

US EPA ARCHIVE DOCUMENT

FOURTH QUARTER 2014 MONITORING REPORT

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Prairie Ronde Realty Company Dowagiac, Michigan

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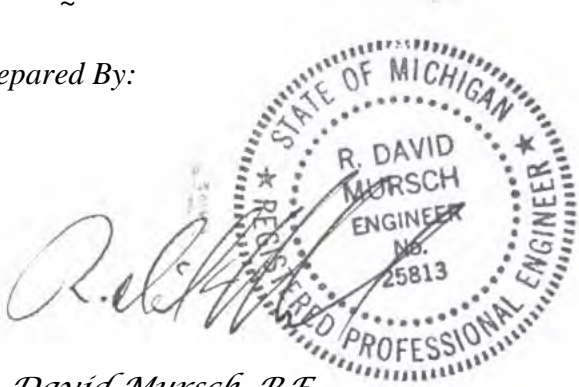
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January 8, 2015

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1.0 INTRODUCTION

An industrial property at 415 Prairie Ronde Street in Dowagiac, Michigan was acquired by Prairie Ronde Realty Company (PRR) from the Sundstrand Corporation (UTC/Sundstrand) in 1995. The property was formerly used for manufacturing operations such as casting and re-drawing copper tubes. The shallow soil and groundwater beneath this plant were impacted by volatile organic compounds (VOCs), primarily trichloroethene (TCE) and 1,1,1-trichloroethane (TCA) prior to acquisition of the property by PRR. The contamination was discovered in 1983, and the impacted soil and groundwater have been actively remediated since 1984.

The plant is underlain by glacial outwash deposits. In general, there is an upper layer of medium to fine sand grading to sandy gravel. This upper layer is typically 50 to 60 feet thick within the main plant area, and groundwater in this layer occurs under water table conditions. Underlying this upper layer is a variable but persistent aquitard layer consisting of inter-bedded clay, fine silty sand, clayey silt and clayey sand, which has sometimes been referred to as the “clay layer”. The aquitard is typically several feet thick but in some areas it is tens of feet thick. The soil below the aquitard consists of inter-bedded sand and gravel that together form a semi-confined aquifer, and there is an upward hydraulic gradient across the aquitard. There is VOC impact to the groundwater below the aquitard layer, but the area of impact is limited to the primary source area in the plant.

In 1984 a groundwater remediation system consisting of twelve purge wells was installed and put into operation under the terms of a Consent Judgment between UTC/Sundstrand (formerly Sundstrand Heat Transfer, Inc.) and the Michigan Department Environmental Quality (MDEQ). In 2004, MDEQ requested that the US Environmental Protection Agency (USEPA) assume the regulatory lead for this site and PRR subsequently entered into a voluntary Consent Agreement with EPA for completion of the site’s environmental assessment and remediation.

Beginning in 1994, the plant voluntarily installed air sparging and soil vapor extraction (SVE) systems to expedite the remediation. During the last quarter of 2008, these systems were determined to have accomplished their design objectives and were shut down after notice to the USEPA.

In 2008 PRR initiated a pilot test of enhanced reductive dechlorination technology, which involved injecting a solution of Anaerobic BioChem plus zero-valent iron (ABC+) into the groundwater at the Oil and Solvent Room (OSR) inside the plant. The pilot testing has shown that ABC+ is effective at degrading chlorinated solvents at this site. During the first quarter of 2014 PRR completed ABC+ injections at the Back Door Area (BDA) and Old Borrow Pit (OBP) locations in accordance with the second revision of the *Work Plan for ABC Injection – Oil Storage Room, Back Door Area, Old Borrow Pit and Former Cupples Pond* dated August 1, 2011 (ABC+ Work Plan).

During 2012, testing showed TCE levels in the PRR building’s indoor air that exceeded USEPA Regional Screening Levels (RSLs). PRR subsequently installed a sub-slab depressurization system (SSDPS) to reduce TCE levels in the sub-slab soil vapors and control migration of vapors into the building’s occupied indoor air space.

The 1984 Consent Judgment requires periodic monitoring of the site’s groundwater by sampling designated monitoring wells for analysis of VOCs. The monitoring program has been modified from time to time based on evolving site conditions and newly-installed sampling locations. The monitoring results for the fourth quarter of 2014 are presented in this report.

2.0 MONITORING SCOPE OF WORK AND PROCEDURES

The current monitoring program for the PRR site is outlined in the *Final Corrective Action Monitoring Plan* dated April 10, 2013 (the CAMP). The specific monitoring activities completed and reported for this quarter included:

- Sampling monitoring wells for VOC analysis.
- Sampling ten wells at the OSR, four wells at the BDA and three wells at the OBP for analyses of parameters related to ABC+ injections.
- Monitoring Sub-Slab Depressurization System (SSDPS) emissions and sub-slab vacuum.
- Sampling indoor air and sub-slab soil vapors at the PRR Building for VOC analysis.
- Documentation of purge well operation and maintenance.

The following sections describe the work procedures for this quarter's monitoring. Figure 1 shows a plan of the PRR site including the sampling locations.

2.1 Groundwater Sampling

Groundwater samples were obtained from fifty-one monitoring wells designated in the CAMP and ten monitoring wells at the OSR associated with an ABC+ injection. The monitoring wells include conventional 2-inch monitoring wells, 1-inch temporary wells related to the ABC+ injections at the OSR, and continuous multi-channel tubing (CMT) wells with sampling ports at multiple depths.

Prior to purging and sampling, the depth to water was measured at the monitoring wells. The measurements are listed in Table 1, along with the reference elevation at the top of each well and the calculated groundwater surface elevations. These data were used to plot the potentiometric map shown in Figure 2.

The monitoring wells were generally purged using low-flow methods as described in *Low Flow (Minimal Drawdown) Ground-Water Sampling Procedures*, by Puls and Barcelona, EPA Ground Water issue September 1996. Most of the wells were purged using a peristaltic pump and ¼-inch polyethylene tubing. The tubing was set to the approximate midpoint of the screen in each well. The wells were purged by pumping through the tubing at a low flow rate (less than 500 milliliters per minute) with continuous monitoring of water quality parameters, including pH, conductivity, turbidity, dissolved oxygen and temperature. The flow rate was adjusted as necessary to minimize drawdown of the water level in the well; this ensures that the pumped water is being drawn through the well screen and is not standing water from inside the well. When the monitored water quality parameters stabilized, a groundwater sample was collected directly from the dedicated pump discharge tubing.

The samples for VOC analysis were collected in 40-milliliter (ml) septum-lid vials with laboratory-added hydrochloric acid as a preservative, packed in coolers with ice and delivered to Trimatrix Laboratories, Inc. in Grand Rapids to be analyzed for VOCs using EPA Method 8260. The field sampling data forms, chain-of-custody forms and laboratory analytical reports are included in Acrobat (*.pdf) format on the enclosed compact disc (CD). The data are presented on Table 2.

The seventeen wells sampled for the ABC+ evaluation at the OSR, BDA and OBP were collected into laboratory-provided containers and sent to Trimatrix Laboratories for analysis of:

- VOCs by EPA Method 8260;
- Total organic carbon (TOC) by Method SM 5310;
- Total iron and arsenic by EPA Methods 6010 and 6020;

The field sampling data forms, chain-of-custody forms and laboratory analytical reports are included in *.pdf format on the enclosed compact disc (CD). The data for the BDA and OBP are presented in Table 3; the data for the OSR are presented in Tables 4 and 5.

The TCE, cis-1,2 dichloroethene and vinyl chloride data for monitoring wells in the upper aquifer are mapped on Figures 3, 4 and 5. Figures 6 and 7 show cross sections through the monitored area.

For quality assurance/quality control (QA/QC) purposes a duplicate sample was obtained for each day of sampling. In addition a laboratory-prepared trip blank accompanied each VOC sample set. The data for the trip blanks are included in the laboratory reports. The laboratory's internal QA/QC program includes analyses of laboratory-prepared matrix and surrogate spikes and replicates; these data are also included in the laboratory reports.

2.2 Evaluation of Purge Well PW-15

Purge well PW-15 was shut down in 2013 due to issues with organic material pumped from this well causing plugging of the groundwater air stripping tower. Due to rebound of TCE concentrations in nearby monitoring wells 06-17/1 and 06-17/2, PW-15 was evaluated during this quarter to determine if it could be returned to operation. The well was restarted in November at a reduced flow rate and was observed for visual indications of the organic material such as suspended particles and gray cloudy appearance. The well was also sampled for analysis of VOCs, TOC, iron and manganese using the methods described above. The sample was also analyzed for volatile fatty acids by Microseeps Inc. using AM21G. The VOC data are included in Table 2 and the rest of the data are listed below:

Iron – 470 µg/l
Manganese – 140 µg/l
TOC – 800 µg/l
Acetic Acid - <5,000 µg/l
Propionic Acid - <5,000 µg/l
Pyruvic Acid - <10,000 µg/l
Butyric Acid - <5,000 µg/l
Lactic Acid - <25,000 µg/l

The analytical reports are included on the appended data disc.

2.3 Sub-Slab Depressurization System Monitoring

The plant began operation of a SSDPS in the summer of 2012 and has been monitoring sub-slab vacuum and air emissions related to this system. The SSDPS is designed to eliminate the potential migration pathway for soil vapors to pass up through the floor slab into the building. The air discharge from the system is regulated by permit from the MDEQ Air Quality Division.

The air emissions from the SSDPS are monitored for compliance with the MDEQ air permit on a quarterly basis. The emissions are estimated by analyzing the concentrations of VOCs in the soil

vapor recovered through the system. These samples are obtained at a port in the 8-inch discharge pipe downstream from the SSDPS blower using a syringe. The syringe needle is inserted into the airstream in the discharge pipe and a 40-ml sample of air is extracted into the syringe. The 40-ml sample is then injected under pressure into a 20-ml septum vial. The sample is sent to Microseeps Inc. in Pittsburgh for analysis of chlorinated VOCs by Method AM 4.02. The Microseeps Inc. laboratory reports are included in Acrobat (*.pdf) format on the enclosed data CD. In conjunction with the air sample, the air flow rate is measured with a digital anemometer that is inserted into the airstream in the discharge pipe; the air flow rate and VOC concentrations are used to calculate the VOC emissions rate. The data for this quarter are shown on Table 6.

The monitoring program includes measuring the differential pressure between the indoor air of the plant and the sub-slab soil vapor using a digital manometer on a monthly basis, to verify that the system is maintaining a net vacuum beneath the slab. This vacuum prevents sub-slab vapors from migrating upward into the indoor air of the building. The data for this quarter are shown on Table 7.

2.4 Indoor Air and Sub-Slab Soil Vapor Monitoring

During this quarter indoor air and sub-slab soil vapors inside the PRR building were sampled. The samples were collected using 6-liter Summa canisters equipped with critical orifice flow regulators sized to collect the air sample over a 24-hour period. Each canister was pre-labeled by the laboratory with a canister designation number. The canister number and sample location were recorded on Canister Field Data Records (CFDRs). The canister vacuum was measured in the field at deployment using an integrated vacuum gauge, and recorded in the CFDRs. The flow regulator was installed on the canister, the canister was opened fully, and the start time and initial vacuum were recorded. The canister valve was closed at the end of the sampling period and the end time and final canister vacuum were recorded. The flow regulator was removed and a safety cap was placed on the canister inlet. The sub-slab soil vapor samples were collected using 6-Liter Summa canisters as described above, except that the canister inlets were connected to sub-slab vapor monitoring points (VMPs) via nylon tubing.

The samples were sent to PACE Analytical Services, Inc. in Minneapolis, Minnesota for analysis of chlorinated VOCs using Method TO-15. The chain of custody documentation and laboratory reports are included on the appended data CD. The data are summarized in Tables 8 and 9 and are plotted in Figure 8. A summary of historical indoor air and sub-slab vapor TCE data is shown in Table 10.

2.5 Operation and Maintenance Documentation

The purge well system is inspected and tested on a quarterly basis by Peerless Midwest Inc. The purge well operating data for this quarter are summarized in Table 11.

3.0 MONITORING RESULTS AND EVALUATION

The results of the monitoring for this quarter are summarized in the tables and figures in this report, and are discussed in the following sections.

3.1 Groundwater Monitoring Results

The potentiometric surface and VOC analytical data (Tables 1 and 2, Figures 2 through 7) demonstrate that the horizontal and vertical limits of VOC-impacted groundwater are stable or being reduced. In addition, time-trend graphs of the TCE concentrations versus time were plotted (Figures 9 through 15) and these graphs demonstrate that VOC concentrations are generally declining throughout the impacted area.

Figure 3 shows a map of the TCE data. Three GSI compliance monitoring wells, 02-02, 98-224B and 98-245A, had TCE concentrations above the Part 201 generic GSI criteria (260 to 300 µg/l detected compared to the GSI criterion of 200 µg/l for TCE). No other VOCs were detected above the respective GSI criteria in any of the GSI compliance monitoring wells.

The VOC concentrations in 98-245A are generally trending down and have fluctuated in the range of 110 to 320 µg/l in the past two years. This GSI compliance monitoring point is associated with purge well PW-5 and that purge well will continue to operate until the shutdown criteria are met.

Well 02-02 is a GSI compliance monitoring point for purge well PW-10, which was turned off last year in accordance with the *Revised Purge Well Shutdown Criteria* dated February 6, 2012. The TCE concentrations had been below the GSI criterion for several years. However the TCE concentration in this well has since rebounded to above the GSI criterion in the last two sampling events, and therefore purge well PW-10 has been placed back into operation as required by the purge well shutdown criteria. PW-10 will remain in operation until monitoring well 02-02 again meets the shutdown criteria.

GSI monitoring wells associated with purge well PW-16, including 98-224B, 13-224A, 02-03 and 02-04 well 98-224B, had VOC concentrations below the GSI criteria for four consecutive quarterly sampling events prior to the second quarter of this year and therefore PW-16 was shut down in accordance with the document referenced above. However the TCE concentrations at GSI well 98-224B since have rebounded and have been above the GSI for two consecutive quarters; therefore purge well PW-16 has also been placed back into operation.

Purge well PW-15 was shut down in the summer of 2013 due to organic material (related to ABC+ injections at the OSR) causing blockage in the groundwater air stripper. Since the purge well was shut down, the nearby GSI monitoring points 06-17/1 and 06-17/2 have shown a rebound in TCE levels and 06-17/2 now has TCE above the GSI criterion. Purge well PW-15 was restarted in November 2014 with a reduced flow rate and was evaluated for indications of continued organic material issues. The evaluation included observing the water flow for gray color and suspended organic material plus analysis of the pumped water for VOCs, volatile fatty acids, TOC, iron and manganese. Based on the observations and analytical results (summarized in Section 2.2), it appears the organic material has degraded and PW-15 was returned to full operation in December of 2014.

3.2 ABC+ Injections at OBP and BDA

During this quarter PRR performed monitoring related to an injection of ABC+ at the BDA and the OBP. The seven ABC+ area monitoring wells in these two locations were sampled as outlined in the ABC+ Work Plan and the data are shown in Table 3. This table also includes monitoring data obtained in the first, second and third quarter of 2014 that were previously reported.

At the OBP the data do not show an impact from the ABC injection and a supplemental injection at this location is currently under consideration.

