.80 | 22 | L521687-01 | WG541379 |
| trans-1,2-Dichloroethene | mg/l | 0.0283 | 0.0292 | 113. | 11-160 | 3.05 | 23 | L521687-01 | WG541379 |
| trans-1,3-Dichloropropene | mg/l | 0.0264 | 0.0239 | 105. | 33-153 | 9.74 | 22 | L521687-01 | WG541379 |
| Trichloroethene | mg/l | 0.0270 | 0.0267 | 108. | 18-163 | 1.17 | 21 | L521687-01 | WG541379 |
| Vinyl acetate | mg/l | 0.139 | 0.131 | 111. | 0-196 | 5.91 | 26 | L521687-01 | WG541379 |
| Vinyl chloride | mg/l | 0.0237 | 0.0252 | 94.9 | 0-179 | 6.17 | 26 | L521687-01 | WG541379 |
| Xylenes, Total | mg/l | 0.0772 | 0.0758 | 103. | 27-151 | 1.82 | 23 | L521687-01 | WG541379 |
| 4-Bromofluorobenzene | | | | 99.63 | 75-128 | | | | WG541379 |
| Dibromofluoromethane | | | | 103.8 | 79-125 | | | | WG541379 |
| Toluene-d8 | | | | 101.8 | 87-114 | | | | WG541379 |
| TPH (GC/FID) Low Fraction | mg/l | 5.70 | 5.65 | 104. | 55-109 | 0.910 | 20 | L521656-05 | WG541705 |
| a,a,a-Trifluorotoluene(FID) | | | | 105.5 | 62-128 | | | | WG541705 |
| Ferrous Iron | mg/l | 1.70 | 1.70 | 107. | 80-120 | 0 | 20 | L521486-05 | WG541701 |
| Phosphorus,Total | mg/l | 2.57 | 2.54 | 99.2 | 80-120 | 1.17 | 20 | L521447-02 | WG541597 |
| Alkalinity | mg/l | 437. | 437. | 73.5* | 80-120 | 0 | 20 | L520902-03 | WG541866 |

Batch number /Run number / Sample number cross reference

WG541299: R1729754: L521787-01 02 03 04
 WG541379: R1730770: L521787-01 02 03 04
 WG541705: R1732170: L521787-01 02 03 04
 WG541688: R1732749: L521787-01 04
 WG541701: R1735251: L521787-01 02 03 04
 WG541597: R1736169: L521787-01 02 03 04
 WG541866: R1736469: L521787-01 02 03 04
 WG541643: R1740169: L521787-01 02 03 04

* * Calculations are performed prior to rounding of reported values.
 * Performance of this Analyte is outside of established criteria.
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YOUR LAB OF CHOICE

ARCADIS U.S. GMC
Holly M. Burger, Debra Hagerty
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L521787

12065 Lebanon Rd.
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 27, 2011

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

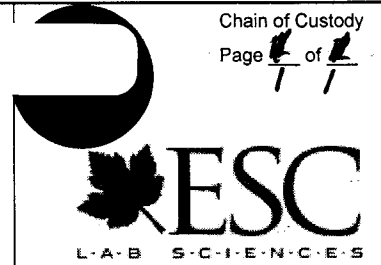
ARCADIS U.S. GMC

10559 Citation Dr. Ste 100
Brighton, MI 48116

Billing information:
Brad Saunders
10559 Citation Dr, Ste 100
Brighton, MI 48116

Analysis/Container/Preservative

E076



Chain of Custody
Page 1 of 1

12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

Report to: **Holly M. Burger, Debra Hagerty**
Email: **debra.hagerty@arcadis-us.co**

Project Description: **Oakland Truck Center**
City/State Collected: **Oakland, CA**

Phone: (810) 225-1904
FAX: (810) 229-8837
Client Project #: **B0064601.0000.00007**
Lab Project #: **ARCABMI-OAKLANDCAT**

Collected by (print): **Karl Johnson**
Site/Facility ID#: **8099 S. COLISEUM WA**
P.O.#: **B0064601-0000**

Collected by (signature): *[Signature]*
Immediately Packed on Ice N Y
Rush? (Lab MUST Be Notified)
 ___ Same Day 200%
 ___ Next Day 100%
 ___ Two Day 50%
 ___ Three Day 25%
 Date Results Needed: **10 day TAT**
 Email? ___ No ___ Yes
 FAX? ___ No ___ Yes

| | | | | | | |
|----------------------|------------------------|----------------------|-----------------|-----------------------------------|--------------------|----------------------|
| ALK 500mlHDPE-NoPres | DROCAER 1L-Amb-Add HCl | FERUSFE 250mlAmb-HCl | GRO 40mlAmb HCl | Nitrate Sulfate 12.5mlHDPE-NoPres | PT 250mlHDPE-H2SO4 | V8260OXY 40mlAmb-HCl |
|----------------------|------------------------|----------------------|-----------------|-----------------------------------|--------------------|----------------------|

Acctnum: **ARCABMI** (lab use only)
 Template/Prelogin: **T70272 P358745**
 Cooler #: **67-116**
 Shipped Via: **FedEX 2nd Day**

| Sample ID | Comp/Grab | Matrix* | Depth | Date | Time | No. of Cntrs | ALK 500mlHDPE-NoPres | DROCAER 1L-Amb-Add HCl | FERUSFE 250mlAmb-HCl | GRO 40mlAmb HCl | Nitrate Sulfate 12.5mlHDPE-NoPres | PT 250mlHDPE-H2SO4 | V8260OXY 40mlAmb-HCl | Remarks/Contaminant | Sample # (lab only) |
|----------------------|-----------|---------|-------|---------|------|--------------|----------------------|------------------------|----------------------|-----------------|-----------------------------------|--------------------|----------------------|---------------------|---------------------|
| MW-3 | | GW | | 6/17/11 | 0500 | 9 | X | X | X | X | X | X | X | | 652178721 |
| MW-5 | | GW | | ↓ | 1045 | 9 | X | X | X | X | X | X | X | | 02 |
| MW-6 | | GW | | ↓ | 1130 | 9 | X | X | X | X | X | X | X | | 03 |
| DUP | | GW | | — | — | 9 | X | X | X | X | X | X | X | | 04 |
| Trip Blank - ON HOLD | | GW | | — | — | 1 | | | | | | | | | |

Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____
Flow _____ Other _____

Remarks: Please also place Trip Blanks from coolers shipped on 6/16/11 on hold.