At the BDA significant impacts are seen in both the shallow and deep parts of the ABC+ injection area at the BDA. The two shallow wells within the injection zone, 98-220A and 98-226A, both show a decline in TCE to historical low ranges and there are significant levels of cis-1,2 dichloroethene at these locations. Both wells had some slight indication of DHC growth in the second quarter sampling event. However, in both wells the TOC is being depleted and a supplemental injection of substrate might eventually be necessary at this location.

In the deeper zone at the BDA, well 98-225A has a significantly reduced TCE concentration and increased cis-1,2 dichloroethene compared to historical ranges; suppressed nitrate; slightly suppressed sulfate; and some DHC growth as indicated by the second quarter samples. The TOC is being depleted at this well also.

3.3 ABC+ Injection at OSR

PRR continues to monitor the OSR area for ongoing evaluation of the ABC+ injections. The data for this quarter are presented in Table 4. Table 5 summarizes the ABC+ monitoring data obtained since the last OSR injection in January 2013.

These data generally show that the wells in and down-gradient of the injection area have significant presence of DHC colonies and all have indications that vinyl chloride is being degraded (i.e. formation of ethene with concurrent decreases in vinyl chloride). TCE levels have dramatically decreased and in most wells the cis-1,2 dichloroethene and vinyl chloride also are declining. Also the manganese and arsenic levels have stabilized or are decreasing, the nitrate and sulfate are depressed, dissolved oxygen is low, the pH range is acceptable and TOC remains at an adequate level to support biodegradation. The TCE concentrations remain much lower than the original levels at the OSR before the start of ABC+ treatment.

At IW-1, the latest data set shows an increase in vinyl chloride to 59,000 µg/l, which was accompanied by a further decrease in TCE and cis-1,2 dichloroethene. There was also an increase in ethene and there was a very large DHC count in the last bacterial analysis for this well. These data indicate that the vinyl chloride is being formed through degradation of TCE and it is then being degraded by DHC bacteria to ethene.

At TW-1 there was a reduction in TCE and 1,1,1-trichloroethane, both of which had rebounded slightly in the last sample event. There continues to be a relatively high level of degradation products; cis-1,2 dichloroethene, vinyl chloride, and ethene for the TCE, and 1,1-dichloroethane, 1,1-dichloroethene, and ethane for the 1,1,1-trichloroethane.

At the down-gradient locations TW-2, TW-3, TW-4, 06-18/1 and 06-18/2, the data show stable or declining concentrations of TCE and degradation products. Specifically, at these down-gradient monitoring points there is no indication that the cis-1,2-dichloroethene and vinyl chloride being generated at IW-1 and TW-1 are migrating outside of the OSR at significant levels.

Based on these data it appears that the ABC+ is causing additional solvent to come into the dissolved phase at the OSR source locations TW-1 and IW-1, and it is being degraded as it does so. This is exactly the process that the injections were intended to develop here; that is as solvent (residing in occluded free-phase form) moves into the dissolved phase, it is degraded before it can move out of the source area.

3.4 Sub-Slab Depressurization System Monitoring Results

The SSDPS monitoring included measuring vacuums beneath the PRR building slab and analyzing the air emissions from the system's blower.

During this quarter the air emissions from the SSDPS were measured as summarized on Table 6. The data showed a TCE concentration of 3.5 milligrams per cubic meter (mg/m^3) and an air flow rate (corrected to standard temperature) of 437 cubic feet per minute (cfm). The total VOC emissions rate was calculated from these data as 0.008 pounds per hour (pph), which is well below the limits allowed in the air permit for this system. In accordance with the air permit, PRR will continue to measure air emissions on a quarterly basis.

The vacuum measurements obtained in this quarter are shown on Table 7 and demonstrate that the SSDPS is maintaining a net vacuum beneath the slab, which should control migration of vapors from the soil into the PRR building through the slab.

3.5 Indoor Air and Sub-Slab Soil Vapor Monitoring Results

The indoor air and sub-slab soil vapor analytical data for this quarter are summarized on Tables 8 and 9 respectively, and the data are plotted in Figure 8. For reference the tables include USEPA's Regional Screening Levels (RSL) for indoor air and sub-slab soil vapors at industrial sites. In addition, Table 10 shows a summary of historical TCE data for indoor air and sub-slab soil vapor.

During this quarter none of the indoor air monitoring points had any compound above the respective RSL. As shown on Table 10, only one indoor air sample has exceeded the indoor air RSL in any of the last six sampling events (i.e. since August of 2013).

The sub-slab soil vapor TCE levels (Table 9) were above the RSL at two locations; Velthouse Antiques/VMP-13, and Quality Trucking/VMP-16. The indoor air readings at all of these locations were below the indoor air RSLs and the data are consistent with historical patterns, showing a continued long-term declining trend.

PRR has been aggressively improving the indoor air positive ventilation in the building, and these efforts have been effective in maintaining the indoor air VOC concentrations below screening levels. PRR intends to continue these efforts and also will continue to identify and seal floor cracks.

3.6 Operation and Maintenance

The purge well operational data are summarized on Table 11. There were no significant maintenance issues for the purge well and air stripper systems during this quarter.

4.0 CONCLUSIONS

This report presents the results of the regular quarterly monitoring at the PRR site for the fourth quarter of 2014. The data demonstrate that VOC concentrations in the groundwater are below the GSI at all but four of the GSI compliance monitoring wells, the horizontal and vertical extent of impact is stable or being reduced, and the concentrations of VOCs in groundwater continue to decline.

Based on the monitoring results at the GSI compliance monitoring wells, purge wells PW-15 and PW-16 were returned to operation. Purge wells PW-5 and PW-10 also continue to be in operation.

PRR completed an additional injection of ABC+ material at the OSR during January of 2013 and the data from this quarter continue to demonstrate that the injection successfully suppressed sulfate levels, increased the organic substrate and increased the presence of vinyl chloride-reducing bacteria.

PRR also completed ABC+ injections at two other areas of the plant, the BDA and OBP, during January 2014 and the data show some indications that the injections have had a significant impact at the BDA, with declining TCE and appearance of degradation products and DHC, and development of reducing conditions. However the TOC is being depleted and a supplemental injection of ABC+ material may be required at this location to sustain biodegrading conditions. At the OBP there appears to have been little or no impact from the ABC+ injection to date; additional substrate injection may be necessary at this location also.

The SSDPS monitoring continues to demonstrate that the system is operating successfully and is meeting the goals for the system. The SSDPS system is reducing VOC concentrations in the sub-slab soil vapor and is maintaining a net vacuum beneath the building's floor slab. Monitoring of the indoor air and sub-slab soil vapors demonstrate that the TCE levels in the building's indoor air are below the relevant USEPA RSL. PRR continues to implement contingency measures, including improved ventilation and caulking of floor cracks and openings, in the building.

TABLE 1: GROUNDWATER LEVEL MEASUREMENTS - NOVEMBER, 2014

| LOCATION | REFERENCE ELEVATION, FEET | ORIGINAL RECORDED WELL DEPTH, FEET | CHECK DEPTH, FEET | DEPTH TO WATER, FEET | GROUND WATER ELEVATION, FEET |
|-----------|---------------------------|------------------------------------|-------------------|----------------------|------------------------------|
| 83-17A | 743.36 | 17 | 17.0 | 9.26 | 734.10 |
| 83-17B | 743.95 | 43 | 42.0 | 9.77 | 734.18 |
| 83-19A | 743.88 | 17 | 16.0 | 6.63 | 737.25 |
| 83-19B | 743.80 | 41 | 40.0 | 6.58 | 737.22 |
| 83-21A | 741.51 | 22 | 22.0 | 8.30 | 733.21 |
| 83-21B | 741.88 | 47 | 47.0 | 8.70 | 733.18 |
| 83-23A | 742.80 | 17 | 17.0 | 8.49 | 734.31 |
| 83-23B | 743.21 | 40 | 40.0 | 8.63 | 734.58 |
| 83-24A | 752.02 | 17 | 16.0 | 6.06 | 745.96 |
| 83-24B | 752.43 | 40 | 39.0 | 6.61 | 745.82 |
| 83-28A | 737.42 | 21 | 21.0 | 3.70 | 733.72 |
| 83-28B | 737.47 | 57 | 56.0 | 3.63 | 733.84 |
| 96-201B | 769.95 | 50 | 49.8 | 22.44 | 747.51 |
| 98-201C | 770.35 | 85 | 85.4 | 22.72 | 747.63 |
| 96-202B | 772.47 | 63 | 63.2 | 25.32 | 747.15 |
| 96-203A | 757.72 | 26 | 26.3 | 14.42 | 743.30 |
| 97-212B | 738.68 | 53 | 53.0 | 6.77 | 731.91 |
| 97-213B | 742.15 | 43 | 42.0 | 10.32 | 731.83 |
| 97-214B | 769.56 | 40 | 40.2 | 21.77 | 747.79 |
| 98-215A | 770.27 | 30 | 30.0 | 22.55 | 747.72 |
| 98-215C | 770.16 | 80 | -- | 22.41 | 747.75 |
| 00-216A | 769.53 | 35 | 34.9 | 24.87 | 744.66 |
| 98-217C | 767.87 | 65 | -- | 20.99 | 746.88 |
| 98-218B | 771.24 | 45 | 45.0 | 28.79 | 742.45 |
| 98-220A | 765.45 | 30 | 30.2 | 17.98 | 747.47 |
| 98-223A | 742.22 | 23 | 22.6 | 8.09 | 734.13 |
| 98-223B | 742.33 | 48 | 47.9 | 7.98 | 734.35 |
| 13-224A | -- | 24 | 23.6 | 15.98 | -- |
| 98-224B | 749.64 | 42 | 41.6 | 15.25 | 734.39 |
| 98-225B | 765.70 | 54 | 54.1 | 18.17 | 747.53 |
| 98-226A | 765.53 | 30 | 29.3 | 17.97 | 747.56 |
| 98-244A | 740.77 | 33 | 32.2 | 8.99 | 731.78 |
| 98-245A | 739.85 | 33 | 32.2 | 6.95 | 732.90 |
| 02-01 | 759.62 | 119 | -- | 13.16 | 746.46 |
| 02-02 | 759.83 | 32 | 32.1 | 15.90 | 743.93 |
| 02-03 | 757.90 | 64 | 64.0 | 23.38 | 734.52 |
| 02-04 | 758.46 | 42 | 42.0 | 23.94 | 734.52 |
| 05-14 | 771.15 | 30 | 30.1 | 24.61 | 746.54 |
| 05-15 | 766.20 | 25 | 25.0 | 19.34 | 746.86 |
| 05-16 | 758.08 | 29 | 28.9 | 21.85 | 736.23 |
| 06-21 / 1 | 741.54 | 15 | -- | 9.75 | 731.79 |
| SG-1 | 757.45 | -- | -- | 2.6 | 754.85 |
| SG-2 | 749.92 | -- | -- | 2.7 | 747.22 |
| SG-3 | 739.61 | -- | -- | 3.3 | 736.31 |
| SG-4 | 733.67 | -- | -- | 4.1 | 729.57 |
| SG-6 | 734.71 | -- | -- | 2.1 | 732.61 |
| SG-8 | 727.44 | -- | -- | 0.5 | 726.94 |
| SG-9 | 735.82 | -- | -- | Dry | -- |

NOTES:

-- = Not measured or not available.

TABLE 2: SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER - NOVEMBER 2014 (Page 1 of 4)

| WELL | DEPTH, FEET | TRICHLORO ETHENE | 1,1,1- TRICHLOROETHANE | CIS-1,2 DICHLOROETHENE | TRANS-1,2- DICHLOROETHENE | VINYL CHLORIDE | 11- DICHLOROETHENE | 11- DICHLOROETHANE |
|--|----------------|---------------------|---------------------------|---------------------------|------------------------------|-------------------|-----------------------|-----------------------|
| Part 201 GSI Criterion | | 200 | 89 | 620 | 1,500 | 13 | 130 | 740 |
| GSI COMPLIANCE MONITORING WELLS | | | | | | | | |
| 83-17A | 17 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 83-17B | 42 | 58 | < 1 | 45 | 2.1 | 1.8 | < 1 | < 1 |
| 83-17B (D) | -- | 56 | < 1 | 45 | 2.1 | 2.0 | < 1 | < 1 |
| 83-19A | 15 | 6.8 | < 1 | 1.0 | < 1 | < 1 | < 1 | < 1 |
| 83-19B | 41 | 140 | < 1 | 44 | 2.0 | 12 | < 1 | < 1 |
| 83-21A | 21 | 1.2 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 83-21B | 47 | 47 | < 1 | 15 | 3.5 | < 1 | < 1 | < 1 |
| 83-28A | 20 | 1.1 | < 1 | 130 | 15 | < 1 | < 1 | < 1 |
| 83-28B | 53 | 6.4 | < 1 | 28 | < 1 | 3.3 | < 1 | < 1 |
| 13-224A | 24 | 5.0 | < 1 | 1.9 | < 1 | < 1 | < 1 | < 1 |
| 98-224B | 42 | 300 | < 2 | 14 | < 2 | < 2 | < 2 | < 2 |
| 98-245A | 33 | 290 | < 2.5 | 15 | 2.9 | < 2.5 | < 2.5 | < 2.5 |
| 02-02 | 32 | 260 | 5.9 | 21 | < 2 | 40 | < 2 | 2.6 |
| 02-02 (D) | -- | 270 | 6.2 | 22 | < 2.5 | 41 | < 2.5 | 2.8 |
| 02-03 | 64 | 1.5 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 02-04 | 42 | 140 | < 1 | 27 | 5.0 | < 1 | < 1 | < 1 |
| 05-15 | 25 | 4.1 | < 1 | 2.3 | < 1 | < 1 | < 1 | < 1 |
| 05-16 | 29 | 9.5 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 06-17 / 1 | 30 | 130 | 4.8 | 8.0 | < 1 | 9.0 | < 1 | < 1 |
| 06-17 / 2 | 50 | 210 | 18 | 34 | < 2.5 | 9.6 | < 2.5 | < 2.5 |
| 06-20 / 1 | 15 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 06-20 / 2 | 30 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |

See Notes, Page 4

TABLE 2: SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER - NOVEMBER 2014 (Page 2 of 4)

| WELL | DEPTH, FEET | TRICHLORO ETHENE | 1,1,1- TRICHLOROETHANE | CIS-1,2 DICHLOROETHENE | TRANS-1,2- DICHLOROETHENE | VINYL CHLORIDE | 11- DICHLOROETHENE | 11- DICHLOROETHANE |
|-----------------------------|----------------|---------------------|---------------------------|---------------------------|------------------------------|-------------------|-----------------------|-----------------------|
| Part 201 GSI Criterion | | 200 | 89 | 620 | 1,500 | 13 | 130 | 740 |
| MNA MONITORING WELLS | | | | | | | | |
| 83-23A | 17 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 83-23B | 40 | 430 | 9.7 | 27 | < 5 | < 5 | < 5 | 7.7 |
| 83-24A | 16 | 35 | < 1 | 5.9 | < 1 | < 1 | < 1 | < 1 |
| 83-24B | 39 | 3.6 | < 1 | 24 | < 1 | < 1 | < 1 | < 1 |
| 96-202B | 63 | 4.1 | < 1 | 120 | < 1 | 5.3 | 3.7 | < 1 |
| 97-212B | 53 | 120 | < 1 | 98 | 4.7 | 1.1 | 1.2 | < 1 |
| 97-213B | 43 | 15 | < 2.5 | 340 | 39 | 18 | < 2.5 | < 2.5 |
| 00-216A | 35 | 42 | < 1 | 9.7 | 2.1 | < 1 | < 1 | < 1 |
| 98-218B | 45 | 49 | < 1 | 41 | 8.4 | < 1 | < 1 | < 1 |
| 98-244A | 33 | < 2.5 | < 3 | 260 | 18 | < 3 | < 3 | < 3 |
| 05-14 | 30 | 160 | 2.0 | 99 | < 1 | 7.7 | < 1 | < 1 |
| 06-19 / 1 | 25 | 1.0 | < 1 | 1.8 | < 1 | < 1 | < 1 | < 1 |
| 06-19 / 2 | 40 | 100 | < 1 | 12 | < 1 | < 1 | < 1 | < 1 |
| 06-19 / 3 | 55 | 100 | < 1 | 65 | 4.2 | 2.0 | < 1 | < 1 |
| 06-20 / 3 | 45 | 120 | < 1 | 38 | 1.3 | < 1 | < 1 | < 1 |
| 06-20 / 4 | 60 | < 1 | < 1 | 130 | < 1 | 17 | < 1 | < 1 |
| 06-21 / 1 | 15 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 06-21 / 2 | 30 | 1.6 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 06-21 / 3 | 45 | 6.5 | < 1 | 6.1 | < 1 | < 1 | < 1 | < 1 |
| 06-21/3 (D) | -- | 6.6 | < 1 | 6.4 | < 1 | < 1 | < 1 | < 1 |
| 06-21 / 4 | 60 | < 1 | < 1 | 150 | 5.7 | 1.8 | < 1 | < 1 |
| IW-11 | 50 | 210 | < 2.5 | 500 | 14 | 7.2 | < 2.5 | < 2.5 |
| IW-14 | 45 | 15 | 7.2 | 460 | < 5 | 96 | 6.4 | 12 |
| IW-18 | 50 | 3.6 | < 2.5 | 270 | 17 | < 2.5 | < 2.5 | < 2.5 |
| IW-21 | 69 | 280 | < 5 | 450 | 37 | < 5 | < 5 | < 5 |
| IW-24 | 58 | 590 | < 5 | 330 | 8.4 | 5.1 | < 5 | < 5 |

See Notes, Page 4

TABLE 2: SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER - NOVEMBER 2014 (Page 3 of 4)

| WELL | DEPTH, FEET | TRICHLORO ETHENE | 1,1,1- TRICHLOROETHANE | CIS-1,2 DICHLOROETHENE | TRANS-1,2- DICHLOROETHENE | VINYL CHLORIDE | 11- DICHLOROETHENE | 11- DICHLOROETHANE |
|--|----------------|---------------------|---------------------------|---------------------------|------------------------------|-------------------|-----------------------|-----------------------|
| Part 201 GSI Criterion | | 200 | 89 | 620 | 1,500 | 13 | 130 | 740 |
| OLD BORROW PIT ABC+ INJECTION AREA MONITORING WELLS | | | | | | | | |
| 96-203A* | 26 | 590 | < 5 | 30 | < 5 | < 5 | < 5 | < 5 |
| 98-223A* | 23 | 75 | < 1 | 33 | < 1 | < 1 | < 1 | < 1 |
| 98-223B* | 48 | 180 | < 2 | 66 | 2.2 | < 2 | < 2 | < 2 |
| BACKDOOR AREA ABC+ INJECTION AREA MONITORING WELLS | | | | | | | | |
| 98-220A* | 30 | 14 | < 2 | 210 | < 2 | < 2 | < 2 | < 2 |
| 98-225B* | 54 | 63 | < 5 | 2,400 | 25 | 8.5 | < 5 | < 5 |
| 98-226A* | 30 | 46 | < 10 | 930 | < 10 | < 10 | < 10 | < 10 |
| IW-9* | 60 | 180 | < 2 | 3.1 | < 2 | < 2 | < 2 | < 2 |
| OIL STORAGE ROOM ABC+ INJECTION AREA MONITORING WELLS | | | | | | | | |
| 96-201B* | 50 | 5.2 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 97-214B* | 40 | < 1 | < 1 | 1.4 | < 1 | 13 | < 1 | < 1 |
| 98-215A* | 30 | 19 | < 1 | 5.0 | < 1 | < 1 | < 1 | < 1 |
| TW-1* | 30 | 1,600 | 3,500 | 150,000 | 780 | 740 | 580 | 770 |
| TW-2* | 30 | < 5 | 6.8 | 33 | < 5 | 580 | < 5 | 37 |
| TW-3* | 30 | 30 | 21 | 180 | < 2 | 130 | < 2 | 33 |
| TW-4* | 50 | < 1 | < 1 | < 1 | < 1 | 12 | < 1 | < 1 |
| IW-1* | 54 | < 50 | 180 | 22,000 | 94 | 59,000 | 85 | 1,300 |
| 06-18 / 1* | 30 | 8.8 | 18 | 9.8 | < 1 | 54 | < 1 | 150 |
| 06-18 / 2* | 50 | 230 | 5.0 | 33 | < 2.5 | < 2.5 | < 2.5 | < 2.5 |

See Notes, Page 4

TABLE 2: SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER - NOVEMBER 2014 (Page 4 of 4)

| WELL | DEPTH, FEET | TRICHLORO ETHENE | 1,1,1- TRICHLOROETHANE | CIS-1,2 DICHLOROETHENE | TRANS-1,2- DICHLOROETHENE | VINYL CHLORIDE | 11- DICHLOROETHENE | 11- DICHLOROETHANE |
|--|----------------|---------------------|---------------------------|---------------------------|------------------------------|-------------------|-----------------------|-----------------------|
| Part 201 GSI Criterion | | 200 | 89 | 620 | 1,500 | 13 | 130 | 740 |
| MONITORING WELLS SCREENED BELOW THE AQUITARD ZONE | | | | | | | | |
| 98-201C | 85 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 98-215C | 80 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 98-217C | 70 | 3.3 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 02-01 | 119 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 06-17 / 3 | 65 | 25 | < 1 | 15 | < 1 | < 1 | < 1 | < 1 |
| 06-17 / 4 | 80 | 37 | < 1 | 12 | < 1 | < 1 | < 1 | < 1 |
| 06-17 / 7 | 110 | 3.8 | < 1 | 16 | < 1 | < 1 | < 1 | < 1 |
| 06-18 / 3 | 65 | 65 | 1.6 | 22 | < 1 | 2.0 | < 1 | < 1 |
| 06-18 / 4 | 80 | 61 | 1.3 | 20 | < 1 | 2.2 | < 1 | < 1 |
| 06-18 / 7 | 110 | 74 | 2.0 | 44 | < 1 | 3.1 | < 1 | < 1 |
| 06-19 / 7 | 120 | 75 | < 1 | 17 | < 1 | < 1 | < 1 | < 1 |
| 06-20 / 6 | 120 | < 1 | < 1 | 1.0 | < 1 | < 1 | < 1 | < 1 |
| 06-21 / 5 | 80 | 18 | < 2.5 | 190 | 22 | < 2.5 | < 2.5 | < 2.5 |

NOTES:

All samples were analyzed by EPA Method 8260; results are micrograms per liter

Samples were obtained using low flow procedures

< = Less than

Bold = Exceeds GSI criterion

(D) = Duplicate sample

* = Sampled for ABC+ pilot test parameters; see Tables 3, 4 and 5

TABLE 3: ABC+ DATA AT BACK DOOR AREA AND OLD BORROW PIT (Page 1 of 2)

| LOCATION | BACKDOOR AREA | | | | | | | | | | | | | | | |
|----------------------------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 98-220A | | | | 98-225B | | | | 98-226A | | | | IW-9 | | | |
| | 1/22/14 | 3/19/14 | 5/13/14 | 11/1/14 | 1/22/14 | 3/19/14 | 5/13/14 | 11/1/14 | 1/22/14 | 3/19/14 | 5/13/14 | 11/1/14 | 1/22/14 | 3/19/14 | 5/13/14 | 11/1/14 |
| Ethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethylene | <1 | <1 | <1 | <1 | 1.6 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Methane | 0.85 | 6.5 | 7.2 | 0.8 | 9.4 | 110 | 290 | 1,000 | <0.5 | <0.5 | <0.5 | 1.1 | 1.0 | 4.7 | 2.3 | 1.2 |
| Trichloroethene | 420 | 250 | 140 | 14 | 210 | 78 | 65 | 63 | 580 | 380 | 310 | 46 | 180 | 160 | 160 | 180 |
| cis-1,2 Dichloroethene | <5 | 33 | 34 | 210 | 2,400 | 1,900 | 2,000 | 2,400 | <5 | 61 | 29 | 930 | 2.7 | <2 | <2 | 3.1 |
| trans-1,2 Dichloroethene | <5 | <2 | <1 | <2 | 53 | 19 | 27 | 25 | <5 | <5 | <2 | <10 | <1 | <2 | <2 | <2 |
| Vinyl Chloride | <5 | <2 | <1 | <2 | <2.5 | 4.4 | 5.2 | 8.5 | <5 | <5 | <2 | <10 | <1 | <2 | <2 | <2 |
| 1,1,1-Trichloroethane | <5 | <2 | <1 | <2 | <2.5 | <2.5 | <2.5 | <5 | <5 | <5 | <2 | <10 | 2.0 | <2 | <2 | <2 |
| 1,1-Dichloroethene | <5 | <2 | <1 | <2 | 6.2 | 2.7 | 2.8 | <5 | <5 | <5 | <2 | <10 | <1 | <2 | <2 | <2 |
| 1,1-Dichloroethane | <5 | <2 | <1 | <2 | <2.5 | <2.5 | <2.5 | <5 | <5 | <5 | <2 | <10 | <1 | <2 | <2 | <2 |
| Iron | 5,600 | 7,500 | 2,300 | 2,300 | 5,600 | 3,700 | 2,500 | 3,100 | 960 | 1,200 | 510 | 4,000 | 41 | 250 | <10 | 22 |
| Manganese | -- | 2,000 | 820 | 610 | -- | 690 | 450 | 340 | -- | 340 | 160 | 700 | -- | 190 | 140 | 150 |
| Arsenic | 5.1 | -- | 7.1 | 5.3 | 3.2 | -- | 2.7 | 2.2 | 4.5 | -- | 2.4 | 8.1 | <1 | -- | <1 | <1 |
| Nitrate | 1,400 | 340 | 160 | -- | <50 | <50 | 60 | -- | 200 | 420 | 700 | -- | 660 | 300 | 91 | -- |
| Sulfate | 11,000 | 7,600 | 17,000 | -- | 14,000 | 18,000 | 17,000 | -- | 8,500 | 22,000 | 20,000 | -- | 19,000 | 22,000 | 21,000 | -- |
| Total Organic Carbon | 190,000 | 79,000 | 3,800 | 1,300 | 75,000 | 31,000 | 22,000 | 12,000 | 68,000 | 3,100 | 1,100 | 8,700 | 950 | 610 | 620 | 620 |
| pH (standard units) | 6.8 | 6.5 | 7.3 | 7.3 | 6.8 | 6.6 | 7.3 | 7.3 | 7.0 | 6.6 | 7.3 | 7.3 | 7.3 | 6.8 | 7.3 | 7.3 |
| Dissolved Oxygen (mg/L) | -- | 0.21 | 0.18 | -- | -- | 0.23 | 0.19 | -- | -- | 0.26 | 0.31 | -- | -- | 0.26 | 0.23 | -- |
| DHC (cells per milliliter) | <0.5 | -- | 1.3 | -- | <0.5 | -- | 82.2 | -- | <0.5 | -- | 64.3 | -- | <0.5 | -- | 65 | -- |
| DHC / tceA | <0.5 | -- | <0.5 | -- | <0.5 | -- | 0.7 | -- | <0.5 | -- | 6.8 | -- | <0.5 | -- | 0.3 (j) | -- |
| DHC / bvcA | <0.5 | -- | <0.5 | -- | <0.5 | -- | 0.1 (j) | -- | <0.5 | -- | 2.5 | -- | <0.5 | -- | <0.4 | -- |

NOTES: All units are in micrograms per liter unless otherwise shown
DHC = Dehalococcoides bacteria
< = Less than
-- = Not sampled

TABLE 3: ABC+ DATA AT BACK DOOR AREA AND OLD BORROW PIT (Page 2 of 2)

| LOCATION | OLD BORROW PIT | | | | | | | | | | | | |
|----------------------------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 96-203A | | | | | 98-223A | | | | 98-223B | | | |
| | 1/22/14 | 3/19/14 | 5/13/14 | 8/13/14 | 11/1/14 | 1/22/14 | 3/19/14 | 5/13/14 | 11/1/14 | 1/22/14 | 3/19/14 | 5/13/14 | 11/1/14 |
| Ethane | <1 | <1 | <1 | -- | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethylene | <1 | <1 | <1 | -- | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Methane | 3.5 | 3.5 | 2.2 | -- | 2.4 | 1.4 | <0.5 | <0.5 | <0.5 | 2.1 | 2.3 | 0.9 | 1.9 |
| Trichloroethene | 470 | 500 | 360 | 580 | 590 | 190 | 170 | 160 | 75 | 190 | 210 | 180 | 180 |
| cis-1,2 Dichloroethene | 24 | 23 | 140 | 37 | 30 | 49 | 120 | 76 | 33 | 25 | 20 | 19 | 66 |
| trans-1,2 Dichloroethene | <5 | <5 | <2.5 | <5 | <5 | 1.4 | 104 | <1 | <1 | <2 | <2 | <2 | 2.2 |
| Vinyl Chloride | <5 | <5 | <2.5 | <5 | <5 | <1 | <1 | <1 | <1 | <2 | <2 | <2 | <2 |
| 1,1,1-Trichloroethane | <5 | <5 | <2.5 | <5 | <5 | <1 | <1 | <1 | <1 | <2 | <2 | <2 | <2 |
| 1,1-Dichloroethene | <5 | <5 | <2.5 | <5 | <5 | <1 | <1 | <1 | <1 | <2 | <2 | <2 | <2 |
| 1,1-Dichloroethane | <5 | <5 | <2.5 | <5 | <5 | <1 | <1 | <1 | <1 | <2 | <2 | <2 | <2 |
| Iron | 800 | 420 | 370 | -- | 320 | 11 | 16 | 17 | <10 | 92 | 73 | 83 | 34 |
| Manganese | -- | 190 | 110 | -- | 100 | -- | <10 | <10 | <10 | -- | 73 | 49 | 14 |
| Arsenic | <1 | -- | <1 | -- | <1 | <1 | -- | <1 | <1 | <1 | -- | <1 | <1 |
| Nitrate | <50 | <50 | <50 | -- | -- | 96 | 960 | 170 | -- | <50 | <50 | <50 | -- |
| Sulfate | 27,000 | 24,000 | 23,000 | -- | -- | 25,000 | 24,000 | 25,000 | -- | 28,000 | 28,000 | 26,000 | -- |
| Total Organic Carbon | 800 | 670 | 670 | -- | 620 | 860 | 960 | 880 | 970 | 620 | 660 | 630 | 600 |
| pH (standard units) | 7.3 | 6.8 | 7.3 | 7.3 | 7.3 | 7.0 | 6.5 | 7.1 | 7.3 | 7.2 | 6.7 | 7.3 | 7.2 |
| Dissolved Oxygen (mg/L) | -- | 0.61 | 0.22 | 0.23 | -- | -- | 2.80 | 3.05 | -- | -- | 0.40 | 0.24 | -- |
| DHC (cells per milliliter) | <0.5 | -- | 18.2 | -- | -- | <0.5 | -- | 0.7 | -- | <0.5 | -- | 14 | -- |
| DHC / tceA | <0.5 | -- | 0.2 (j) | -- | -- | <0.5 | -- | <0.5 | -- | <0.5 | -- | <0.5 | -- |
| DHC / bvcA | <0.5 | -- | <0.5 | -- | -- | <0.5 | -- | <0.5 | -- | <0.5 | -- | <0.5 | -- |

NOTES: All units are in micrograms per liter unless otherwise shown
DHC = Dehalococcoides
< = Less than
-- = Not sampled

TABLE 4: ABC+ GROUNDWATER DATA AT OIL STORAGE ROOM

| LOCATION | IW-1 | 97-214B | TW-1 | TW-2 | TW-3 | TW-4 | 96-201B | 98-215A | 06-18 / 1 | 06-18 / 2 |
|--------------------------|---------|---------|---------|--------|-------|-------|---------|---------|-----------|-----------|
| Ethane | 8.3 | 20 | 530 | 31 | 37 | 1.8 | <1 | 8.8 | 97 | <1 |
| Ethylene | 3,100 | 6.6 | 90 | 110 | 110 | 5.8 | <1 | <1 | 1,100 | 1.3 |
| Methane | 3,300 | 7,000 | 170 | 5,000 | 740 | 430 | 0.5 | 220 | 2,600 | 6.2 |
| Trichloroethene | <50 | <1 | 1,600 | <5 | 30 | <1 | 5.2 | 19 | 8.8 | 230 |
| cis-1,2 Dichloroethene | 22,000 | 1.4 | 150,000 | 33 | 180 | <1 | <1 | 5.0 | 9.8 | 33 |
| trans-1,2 Dichloroethene | 94 | <1 | 780 | <5 | <2 | <1 | <1 | <1 | <1 | <2.5 |
| Vinyl Chloride | 59,000 | 13 | 740 | 580 | 130 | 12 | <1 | <1 | 54 | <2.5 |
| 1,1,1-Trichloroethane | 180 | <1 | 3,500 | 6.8 | 21 | <1 | <1 | <1 | 18 | 5.0 |
| 1,1-Dichloroethene | 85 | <1 | 580 | <5 | <2 | <1 | <1 | <1 | <1 | <2.5 |
| 1,1-Dichloroethane | 1,300 | <1 | 770 | 37 | 33 | <1 | <1 | <1 | 150 | <2.5 |
| Iron | 52,000 | 6,300 | 65,000 | 7,400 | 2,800 | 3,800 | 45 | <10 | 2,800 | 71 |
| Manganese | 470 | 220 | 1,100 | 190 | 670 | 78 | <10 | 28 | 150 | <10 |
| Arsenic | 5.0 | 17 | 45 | 14 | 4.4 | 9.3 | <1 | <1 | 8.4 | <1 |
| Nitrate | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sulfate | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total Organic Carbon | 140,000 | 28,000 | 190,000 | 36,000 | 5,800 | 820 | 610 | 5,800 | 26,000 | 640 |
| pH (standard units) | 7.2 | 7.2 | 7.2 | 7.0 | 7.0 | 7.0 | 7.3 | 6.6 | 6.7 | 6.7 |
| Dissolved Oxygen (mg/L) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

NOTES: All chemical data are in micrograms per liter; units for field parameters are as shown
 mg/L = Milligrams per liter
 < = Less than
 -- = Not sampled

TABLE 5 - ABC+ ANALYTICAL DATA AT OIL STORAGE ROOM, JANUARY 2013 THROUGH NOVEMBER 2014 (page 1 of 5)

| LOCATION | IW-1 | | | | | | | 97-214B | | | | | | |
|--------------------------|-----------|------------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Jan, 2013 | Mar, 2013 | May, 2013 | Aug, 2013 | Nov, 2013 | May, 2014 | Nov, 2014 | Jan, 2013 | Mar, 2013 | May, 2013 | Aug, 2013 | Nov, 2013 | May, 2014 | Nov, 2014 |
| Ethane | -- | <1 | 8.9 | 7.4 | -- | 6.0 | 8.3 | -- | 43 | 13 | 8.3 | -- | 13.0 | 20 |
| Ethylene | -- | 8 | 73 | 190 | -- | 1,400 | 3,100 | -- | 14 | 12 | 6.2 | -- | 5.6 | 6.6 |
| Methane | -- | 160 | 8,600 | 15,000 | -- | 6,600 | 3,300 | -- | 4,500 | 8,100 | 8,200 | -- | 6,400 | 7,000 |
| Trichloroethene | <500 | 5,000 | 8,900 | 4,700 | 1,700 | 71 | <50 | <10 | 1.4 | <1 | <1 | <1 | <1 | <1 |
| cis-1,2 Dichloroethene | 51,000 | 47,000 | 39,000 | 11,000 | 31,000 | 26,000 | 22,000 | 1,000 | 9.9 | 1.0 | 9.8 | 1.0 | 2.0 | 1.4 |
| trans-1,2 Dichloroethene | <500 | <500 | <250 | 56 | 85 | 110 | 94 | <10 | <1 | <1 | <1 | <1 | <1 | <1 |
| Vinyl Chloride | 11,000 | 2,500 | 2,000 | 1,400 | 4,100 | 25,000 | 59,000 | 250 | 39 | 19 | 25 | 44 | 19 | 13 |
| 1,1,1-Trichloroethane | <500 | <500 | <250 | 10 | <25 | 61 | 180 | 59.0 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | <500 | <500 | <250 | 88 | <25 | 120 | 85 | <10 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethane | 890 | 1,000 | 820 | 290 | 510 | 900 | 1,300 | 110 | 13 | 2.6 | 9.8 | 1.6 | <1 | <1 |
| Iron | 35,000 | 280,000 | 240,000 | 120,000 | 66,000 | 45,000 | 52,000 | 3,700 | 33,000 | 15,000 | 27,000 | 14,000 | 9,400 | 6,300 |
| Manganese | -- | -- | 2,200 | 1,000 | 730 | 440 | 470 | -- | -- | 500 | 560 | 390 | 260 | 220 |
| Arsenic | 4.6 | 12 | 3.4 | 2.4 | 6.8 | 4.6 | 5.0 | 14 | 22 | 22 | 17 | 16 | 20 | 17 |
| Nitrate | <50 | <50 | <50 | 210 | -- | <50 | -- | <50 | <50 | <50 | <50 | -- | <50 | -- |
| Sulfate | 6,900 | 11,000 | 11,000 | <5,000 | -- | <5,000 | -- | 8,200 | <5,000 | <5,000 | 7,500 | -- | 6,800 | -- |
| Total Organic Carbon | 180,000 | 13,000,000 | 3,200,000 | 580,000 | 300,000 | 200,000 | 140,000 | 16,000 | 210,000 | 88,000 | 180,000 | 77,000 | 40,000 | 28,000 |
| pH (standard units) | 6.8 | 4.8 | 5.4 | 6.0 | 6.1 | 6.5 | 7.2 | 7.7 | 6.0 | 6.9 | 6.4 | 6.4 | 7.2 | 7.2 |
| Dissolved Oxygen (mg/L) | 0.21 | 0.22 | 0.14 | 0.04 | 0.04 | 0.09 | -- | 0.19 | 0.19 | 0.13 | 0.10 | 0.10 | 0.18 | -- |
| Dehalococcoides (DHC) | -- | 529,000 | 220,000 | 982,000 | 6,940,000 | -- | -- | -- | 63,700 | 4,720 | 69,600 | 122,000 | -- | -- |
| DHC / tceA | -- | <1.7 | <1.7 | <2.8 | <2.5 | -- | -- | -- | 3,290 | 514 | 22,800 | 37,900 | -- | -- |
| DHC / bvcA | -- | 890,000 | 54,400 | 1,670,000 | 15,400,000 | -- | -- | -- | 15,800 | 8,750 | 5,060 | 296,000 | -- | -- |

NOTES:

All chemical data are in micrograms per liter; units for field parameters are as shown

Biologic data are in units of cells per milliliter

mg/L = milligrams per liter

< = Less than

-- = Not sampled

TABLE 5 - ABC+ ANALYTICAL DATA AT OIL STORAGE ROOM, JANUARY 2013 THROUGH NOVEMBER 2014 (page 2 of 5)

| LOCATION | TW-1 | | | | | | | TW-2 | | | | | | |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Jan, 2013 | Mar, 2013 | May, 2013 | Aug, 2013 | Nov, 2013 | May, 2014 | Nov, 2014 | Jan, 2013 | Mar, 2013 | May, 2013 | Aug, 2013 | Nov, 2013 | May, 2014 | Nov, 2014 |
| Ethane | -- | 43 | 76 | 46 | -- | 780 | 530 | -- | 47 | 47 | 38 | -- | 11 | 31 |
| Ethylene | -- | 9.0 | 44 | 38 | -- | 100 | 90 | -- | 8.5 | 38 | 19 | -- | 33 | 110 |
| Methane | -- | 1,100 | 670 | 540 | -- | 320 | 170 | -- | 3,000 | 3,000 | 2,700 | -- | 4,900 | 5,000 |
| Trichloroethene | <200 | <50 | 38 | 67 | 54 | 3,800 | 1,600 | <10 | <10 | <10 | <10 | <2.5 | <5 | <5 |
| cis-1,2 Dichloroethene | 15,000 | 20,000 | 17,000 | 38,000 | 52,000 | 180,000 | 150,000 | 1,200 | 1,300 | 1,600 | 1,500 | 2,200 | 310 | 33 |
| trans-1,2 Dichloroethene | <200 | <50 | 20 | 210 | <50 | 740 | 780 | <10 | 12 | 10 | <10 | 9.1 | <5 | <5 |
| Vinyl Chloride | 78J | 76 | 170 | 190 | 410 | 1,000 | 740 | 61 | 62 | 400 | 46 | 230 | 480 | 580 |
| 1,1,1-Trichloroethane | 640 | 940 | 370 | 1,500 | 1,600 | 4,800 | 3,500 | 90 | 120 | 130 | 110 | 59 | 52 | 6.8 |
| 1,1-Dichloroethene | <200 | 140 | 130 | 340 | 350 | 1,100 | 580 | <10 | 10 | <10 | <10 | 15 | <5 | <5 |
| 1,1-Dichloroethane | <200 | 390 | 590 | 1,200 | 1,000 | 1,400 | 770 | 57 | 80 | 89 | 58 | 160 | 34 | 37 |
| Iron | 29,000 | 230,000 | 150,000 | 92,000 | 76,000 | 70,000 | 65,000 | 13,000 | 9,800 | 6,600 | 5,800 | 8,100 | 7,400 | 7,400 |
| Manganese | -- | -- | 2,100 | 1,500 | 1,300 | 1,200 | 1,100 | -- | -- | 140 | 130 | 160 | 120 | 190 |
| Arsenic | 54 | 110 | 95 | 71 | 62 | 53 | 45 | 18 | 15 | 15 | 13 | 14 | 17 | 14 |
| Nitrate | <50 | <50 | <50 | 60 | -- | <50 | -- | <50 | <50 | <50 | 90 | -- | 84 | -- |
| Sulfate | <5,000 | <5,000 | <5,000 | <5,000 | -- | <5,000 | -- | 5,200 | <5,000 | <5,000 | <5,000 | -- | <5,000 | -- |
| Total Organic Carbon | 72,000 | 5,600,000 | 4,100,000 | 2,000,000 | 700,000 | 260,000 | 190,000 | 36,000 | 20,000 | 19,000 | 12,000 | 47,000 | 28,000 | 36,000 |
| pH (standard units) | 7.2 | 5.6 | 5.8 | 5.8 | 6.0 | 6.5 | 7.2 | 7.5 | 6.8 | 7.3 | 7.0 | 7.1 | 7.4 | 7.0 |
| Dissolved Oxygen (mg/L) | 0.23 | 0.24 | 0.18 | 0.15 | 0.08 | 0.20 | -- | 0.23 | 0.26 | 0.19 | 0.12 | 0.06 | 0.18 | -- |
| Dehalococcoides (DHC) | -- | 10,700 | 17,400 | 63,100 | 214,000 | -- | -- | -- | 54,500 | 115,000 | 24,400 | 268,000 | -- | -- |
| DHC / tceA | -- | 24,200 | 303 | 526 | 8,510 | -- | -- | -- | 42,200 | 16,500 | 10,700 | 23,000 | -- | -- |
| DHC / bvcA | -- | 14,000 | 6,160 | 39,400 | 484,000 | -- | -- | -- | 65,800 | 20,400 | 33,800 | 392,000 | -- | -- |

NOTES:

All chemical data are in micrograms per liter; units for field parameters are as shown

Biologic data are in units of cells per milliliter

mg/L = milligrams per liter

< = Less than

-- = Not sampled

TABLE 5 - ABC+ ANALYTICAL DATA AT OIL STORAGE ROOM, JANUARY 2013 THROUGH NOVEMBER 2014 (page 3 of 5)

| LOCATION | TW-3 | | | | | | | TW-4 | | | | | | |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Jan, 2013 | Mar, 2013 | May, 2013 | Aug, 2013 | Nov, 2013 | May, 2014 | Nov, 2014 | Jan, 2013 | Mar, 2013 | May, 2013 | Aug, 2013 | Nov, 2013 | May, 2014 | Nov, 2014 |
| Ethane | -- | 160 | 220 | 65 | -- | 58 | 37 | -- | <1 | <1 | 3.7 | -- | <1 | 1.8 |
| Ethylene | -- | 130 | 130 | 28 | -- | 170 | 110 | -- | 4.1 | 5.8 | 39 | -- | 2.2 | 5.8 |
| Methane | -- | 330 | 1,400 | 330 | -- | 800 | 740 | -- | 660 | 180 | 2,700 | -- | 190 | 430 |
| Trichloroethene | <200 | <200 | <20 | 40 | 34 | 18 | 30 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| cis-1,2 Dichloroethene | 15,000 | 17,000 | 14,000 | 360 | 380 | 300 | 180 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| trans-1,2 Dichloroethene | <200 | <200 | <20 | <2.0 | <2.5 | <2 | <2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Vinyl Chloride | 1,100 | 1,200 | 2,600 | 180 | 2,600 | 190 | 130 | 9.5 | 12 | 9.6 | 11 | 12 | 5.0 | 12 |
| 1,1,1-Trichloroethane | 240 | 480 | 430 | 47 | 50 | 28 | 21 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | <200 | <200 | 60 | 4.0 | <2.5 | <2 | <2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethane | 220 | 210 | 160 | 23 | 160 | 50 | 33 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Iron | 5,200 | 4,000 | 6,000 | 5,000 | 5,500 | 5,900 | 2,800 | 4,200 | 8,900 | 7,600 | 5,400 | 4,800 | 3,800 | 3,800 |
| Manganese | -- | -- | 640 | 910 | 1,100 | 1,000 | 670 | -- | -- | 100 | 79 | 100 | 94 | 78 |
| Arsenic | 6.6 | 4.9 | 6.6 | 6.4 | 5.5 | 6.9 | 4.4 | 12 | 10 | 11 | 10 | 10 | 13 | 9.3 |
| Nitrate | <50 | <50 | <50 | <50 | -- | <50 | -- | <50 | <50 | <50 | <50 | -- | <50 | -- |
| Sulfate | 8,600 | 5,100 | <5,000 | 11,000 | -- | 13,000 | -- | 7,000 | <5,000 | 12,000 | 6,800 | -- | 13,000 | -- |
| Total Organic Carbon | 19,000 | 31,000 | 18,000 | 14,000 | 41,000 | 11,000 | 5,800 | 750 | 900 | 880 | 4,500 | 730 | 810 | 820 |
| pH (standard units) | 7.2 | 6.5 | 7.2 | 6.7 | 6.9 | 7.3 | 7.0 | 7.8 | 6.8 | 7.2 | 7.1 | 7.3 | 7.6 | 7.0 |
| Dissolved Oxygen (mg/L) | 0.28 | 0.31 | 0.19 | 0.18 | 0.07 | 0.21 | -- | 0.25 | 1.24 | 1.49 | 0.09 | 0.07 | 0.20 | -- |
| Dehalococcoides (DHC) | -- | 19,800 | 4,980 | 128,000 | 2,160,000 | -- | -- | -- | 11,700 | 3,630 | 9,050 | 402 | -- | -- |
| DHC / tceA | -- | 2,860 | 1,210 | 253 | 7,890 | -- | -- | -- | 8,190 | 9,000 | 6,160 | 4,530 | -- | -- |
| DHC / bvcA | -- | 16,100 | 5,760 | 93,200 | 5,470,000 | -- | -- | -- | 5,920 | 1,100 | 7,530 | 35,700 | -- | -- |