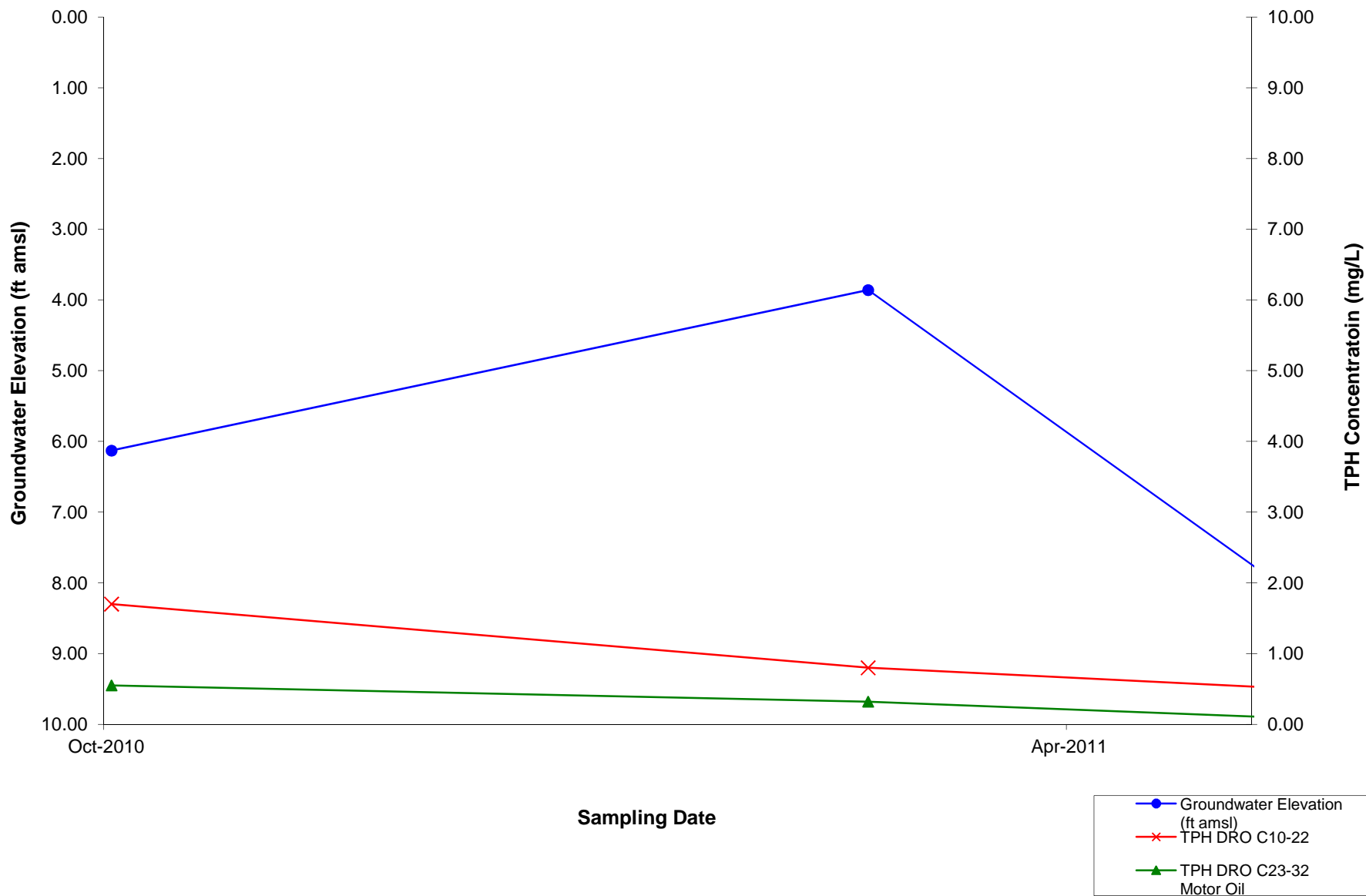
| | | | | | |
|---|---------------|------------|---|--|--|
| Relinquished by (Signature): <i>[Signature]</i> | Date: 6/17/11 | Time: 1300 | Received by (Signature): <i>[Signature]</i> | Samples returned via: <input checked="" type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier | Condition: (lab use only) <i>[Signature]</i> |
| Relinquished by (Signature): <i>[Signature]</i> | Date: | Time: | Received by (Signature): <i>[Signature]</i> | Temp: 31.0 | Bottles Received: 30 |
| Relinquished by (Signature): <i>[Signature]</i> | Date: | Time: | Received for lab by (Signature): <i>[Signature]</i> | Date: 6/19/11 | Time: 0600 |
| | | | | pH Checked: | NCF: <input checked="" type="checkbox"/> |