NOTES:

All chemical data are in micrograms per liter; units for field parameters are as shown

Biologic data are in units of cells per milliliter

mg/L = milligrams per liter

< = Less than

-- = Not sampled

TABLE 5 - ABC+ ANALYTICAL DATA AT OIL STORAGE ROOM, JANUARY 2013 THROUGH NOVEMBER 2014 (page 4 of 5)

| LOCATION | 96-201B | | | | | | | 98-215A | | | | | | |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Jan, 2013 | Mar, 2013 | May, 2013 | Aug, 2013 | Nov, 2013 | May, 2014 | Nov, 2014 | Jan, 2013 | Mar, 2013 | May, 2013 | Aug, 2013 | Nov, 2013 | May, 2014 | Nov, 2014 |
| Ethane | -- | <1 | <1 | <1 | -- | -- | <1 | -- | <1 | <1 | <1 | -- | 33 | 8.8 |
| Ethylene | -- | <1 | <1 | <1 | -- | -- | <1 | -- | <1 | <1 | <1 | -- | <1 | <1 |
| Methane | -- | 1.4 | <0.5 | <0.5 | -- | -- | 0.5 | -- | <0.5 | <0.5 | <0.5 | -- | 810 | 220 |
| Trichloroethene | 28 | 8.3 | 5.5 | 4.2 | 4.4 | -- | 5.2 | 19 | 21 | 23 | 24 | 19 | 29 | 19 |
| cis-1,2 Dichloroethene | <1 | <1 | <1 | <1 | <1 | -- | <1 | 2.5 | 4.1 | 4.4 | 10 | 5.0 | 20 | 5.0 |
| trans-1,2 Dichloroethene | <1 | <1 | <1 | <1 | <1 | -- | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Vinyl Chloride | <1 | <1 | <1 | <1 | <1 | -- | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,1-Trichloroethane | 1.2 | <1 | <1 | <1 | <1 | -- | <1 | 1.3 | 1.5 | 1.6 | 1.5 | 1.2 | 1.9 | <1 |
| 1,1-Dichloroethene | <1 | <1 | <1 | <1 | <1 | -- | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethane | <1 | <1 | <1 | <1 | <1 | -- | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Iron | 44 | 26 | 63 | 36 | 19 | -- | 45 | 19 | 20 | <10 | <10 | 72 | 39 | <10 |
| Manganese | -- | -- | 55 | 11 | <10 | -- | <10 | -- | -- | 12 | 19 | 83 | 19 | 28 |
| Arsenic | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | -- | <1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1 | <1 |
| Nitrate | 290 | 200 | 500 | 930 | -- | -- | -- | 2,700 | 2,800 | 2,700 | 3,200 | -- | 5,300 | -- |
| Sulfate | 24,000 | 26,000 | 20,000 | 17,000 | -- | -- | -- | 15,000 | 15,000 | 13,000 | 14,000 | -- | 19,000 | -- |
| Total Organic Carbon | 680 | 540 | 710 | 630 | 660 | -- | 610 | 1,300 | 3,000 | 1,800 | 2,700 | 2,800 | 4,400 | 5,800 |
| pH (standard units) | 7.6 | 6.7 | 7.1 | 6.9 | 7.1 | -- | 7.3 | 7.7 | 6.6 | 7.2 | 6.8 | 7.0 | 7.3 | 6.6 |
| Dissolved Oxygen (mg/L) | 0.50 | 0.47 | 0.53 | 0.61 | 0.79 | -- | -- | 5.3 | 4.6 | 4.9 | 5.7 | 3.9 | 0.4 | -- |
| Dehalococcoides (DHC) | -- | <0.4 | <0.4 | <0.5 | -- | -- | -- | -- | <0.5 | <0.5 | <0.5 | -- | -- | -- |
| DHC / tceA | -- | <0.4 | <0.4 | <0.5 | -- | -- | -- | -- | <0.5 | <0.5 | <0.5 | -- | -- | -- |
| DHC / bvcA | -- | <0.4 | <0.4 | <0.5 | -- | -- | -- | -- | <0.5 | <0.5 | <0.5 | -- | -- | -- |

NOTES:

All chemical data are in micrograms per liter; units for field parameters are as shown

Biologic data are in units of cells per milliliter

mg/L = milligrams per liter

< = Less than

-- = Not sampled

TABLE 5 - ABC+ ANALYTICAL DATA AT OIL STORAGE ROOM, JANUARY 2013 THROUGH NOVEMBER 2014 (page 5 of 5)

| LOCATION | 06-18 / 1 | | | | | | | 06-18 / 2 | | | | | | |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Jan, 2013 | Mar, 2013 | May, 2013 | Aug, 2013 | Nov, 2013 | May, 2014 | Nov, 2014 | Jan, 2013 | Mar, 2013 | May, 2013 | Aug, 2013 | Nov, 2013 | May, 2014 | Nov, 2014 |
| Ethane | -- | <1 | 16 | 70 | -- | 26 | 97 | -- | <1 | <1 | 1.0 | -- | <1 | <1 |
| Ethylene | -- | 26 | 320 | 980 | -- | 640 | 1,100 | -- | <1 | <1 | 76 | -- | 150 | 1.3 |
| Methane | -- | 1.5 | 430 | 2,700 | -- | 1,800 | 2,600 | -- | 1.2 | 4.4 | 410 | -- | 330 | 6.2 |
| Trichloroethene | 29 | 29 | 18 | 17 | 16 | 12 | 8.8 | 130 | 62 | 57 | 260 | 120 | 130 | 230 |
| cis-1,2 Dichloroethene | 1,700 | 1,000 | 170 | 61 | 40 | 38 | 9.8 | 9.2 | 11 | 9.3 | 220 | 17 | 28 | 33 |
| trans-1,2 Dichloroethene | <10 | <10 | <1 | <1 | <10 | <1 | <1 | <1.0 | <1.0 | <1.0 | <2.5 | <1 | <1 | <2.5 |
| Vinyl Chloride | 830 | 530 | 170 | 66 | 1,200 | 76 | 54 | 1.4 | 1.3 | 1.2 | 110 | 1.0 | 120 | <2.5 |
| 1,1,1-Trichloroethane | 130 | 120 | 61 | 31 | 26 | 41 | 18 | 5.0 | 2.8 | 2.2 | 8.8 | 4.6 | 4.6 | 5.0 |
| 1,1-Dichloroethene | <10 | <10 | 1.8 | <1 | 1.5 | <1 | <1 | <1.0 | <1.0 | <1.0 | 2.6 | <1 | <1 | <2.5 |
| 1,1-Dichloroethane | 38 | 28 | 32 | 110 | 150 | 80 | 150 | <1.0 | <1.0 | <1.0 | 6.7 | <1 | 1.3 | <2.5 |
| Iron | 2,200 | 1,900 | 2,200 | 3,200 | 2,200 | 2,500 | 2,800 | 11 | <10 | 11 | 23 | 13 | 39 | 71 |
| Manganese | -- | -- | 420 | 240 | 170 | 200 | 150 | -- | -- | <10 | <10 | <10 | <10 | <10 |
| Arsenic | 12 | 11 | 10 | 8.8 | 8.7 | 11 | 8.4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1 | <1 |
| Nitrate | 84 | <50 | <50 | <50 | -- | <50 | -- | 280 | 240 | 220 | <50 | -- | 57 | -- |
| Sulfate | 17,000 | 19,000 | 9,000 | <5,000 | -- | <5,000 | -- | 23,000 | 21,000 | 21,000 | <5,000 | -- | 9,800 | -- |
| Total Organic Carbon | 1,100 | 1,100 | 1,500 | 8,500 | 2,000 | 24,000 | 26,000 | 600 | 570 | 670 | 700 | 690 | 630 | 640 |
| pH (standard units) | 7.9 | 6.9 | 7.3 | 7.2 | 7.5 | 7.6 | 6.7 | 7.6 | 6.8 | 7.1 | 6.9 | 7.1 | 7.3 | 6.7 |
| Dissolved Oxygen (mg/L) | 0.40 | 0.48 | 0.24 | 0.14 | 0.12 | 0.24 | -- | 0.40 | 0.44 | 0.26 | 0.27 | 0.19 | 0.24 | -- |
| Dehalococcoides (DHC) | -- | 21,700 | 14,200 | 59,700 | 234,000 | -- | -- | -- | <0.4 | <0.5 | 72.7 | 0.4J | -- | -- |
| DHC / tceA | -- | 9,790 | 4,860 | 40,600 | 221,000 | -- | -- | -- | <0.4 | <0.5 | 45.8 | 6.10 | -- | -- |
| DHC / bvcA | -- | 19,200 | 5,320 | 41,400 | 344,000 | -- | -- | -- | <0.4 | <0.5 | 95.9 | 15.4 | -- | -- |

NOTES:

All chemical data are in micrograms per liter; units for field parameters are as shown

Biologic data are in units of cells per milliliter

mg/L = milligrams per liter

< = Less than

-- = Not sampled

TABLE 6: EMISSIONS FROM SUB-SLAB DEPRESSURIZATION SYSTEM

| November 25, 2014 | |
|---|----------|
| Trichloroethene, mg/m ³ | 3.5 |
| cis-1,2-dichloroethene, mg/m ³ | 1.1 |
| 1,1,1-trichloroethane, mg/m ³ | 0.1 |
| Total VOCs, mg/m ³ | 4.6 |
| Total VOCs, pcf | 2.87E-07 |
| Air velocity, fpm | 1,231 |
| Pipe area, square feet | 0.35 |
| Air flow rate, acfm | 429 |
| Temperature, °C | 20 |
| Air flow rate, cfm | 437 |
| VOC emission rate, pph | 0.008 |

Notes:

mg/m³ = milligrams per cubic meter

VOC = Volatile organic compounds; sum of trichloroethene, cis-1,2-dichloroethene, and 1,1,1-trichloroethane

pcf = Pounds per cubic foot

fpm = Feet per minute (measured)

acfm = Actual cubic feet per minute (not corrected to standard temperature)

cfm = Cubic feet per minute (corrected to standard temperature)

pph = Pounds per hour

TABLE 7: SUB-SLAB VACUUM MEASUREMENTS

| | October 30, 2014 | November 12, 2014 | December 1, 2015 |
|--------|-------------------------|--------------------------|-------------------------|
| VMP-1 | -0.01 | -0.02 | -0.02 |
| VMP-2 | -0.02 | -0.02 | -0.02 |
| VMP-3 | -- | -- | -- |
| VMP-10 | -0.02 | -0.01 | -0.01 |
| VMP-11 | -0.01 | -0.01 | -0.01 |
| VMP-12 | -0.03 | -0.03 | -0.02 |
| VMP-13 | -0.02 | -0.01 | -0.01 |
| VMP-14 | -0.02 | -0.02 | -0.02 |
| VMP-15 | -0.01 | -0.02 | -0.02 |
| VMP-16 | -0.01 | -0.01 | -0.01 |
| VMP-17 | -0.02 | -0.03 | -0.01 |
| VMP-18 | -0.03 | -0.02 | -0.01 |

NOTES:

Measurements are in inches of water

Negative values indicate a gradient down from the building to the sub-slab soil

Positive values indicate a gradient up from the sub-slab soil into the building

TABLE 8: INDOOR AIR ANALYTICAL DATA

| Compound | Indoor Air Screening Level* | PRR Office | JMT | Velthouse Antiques | Michigan Precision | Lower Level - NE |
|------------------------|-----------------------------|------------|-------|--------------------|--------------------|------------------|
| Chloroethane | 44,000 | <0.78 | <0.80 | <0.78 | <0.80 | <0.80 |
| 1,1-Dichloroethane | 77 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| cis-1,2-Dichloroethene | 260 | <1.2 | <1.2 | <1.2 | <3.0 | <3.0 |
| t-1,2-Dichloroethene | 260 | <1.2 | <1.2 | <1.2 | <3.0 | <3.0 |
| Tetrachloroethene | 180 | <2.0 | <2.1 | <2.0 | <5.1 | <5.1 |
| 1,1,1-Trichloroethane | 22,000 | <1.6 | <1.7 | <1.6 | <1.7 | <1.7 |
| Trichloroethene | 8.8 | <1.6 | <1.6 | 5.2 | 2.3 | <0.82 |
| Vinyl Chloride | 28 | <0.37 | <0.39 | <0.37 | <0.77 | <0.77 |

| Compound | Indoor Air Screening Level* | South Rec. Park | Quality Trucking | North Rec. Park 1 | North Rec. Park 2 | Lower Level - SW |
|------------------------|-----------------------------|-----------------|------------------|-------------------|-------------------|------------------|
| Chloroethane | 44,000 | <0.68 | <0.80 | <0.80 | <0.84 | <0.75 |
| 1,1-Dichloroethane | 77 | <1.0 | 2.2 | <1.2 | <1.3 | <1.1 |
| cis-1,2-Dichloroethene | 260 | <2.5 | <3.0 | <3.0 | <3.1 | <2.8 |
| t-1,2-Dichloroethene | 260 | <2.5 | <3.0 | <3.0 | <3.1 | <2.8 |
| Tetrachloroethene | 180 | <4.3 | <5.1 | <5.1 | <5.3 | <4.8 |
| 1,1,1-Trichloroethane | 22,000 | <1.4 | 2.0 | <1.7 | <1.7 | <1.5 |
| Trichloroethene | 8.8 | <0.69 | <0.82 | 1.0 | 1.0 | 0.90 |
| Vinyl Chloride | 28 | <0.66 | <0.77 | <0.77 | <0.81 | <0.72 |

Notes:

All data presented in micrograms per cubic meter

Compounds analyzed by USEPA Method TO-15

Bold indicates a detection above reporting limit; yellow highlighted results exceed industrial indoor air screening levels.