ARCADIS

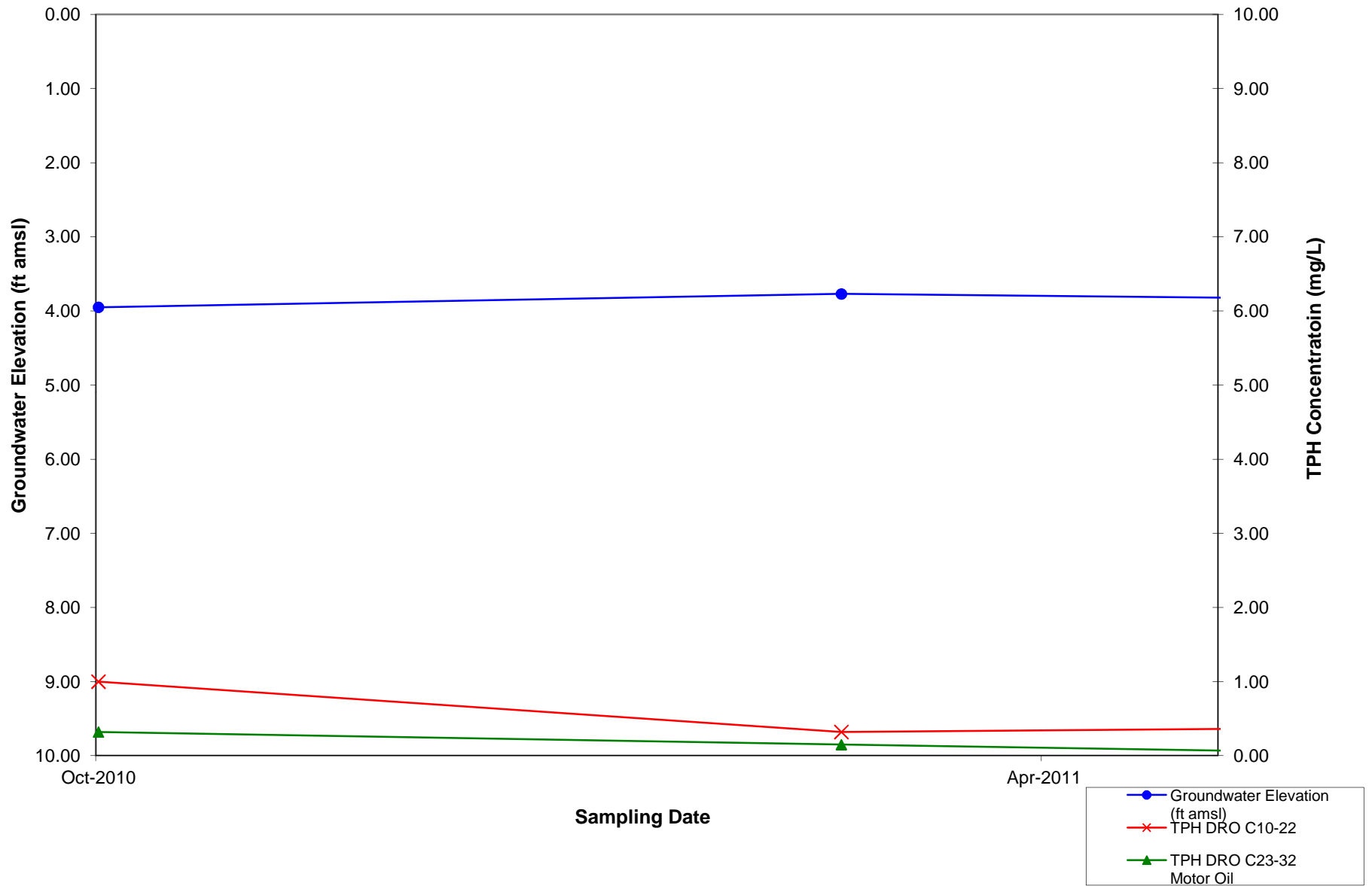
Appendix D

Hydrographs

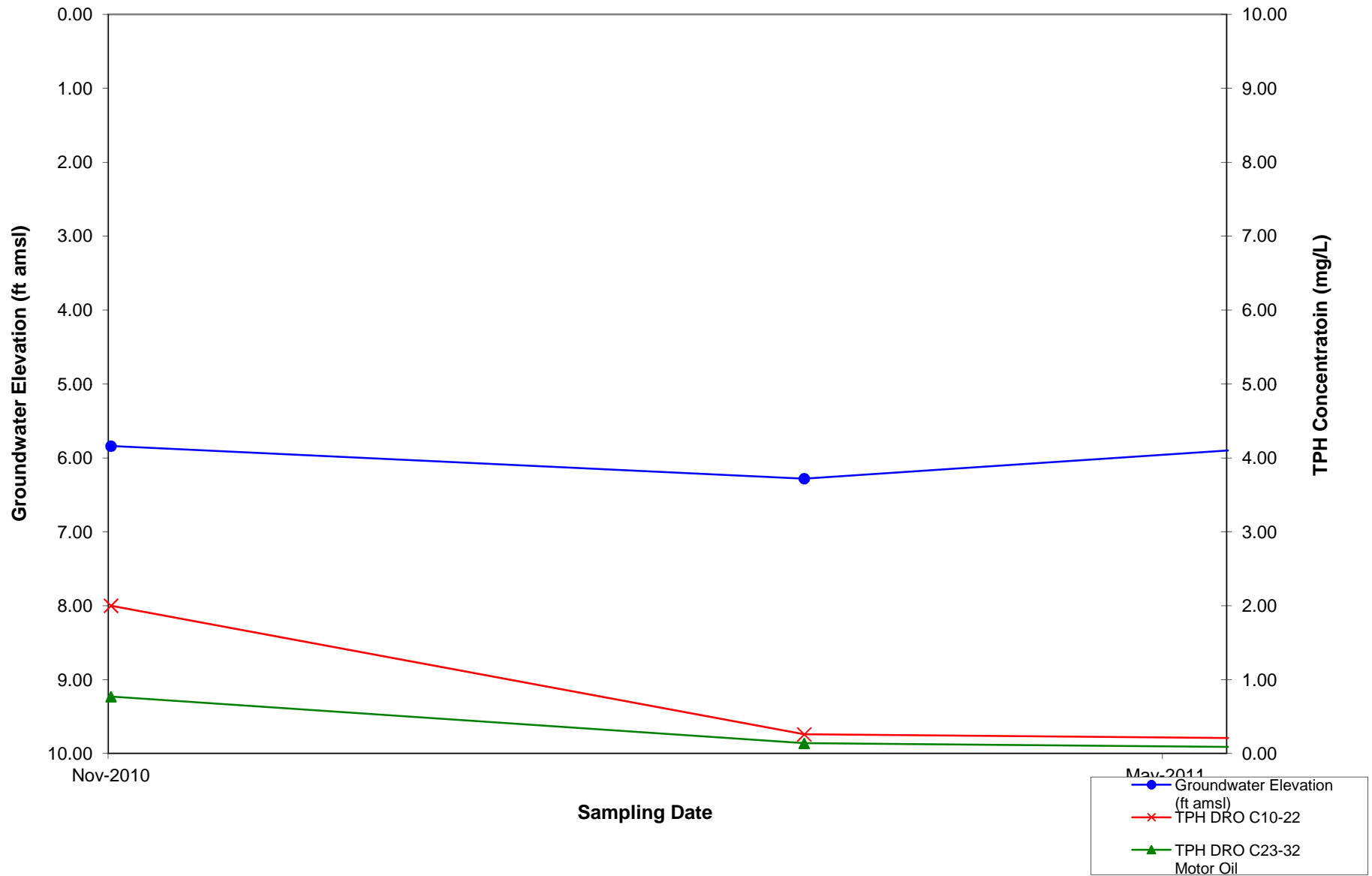
TPH DRO and Groundwater Elevation Trend in MW-1



TPH DRO and Groundwater Elevation Trend in MW-2

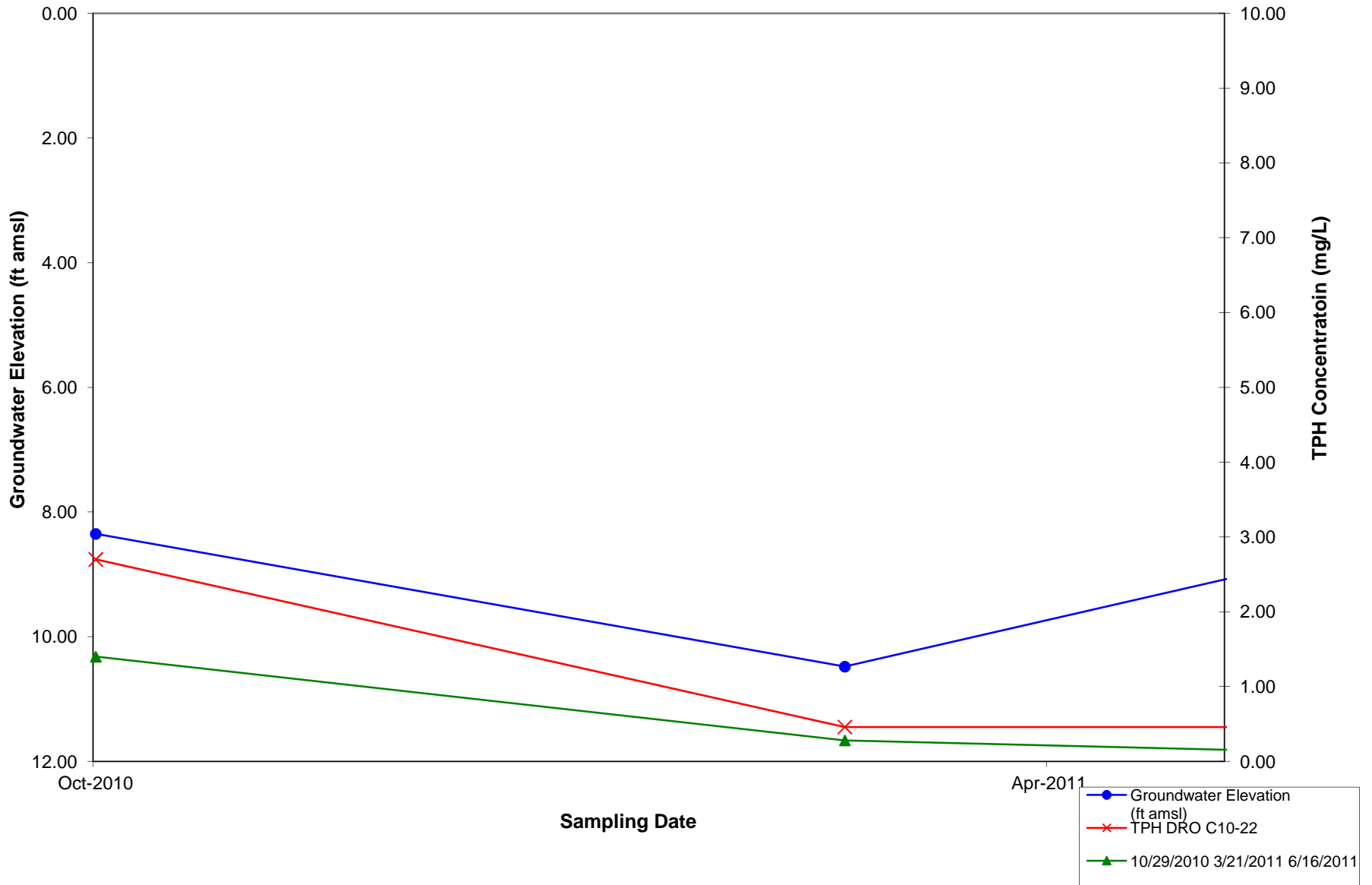


TPH DRO and Groundwater Elevation Trend in MW-3