< - Not detected at or above the reported detection limit.

*USEPA Regional Screening Level for Industrial Air (USEPA, November 2012), adjusted for target risk of 1x10⁻⁵ and target hazard quotient of 1.

TABLE 9: SUB-SLAB SOIL VAPOR ANALYTICAL DATA

| Compound | Sub-Slab Soil Vapor Screening Level* | PRR Office / VMP-11 | JMT / VMP-12 | Velthouse Antiques / VMP-13 | Michigan Precision / VMP-14 |
|------------------------|--------------------------------------|---------------------|--------------|-----------------------------|-----------------------------|
| Chloroethane | 1,466,667 | <0.75 | <0.72 | <0.78 | <0.78 |
| 1,1-Dichloroethane | 2,567 | <1.1 | <1.1 | <1.2 | <1.2 |
| cis-1,2-Dichloroethene | 8,667 | <1.1 | <1.1 | <1.2 | <2.9 |
| t-1,2-Dichloroethene | 8,667 | <1.1 | <1.1 | <1.2 | <2.9 |
| Tetrachloroethene | 6,000 | 3.3 | <1.8 | 4.8 | 13.7 |
| 1,1,1-Trichloroethane | 733,333 | 4.2 | <1.5 | 76.3 | <1.6 |
| Trichloroethene | 293 | 115 | <1.5 | 897 | 94.9 |
| Vinyl Chloride | 933 | <0.36 | <0.35 | <0.37 | <0.75 |

| Compound | Sub-Slab Soil Vapor Screening Level* | South Rec. Park / VMP-15 | Quality Trucking / VMP-16 | North Rec. Park 1 / VMP-17 | North Rec. Park 2 / VMP-18 |
|------------------------|--------------------------------------|--------------------------|---------------------------|----------------------------|----------------------------|
| Chloroethane | 1,466,667 | <0.80 | <0.72 | <0.72 | <0.72 |
| 1,1-Dichloroethane | 2,567 | <1.2 | 18.4 | <1.1 | <1.1 |
| cis-1,2-Dichloroethene | 8,667 | <3.0 | 53.5 | <2.7 | <2.7 |
| t-1,2-Dichloroethene | 8,667 | <3.0 | 3.5 | <2.7 | <2.7 |
| Tetrachloroethene | 6,000 | 29.9 | 74.1 | 18.2 | <4.6 |
| 1,1,1-Trichloroethane | 733,333 | <1.7 | 280 | 1.6 | <1.5 |
| Trichloroethene | 293 | 105 | 1,850 | 42.5 | <0.74 |
| Vinyl Chloride | 933 | <0.77 | <0.70 | <0.70 | <0.70 |

Notes:

All data presented in micrograms per cubic meter

Compounds analyzed by USEPA Method TO-15.

Bold indicates detection above reporting limit; yellow highlighted results exceed industrial sub-slab screening levels.

< - Not detected at or above the reported detection limit.

*USEPA Regional Screening Level for Industrial Air (USEPA, November 2012), adjusted for target risk of 1x10⁻⁵ and target hazard quotient of 1, divided by USEPA-recommended attenuation factor of 0.03.

US EPA ARCHIVE DOCUMENT

TABLE 10: SUMMARY OF TRICHLOROETHENE DATA FOR INDOOR AIR AND SUB-SLAB SOIL VAPOR IN PRR BUILDING

| | Mar-12 | Oct-12 | Dec-12 | Jan-13 | Feb-13 | Mar-13 | Apr-13 | May-13 | Jun-13 | Aug-13 | Sep-13 | Oct-13 | Mar-14 | Jun-14 | Sep-14 | Nov-14 |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PRR Office | 17 | 1.3 | 0.52 | <2.1 | 0.97 | <1.1 | 2.2 | 3.5 | 6.9 | 4 | 3.7 | 0.83 | <0.96 | 1.8 | 3.0 | <1.6 |
| VMP-11 | 1000 | 910 | 620 | 460 | 671 | 474 | 1,620 | 345 | 778 | 15 | 796 | 578 | 117 | 370 | 300 | 115 |
| JMT | 39 | 1.5 | 0.41 | 0.72 | 3.2 | <0.74 | 2.7 | <0.82 | 12.8 | 10.0 | 6.9 | <0.85 | 4.1 | 1.7 | 4.1 | <1.6 |
| VMP-12 | 1,800 | <2.1 | <2.1 | <2.1 | 5.5 | 3.9 | 34.4 | 6.7 | 9.6 | 5.4 | 66.5 | 0.81 | <0.79 | 4.3 | 33.8 | <0.35 |
| VH Antiques | 26 | 6.7 | 3.3 | 1.7 | 2.9 | 1.8 | 8.4 | 21.7 | 18.7 | 3.9 | 3.1 | 1.5 | 4.1 | <0.92 | 2.9 | 5.2 |
| VMP-13 | 32,000 | 1,400 | -- | -- | 1,160 | 1,870 | 1,670 | 943 | 203 | 989 | 6,160 | 990 | 1,920 | 533 | 2,400 | 897 |
| MP | 6 | 16 | -- | 8.6 | 14.4 | 67.7 | 8.8 | 6.1 | 2.1 | 4.8 | 1.8 | 2.9 | <0.74 | <0.89 | 3.3 | 2.3 |
| VMP-14 | 8,800 | 6,300 | 6,700 | 1,100 | 10,800 | 4,780 | 3,770 | 3,260 | 1,220 | 658 | 1,510 | 342 | 132 | 82.3 | 731 | 94.9 |
| SREC | 20 | 22 | 7.1 | 4.6 | 13.3 | 12.5 | 6.1 | 9.5 | 4.1 | 2.2 | <1.2 | <0.74 | <0.74 | <0.89 | 2.6 | <0.69 |
| VMP-15 | 14,000 | 220 | 170 | 200 | 139 | 73 | 50.8 | 180 | 197 | 397 | 1,450 | 156 | 58.7 | 67.8 | 767 | 105 |
| QT | 30 | 7.6 | 6.1 | 5.5 | 16.8 | 15.0 | 6.9 | 11.9 | <0.92 | 1.1 | <1.6 | <0.79 | <0.79 | 2.4 | 1.8 | <0.82 |
| VMP-16 | 33,000 | 7,700 | 690 | 2,400 | 261 | 3,160 | 1,700 | 15.6 | 7.0 | 6,840 | 1,280 | -- | 2,240 | 452 | 5,020 | 1,850 |
| NREC-1 | 20 | 24 | 7.0 | 9.8 | 37.6 | 15.4 | 37.1 | 8.3 | 8.3 | 1.1 | <1.0 | <0.76 | 2.5 | 1.4 | 2.5 | 1.0 |
| VMP-17 | 670 | 220 | 56 | 48 | 39.8 | 36.1 | 39.0 | 7.9 | 11.0 | <0.79 | 209 | 1.9 | 45.4 | 234 | 258 | 42.5 |
| NREC-2 | -- | -- | -- | -- | -- | 19.0 | 13.6 | 9.0 | 2.4 | 0.90 | 2.4 | <0.74 | 0.82 | <1.0 | <1.8 | 1.0 |
| VMP-18 | -- | -- | -- | 18,000 | 29,800 | 60.0 | 1,050 | 9.9 | 919 | <0.89 | 2,180 | 15,300 | <0.74 | <0.89 | 3.1 | <0.74 |
| LL-NE | -- | -- | -- | -- | -- | -- | -- | -- | 9.2 | 2.8 | <3.2 | 0.93 | 1.3 | <0.85 | <1.8 | <0.82 |
| LL-SW | -- | -- | -- | -- | -- | -- | -- | -- | 8.5 | 3.5 | -- | 1.6 | <0.76 | 1.2 | <1.7 | 0.90 |

NOTES:

Units are micrograms per cubic meter

< = Less than

-- = Not sampled or data not valid

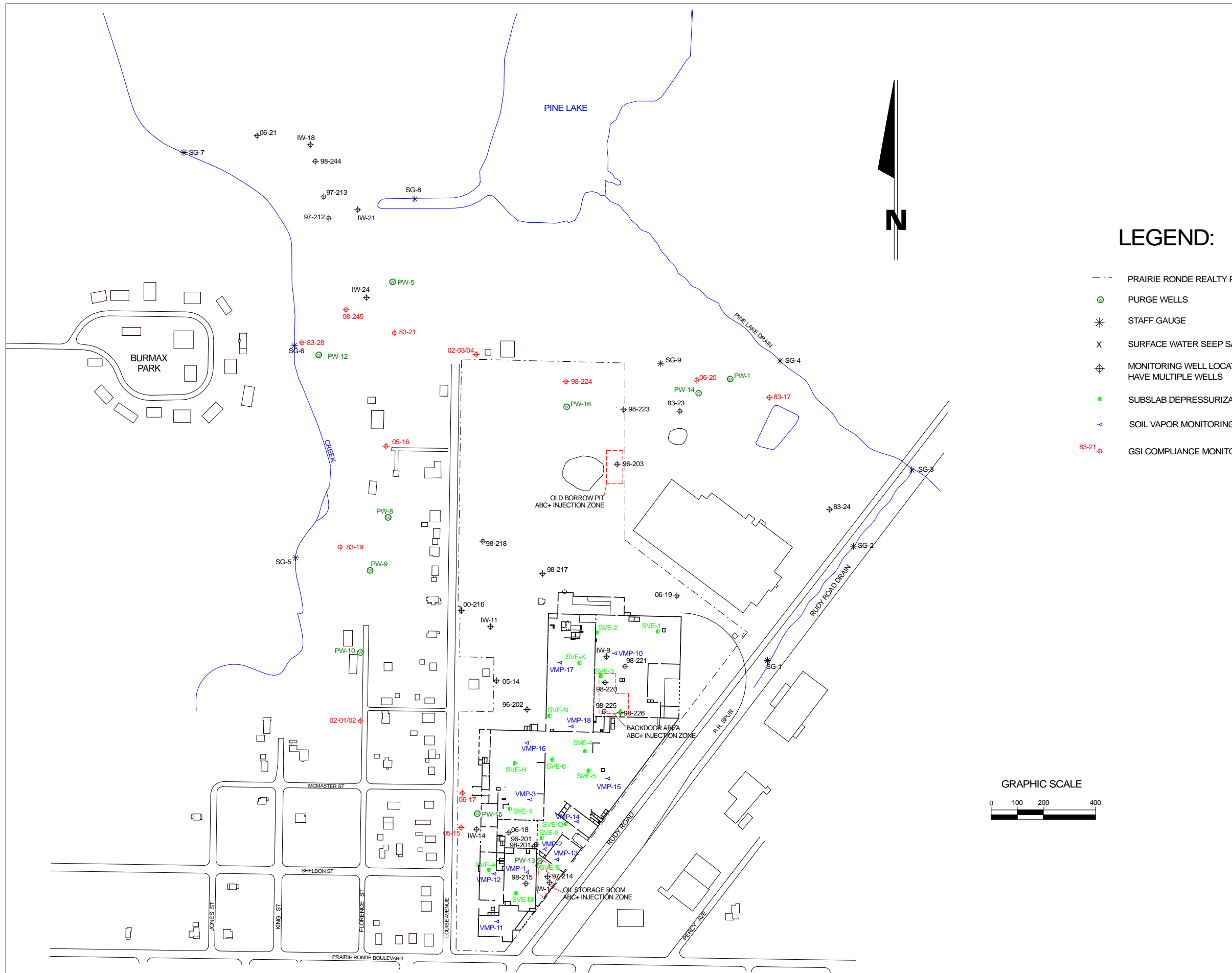
Red = Exceeds Indoor Air screening level

Blue = Exceeds Sub-slab Vapor screening level

TABLE 11: PURGE WELL OPERATION STATUS

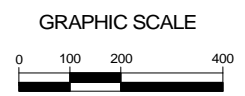
| Purge Well | Current Status | Initial Flowmeter Reading | November 17, 2014 | |
|-------------------------|--------------------------|---------------------------|-------------------|-------------------------|
| | | July 17, 2014 | Flow Rate, GPM | Total Gallons (x 1,000) |
| PW-1 | Shut Down January 2013 | -- | -- | -- |
| PW-3 | Abandoned October 2013 | -- | -- | -- |
| PW-4 | Abandoned October 2013 | -- | -- | -- |
| PW-5 | Operating | 99,054 | 95 | 124,245 |
| PW-6 | Abandoned October 2013 | -- | -- | -- |
| PW-7 | Abandoned October 2013 | -- | -- | -- |
| PW-8 | Shut Down June 2013 | -- | -- | -- |
| PW-9 | Shut Down October 2012 | -- | -- | -- |
| PW-10 | Re-started April 2014 | 55,482 | 70 | 63,549 |
| PW-12 | Shut Down June 2013 | -- | -- | -- |
| PW-13 | Shut Down September 200 | -- | -- | -- |
| PW-14 | Shut Down May 2014 | -- | -- | -- |
| PW-15 | Re-started November 2014 | -- | 150 | 302,498 |
| PW-16 | Re-started November 2014 | -- | -- | -- |
| 500GPM | Shut Down January 2008 | -- | -- | -- |
| 20 GPM | Shut Down September 200 | -- | -- | -- |
| TOTAL PUMPING RATE, GPM | | -- | 315 | -- |

-- = Not measured or not applicable
 GPM = Gallons per minute



LEGEND:

- PRAIRIE RONDE REALTY PROPERTY LINE
- PURGE WELLS
- * STAFF GAUGE
- X SURFACE WATER SEEP SAMPLING POINT
- ⊕ MONITORING WELL LOCATION: SOME LOCATIONS HAVE MULTIPLE WELLS
- SUBSLAB DEPRESSURIZATION VAPOR EXTRACTION WELLS
- △ SOIL VAPOR MONITORING POINT
- ⊕ 83-21 GSI COMPLIANCE MONITORING POINT