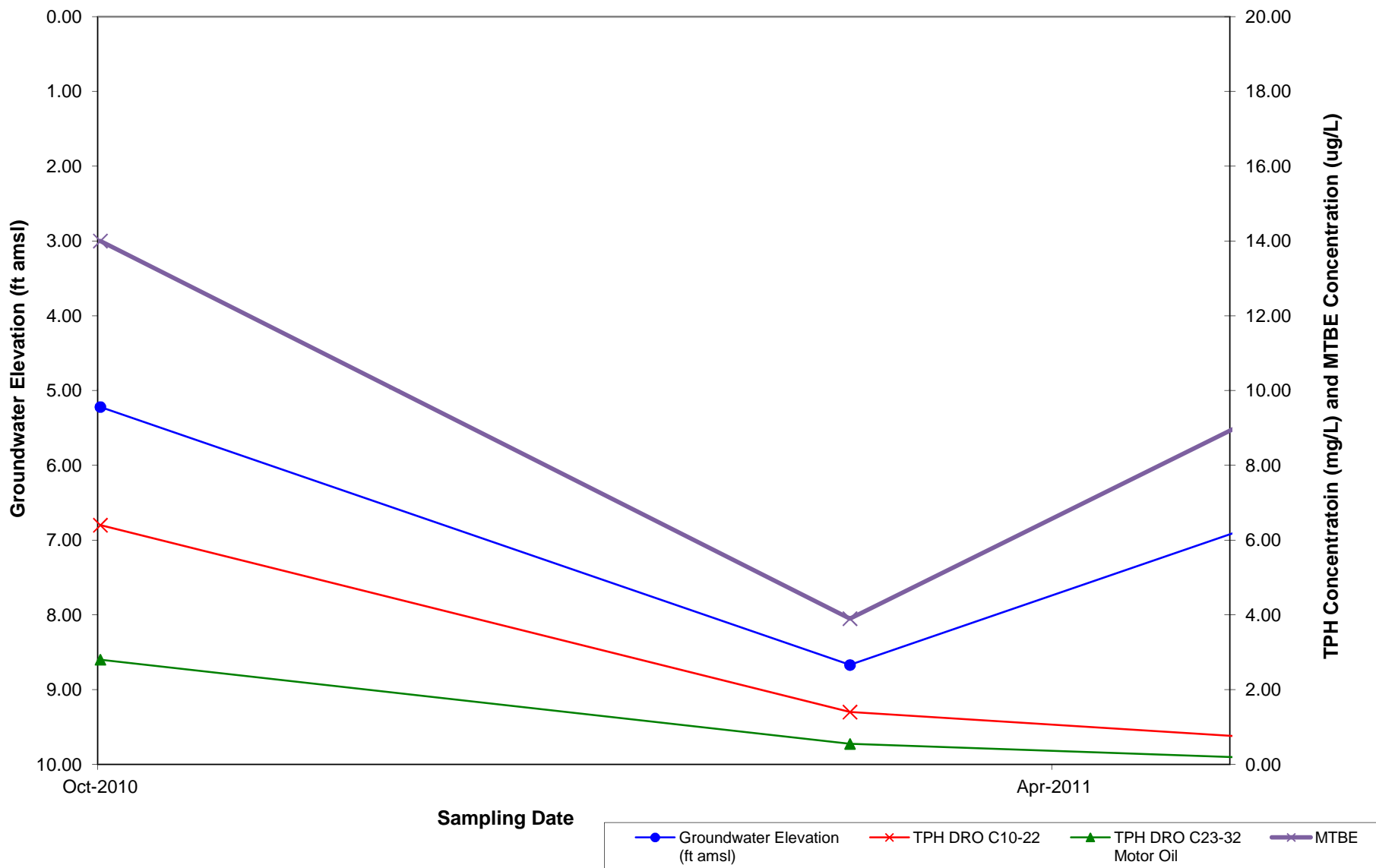




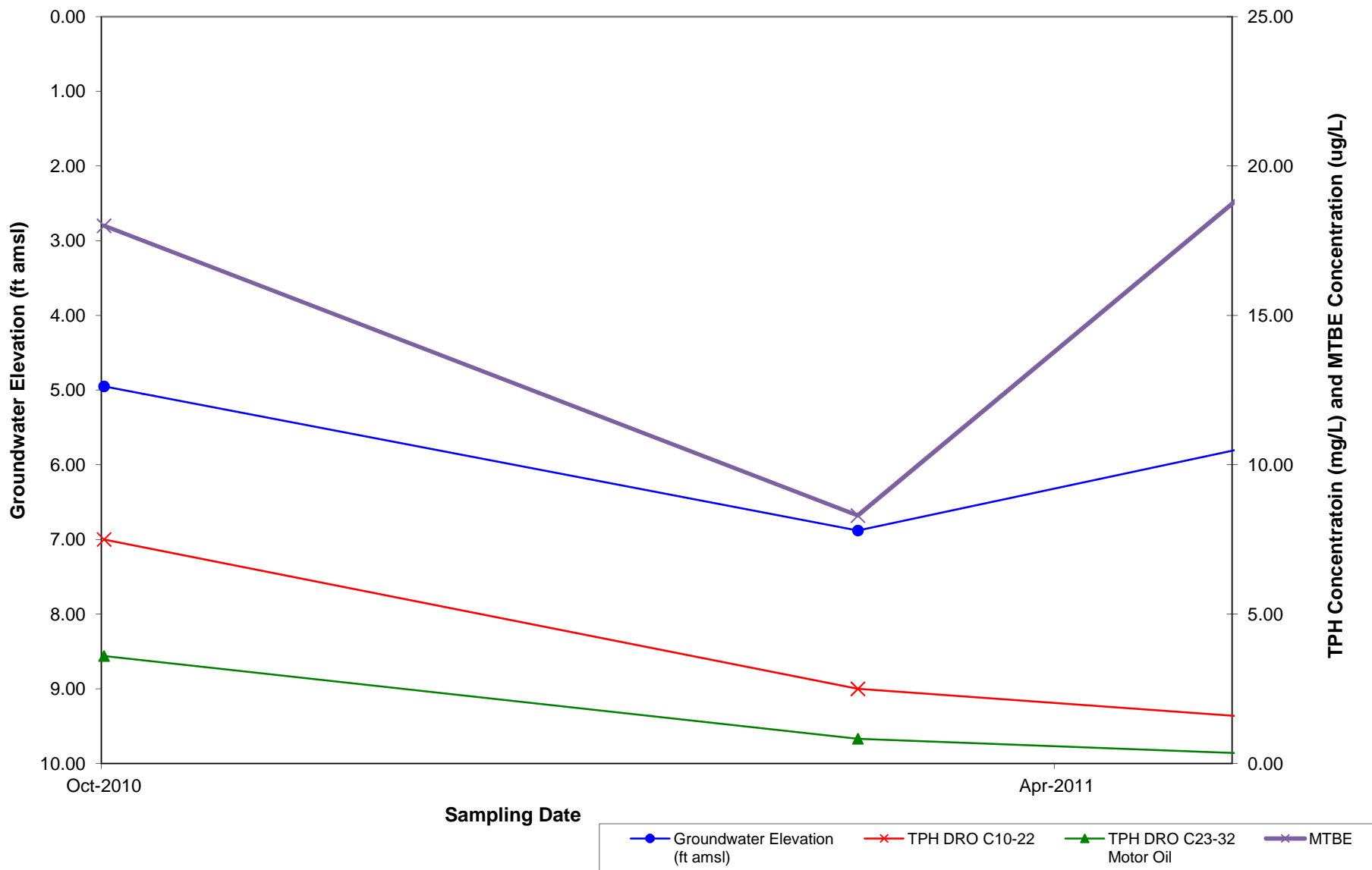
TPH DRO and Groundwater Elevation Trend in MW-4



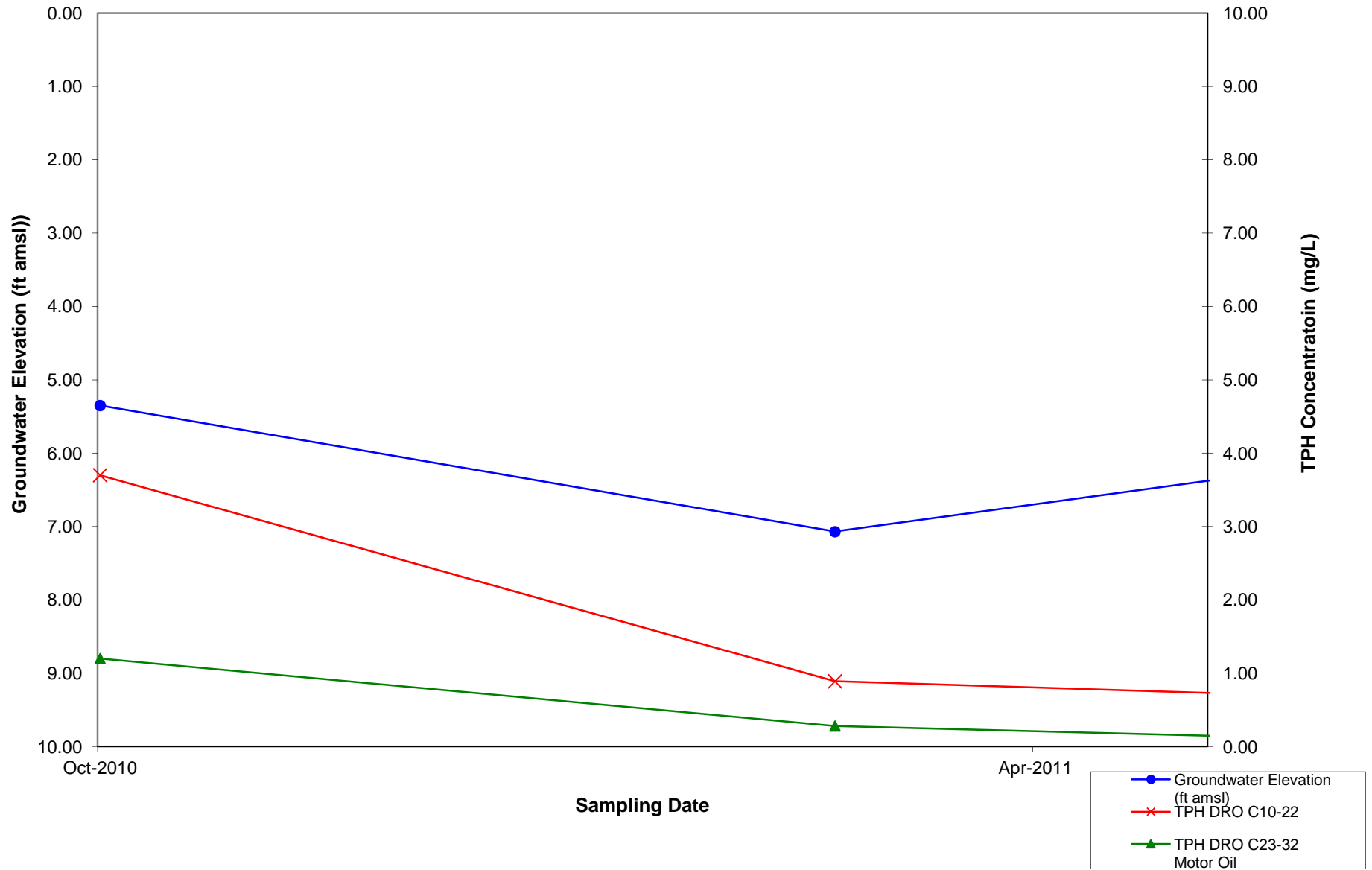
TPH DRO, MTBE, and Groundwater Elevation Trend in MW-5