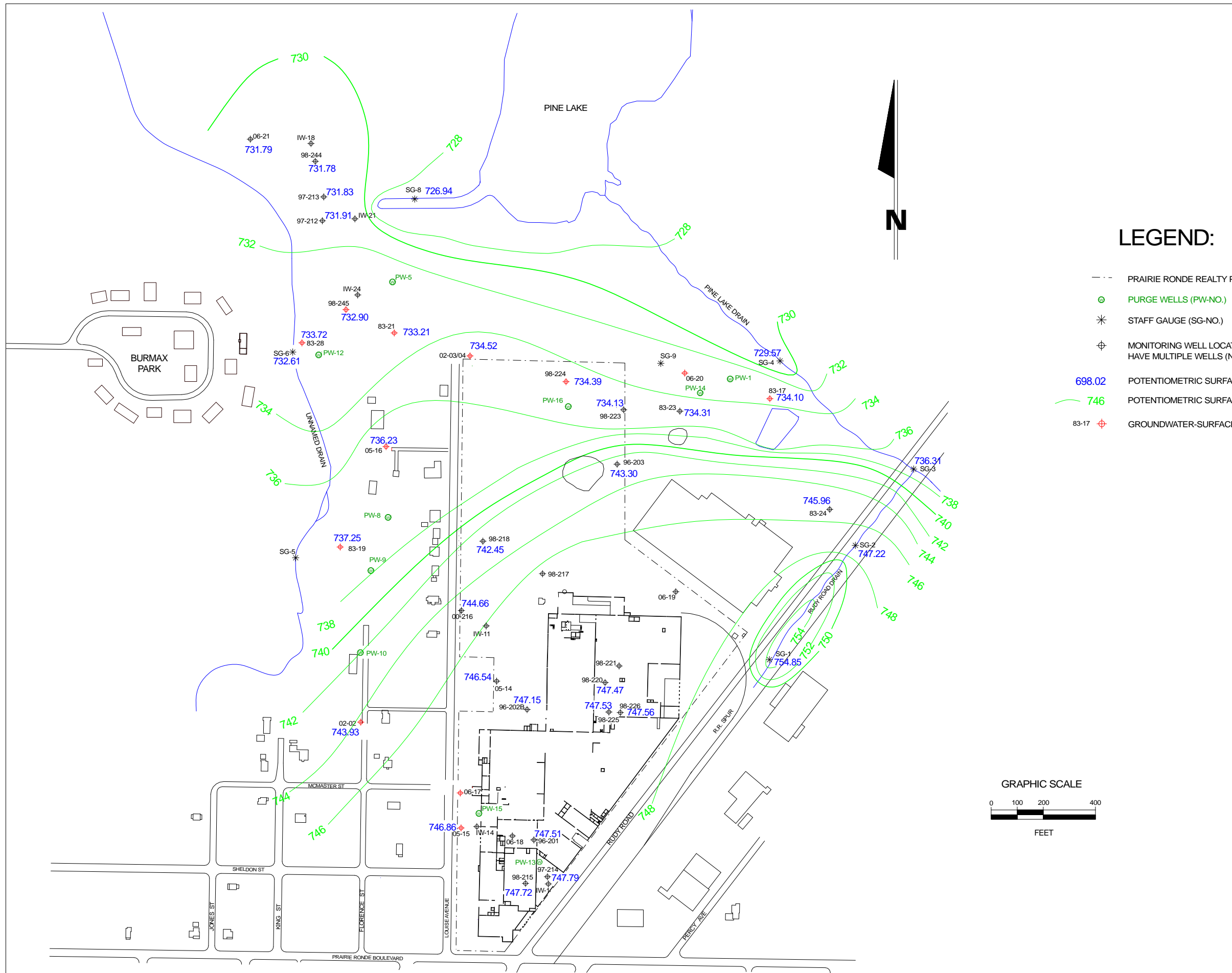


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**FOURTH QUARTER 2014
 MONITORING REPORT**

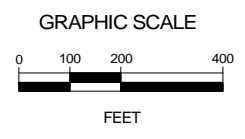
FOR:
PRAIRIE RONDE REALTY COMPANY
 415 East Prairie Ronde, Dowagiac, Michigan 49047

Figure 1:
SITE PLAN



LEGEND:

- PRAIRIE RONDE REALTY PROPERTY LINE
- PURGE WELLS (PW-NO.)
- * STAFF GAUGE (SG-NO.)
- ⊕ MONITORING WELL LOCATION: SOME LOCATIONS HAVE MULTIPLE WELLS (NO.)
- 698.02 POTENTIOMETRIC SURFACE ELEVATION, FEET MSL
- 746 POTENTIOMETRIC SURFACE CONTOUR, FEET MSL
- 83-17 ⊕ GROUNDWATER-SURFACE WATER INTERFACE (GSI) MONITORING WELL

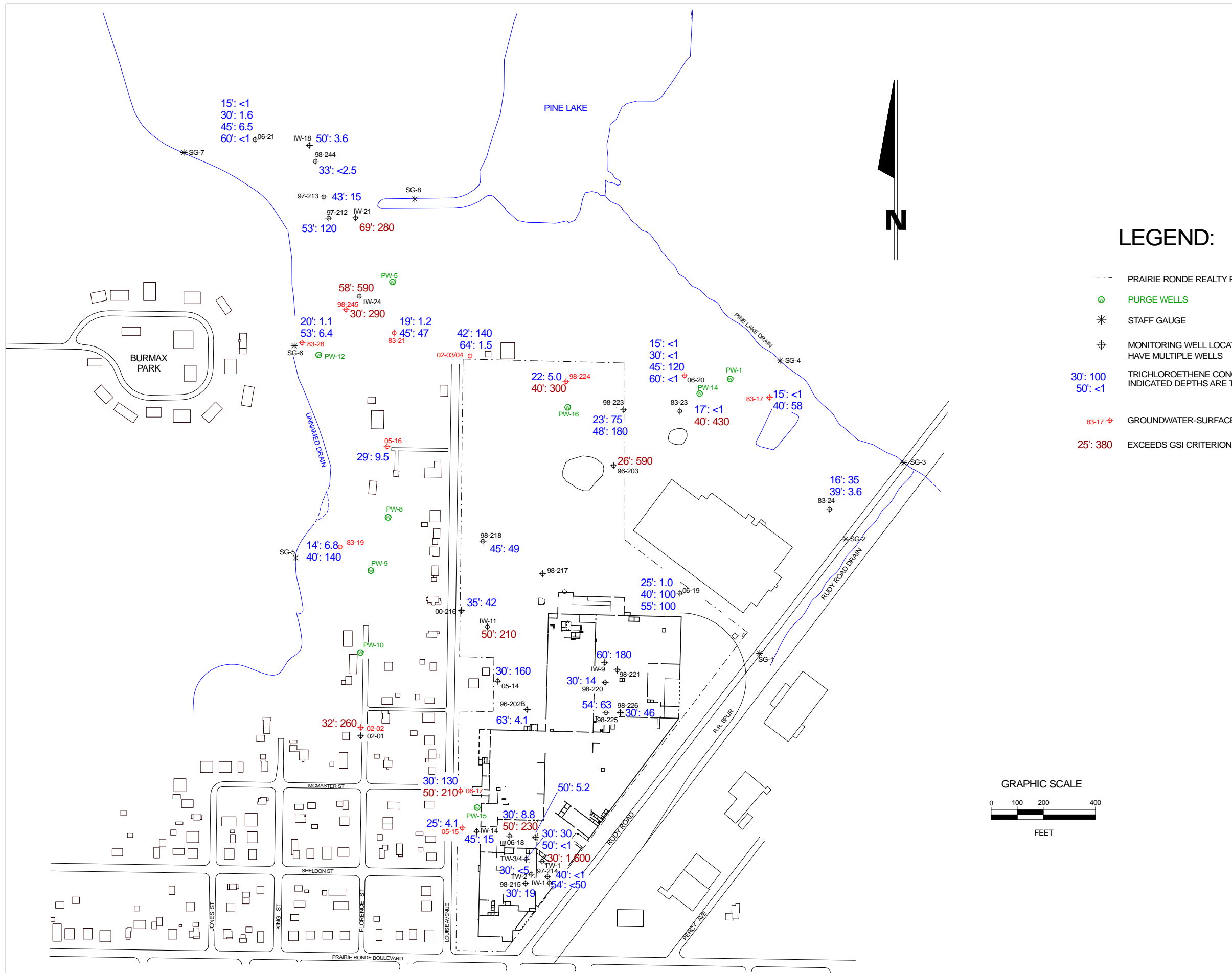


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**FOURTH QUARTER 2014
 MONITORING REPORT**

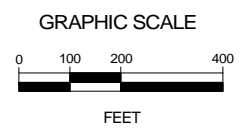
FOR:
PRAIRIE RONDE REALTY COMPANY
 415 East Prairie Ronde, Dowagiac, Michigan 49047

Figure 2:
**POTENTIOMETRIC SURFACE
 IN WELLS SCREENED ABOVE THE
 AQUITARD LAYER**



LEGEND:

- PRAIRIE RONDE REALTY PROPERTY LINE
- PURGE WELLS
- * STAFF GAUGE
- ⊕ MONITORING WELL LOCATION: SOME LOCATIONS HAVE MULTIPLE WELLS
- 30': 100
50': <1
TRICHLOROETHENE CONCENTRATION, MICROGRAMS PER LITER; INDICATED DEPTHS ARE TO BOTTOM OF WELL SCREEN; <= LESS THAN
- 83-17 ⊕ GROUNDWATER-SURFACE WATER INTERFACE (GSI) COMPLIANCE MONITORING WELL
- 25': 380 EXCEEDS GSI CRITERION FOR TRICHLOROETHENE (200 MICROGRAMS PER LITER)

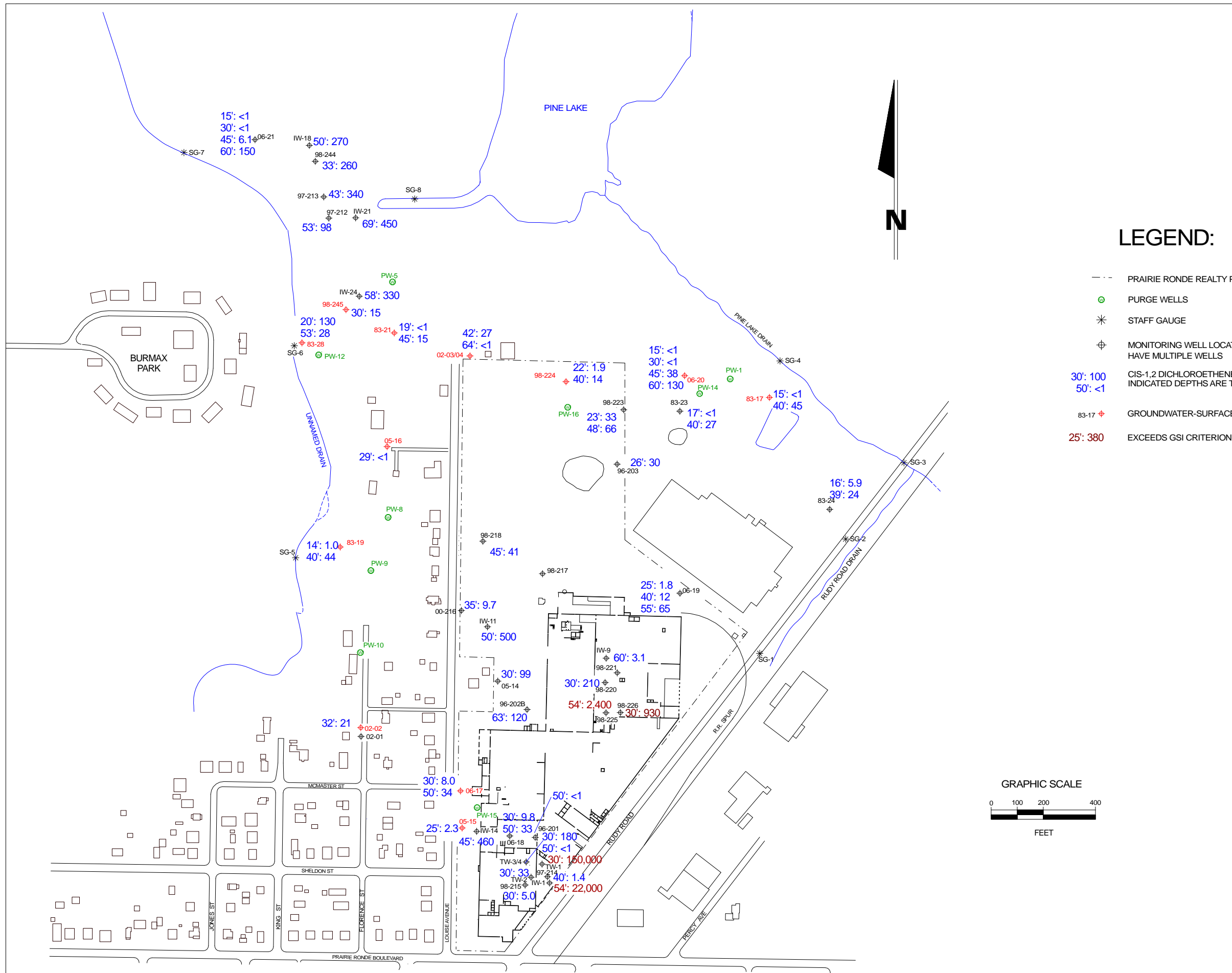


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**FOURTH QUARTER 2014
 MONITORING REPORT**

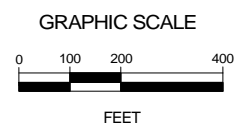
FOR:
PRAIRIE RONDE REALTY COMPANY
 415 East Prairie Ronde, Dowagiac, Michigan 49047

Figure 3:
**TRICHLOROETHENE IN WELLS SCREENED
 ABOVE THE AQUITARD LAYER**



LEGEND:

- PRAIRIE RONDE REALTY PROPERTY LINE
- PURGE WELLS
- * STAFF GAUGE
- ⊕ MONITORING WELL LOCATION: SOME LOCATIONS HAVE MULTIPLE WELLS
- 30': 100
50': <1
CIS-1,2 DICHLOROETHENE CONCENTRATION, MICROGRAMS PER LITER; INDICATED DEPTHS ARE TO BOTTOM OF WELL SCREEN; <= LESS THAN
- 83-17 ⊕ GROUNDWATER-SURFACE WATER INTERFACE (GSI) COMPLIANCE MONITORING WELL
- 25': 380 EXCEEDS GSI CRITERION FOR CIS-1,2-DICHLOROETHENE (620 MICROGRAMS PER LITER)