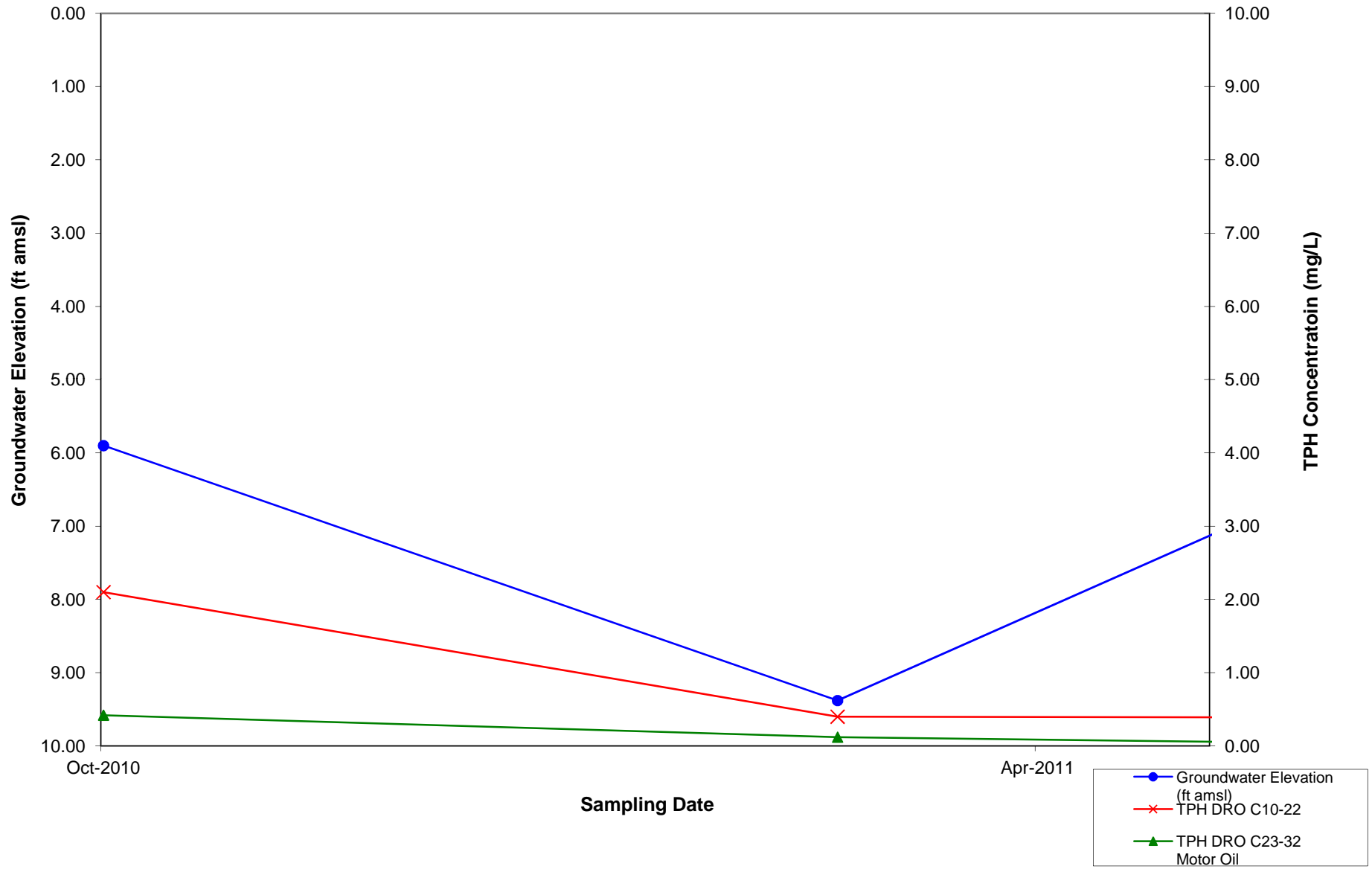
TPH DRO, MTBE, and Groundwater Elevation Trend in MW-6



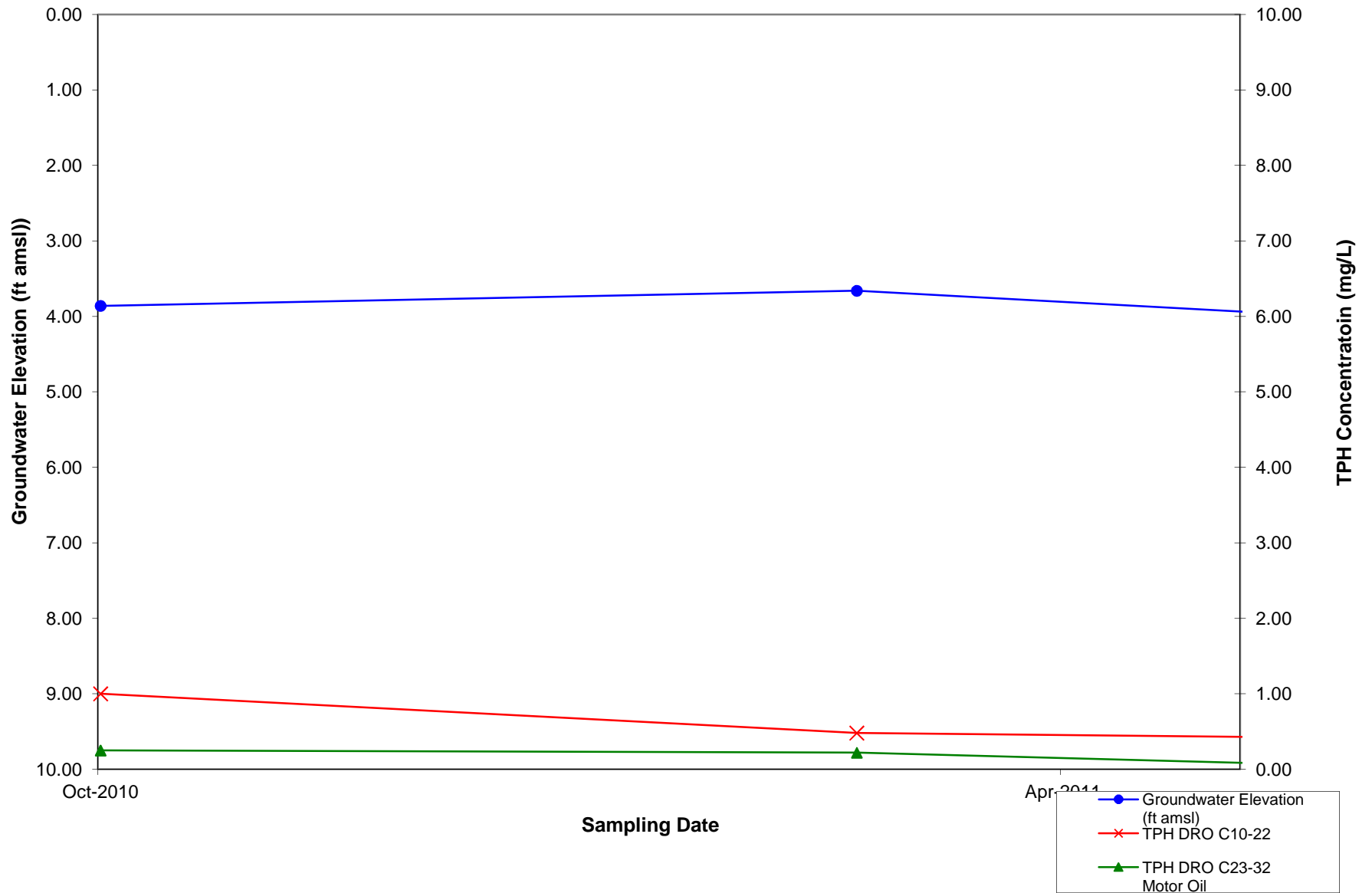
TPH DRO and Groundwater Elevation Trend in MW-7



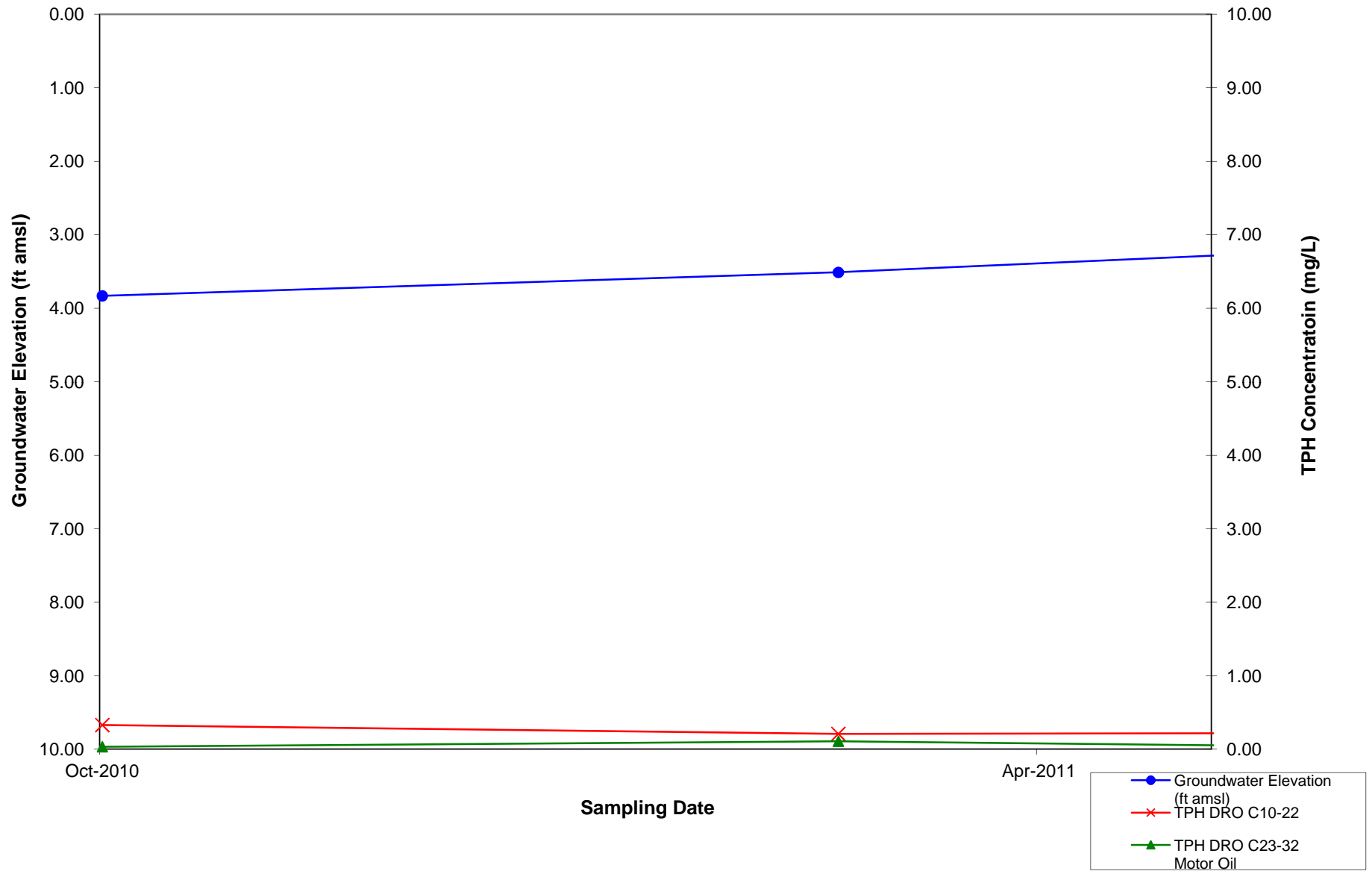
TPH DRO and Groundwater Elevation Trend in MW-8



TPH DRO and Groundwater Elevation Trend in MW-9



TPH DRO and Groundwater Elevation Trend in MW-10



TPH DRO and Groundwater Elevation Trend in MW-11