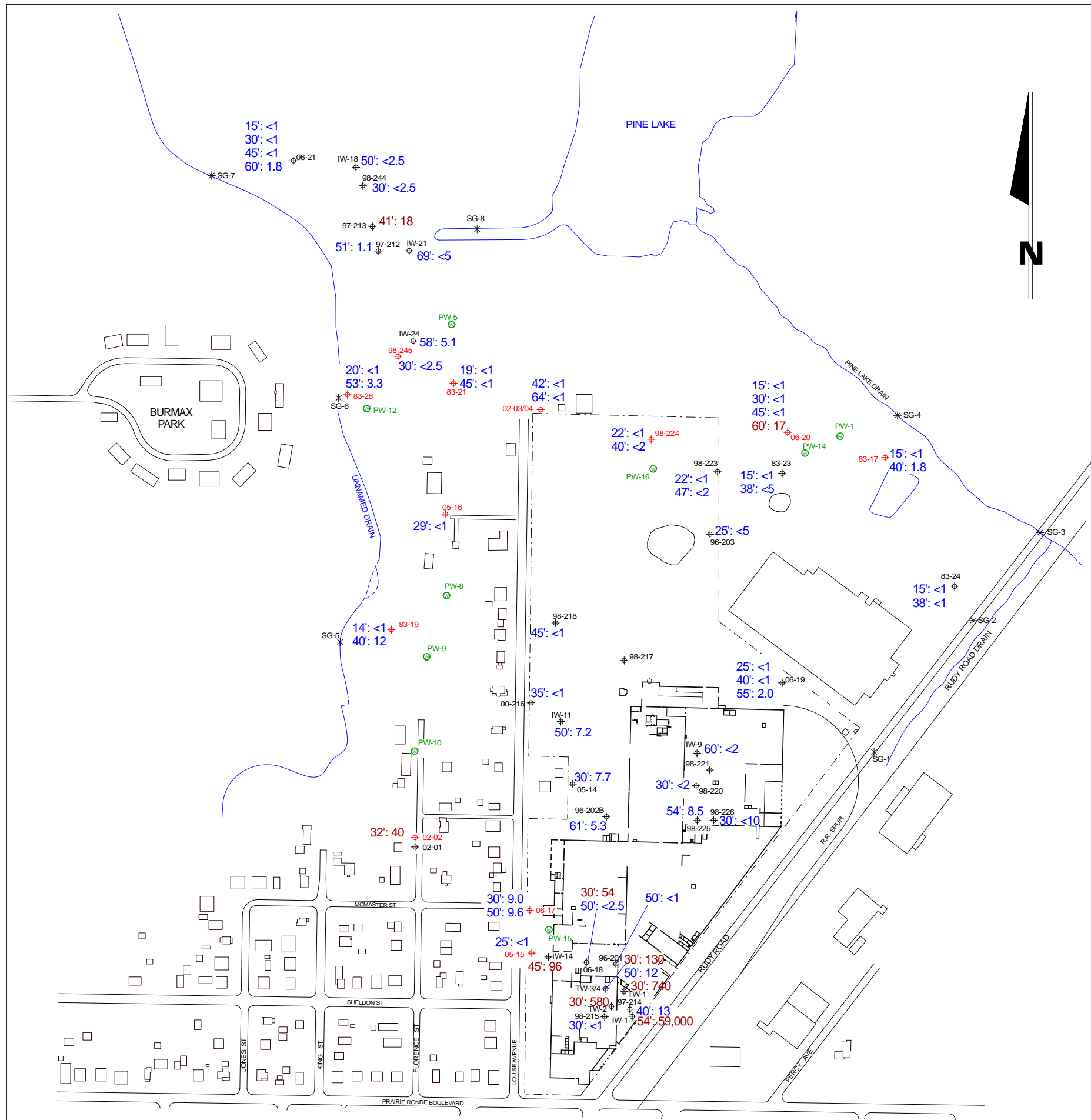


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**FOURTH QUARTER 2014
 MONITORING REPORT**

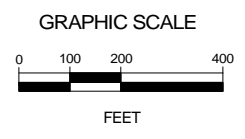
FOR:
PRAIRIE RONDE REALTY COMPANY
 415 East Prairie Ronde, Dowagiac, Michigan 49047

Figure 4:
**CIS-1,2-DICHLOROETHENE IN WELLS
 SCREENED ABOVE THE AQUITARD LAYER**



LEGEND:

- PRAIRIE RONDE REALTY PROPERTY LINE
- PURGE WELLS
- * STAFF GAUGE
- ⊕ MONITORING WELL LOCATION: SOME LOCATIONS HAVE MULTIPLE WELLS
- 30': 100
50': <1
VINYL CHLORIDE CONCENTRATION, MICROGRAMS PER LITER; INDICATED DEPTHS ARE TO BOTTOM OF WELL SCREEN; <= LESS THAN
- 83-17 ⊕ GROUNDWATER-SURFACE WATER INTERFACE (GSI) COMPLIANCE MONITORING WELL
- 25': 380 EXCEEDS GSI CRITERION FOR VINYL CHLORIDE (13 MICROGRAMS PER LITER)

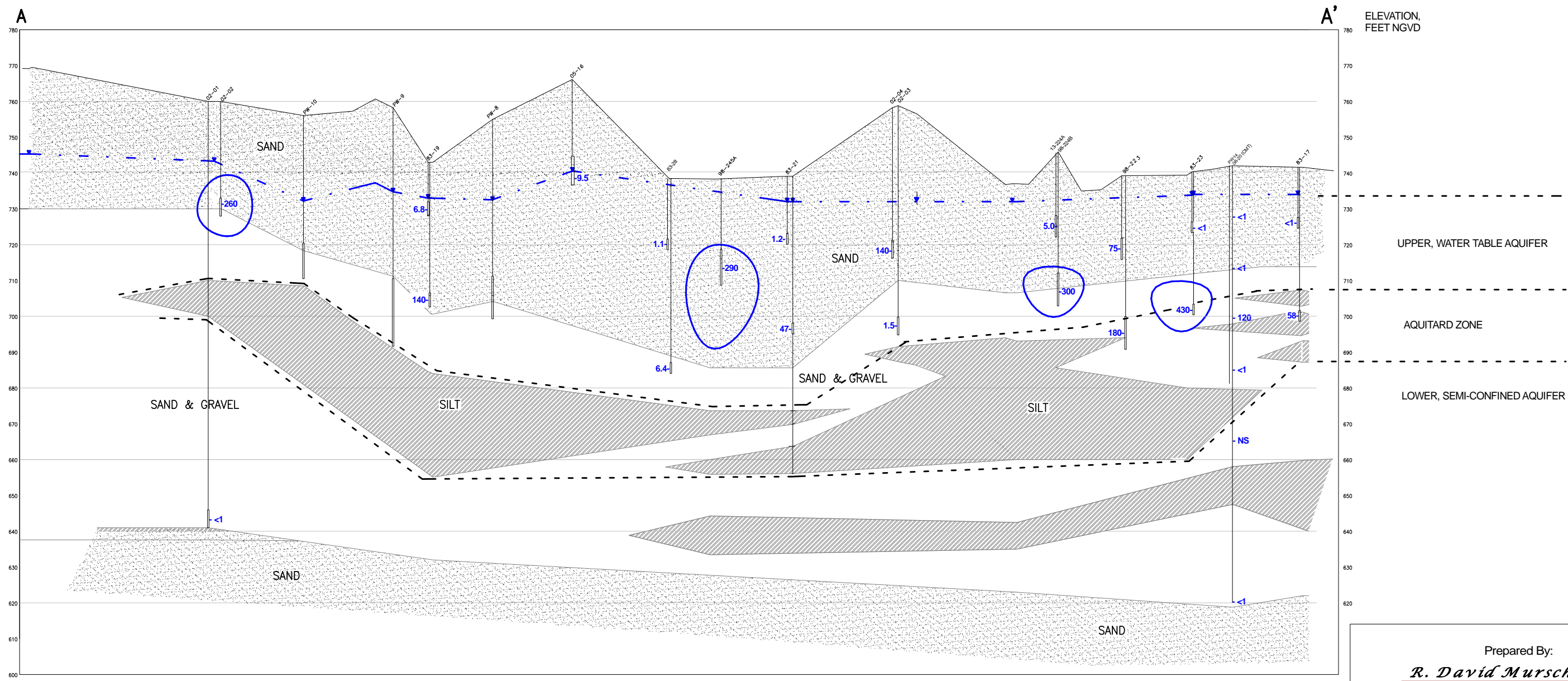


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**FOURTH QUARTER 2014
MONITORING REPORT**

FOR:
PRAIRIE RONDE REALTY COMPANY
415 East Prairie Ronde, Dowagiac, Michigan 49047

Figure 5:
**VINYL CHLORIDE IN WELLS
SCREENED ABOVE THE AQUITARD LAYER**



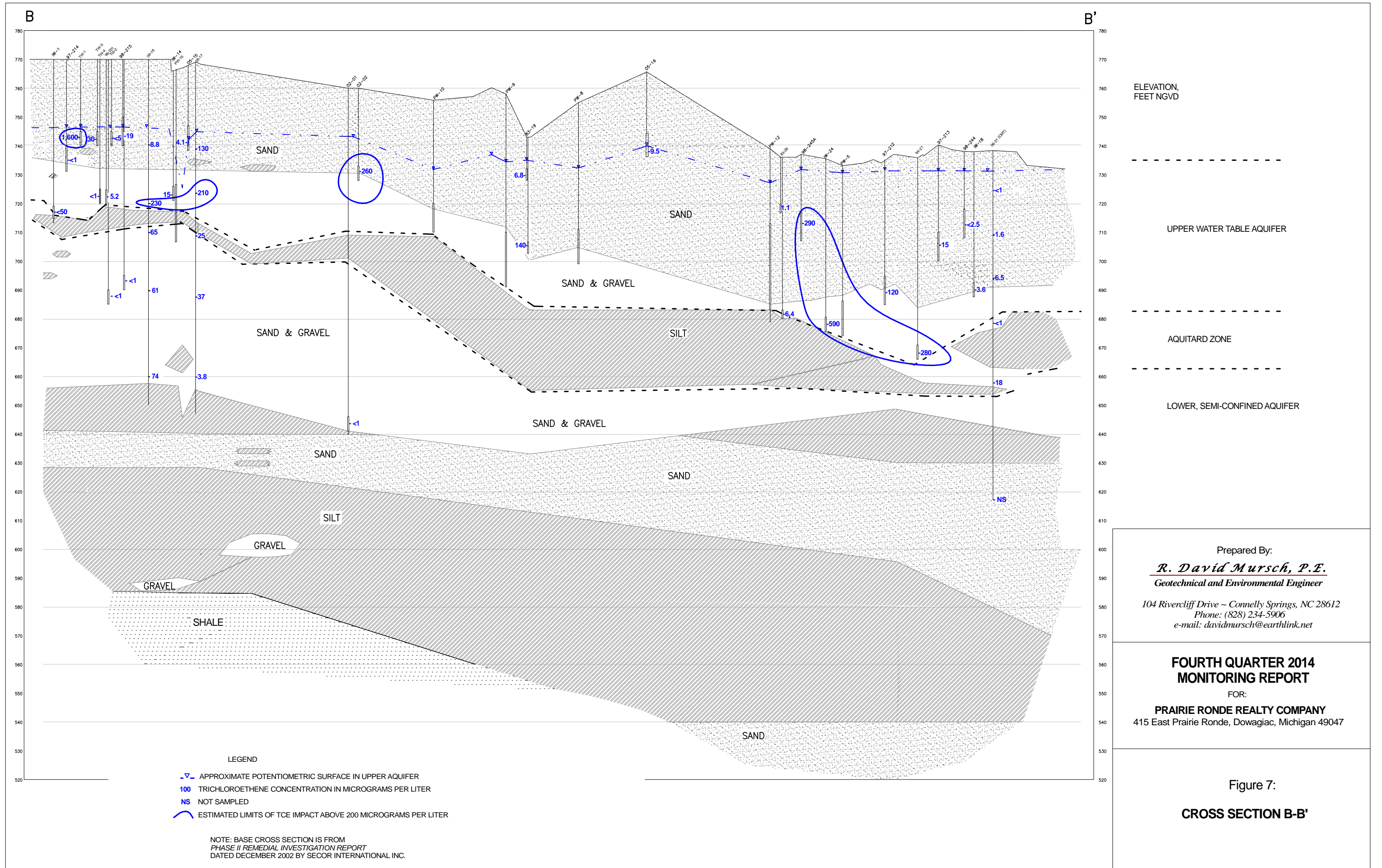
- LEGEND
- - - - - APPROXIMATE HISTORICAL POTENTIOMETRIC SURFACE IN UPPER AQUIFER
 - 100 TRICHLOROETHENE CONCENTRATION IN MICROGRAMS PER LITER
 - ESTIMATED LIMITS OF TCE IMPACT ABOVE 200 MICROGRAMS PER LITER

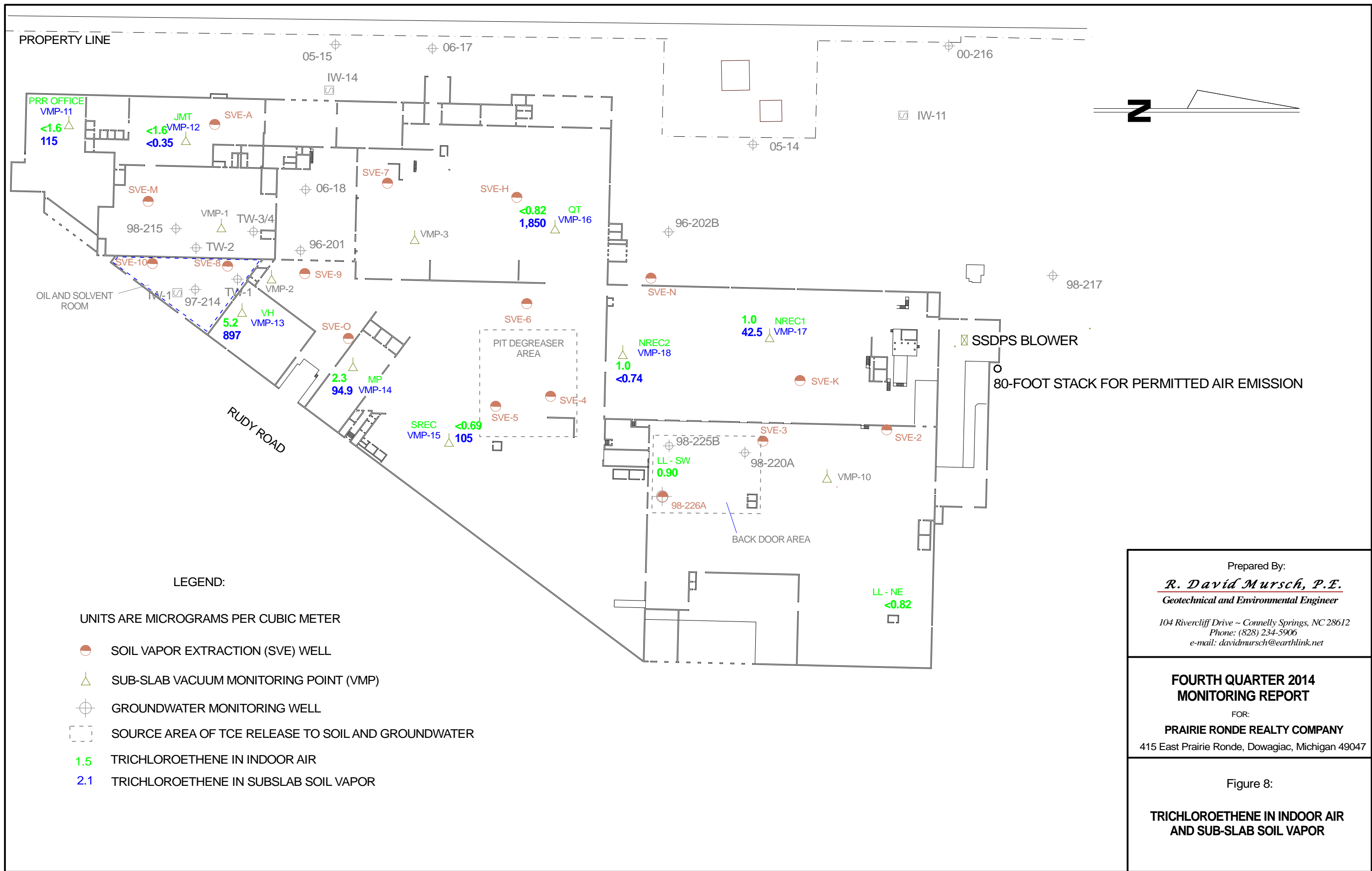
NOTE: BASE CROSS SECTION IS FROM PHASE II REMEDIAL INVESTIGATION REPORT DATED DECEMBER 2002 BY SECOR INTERNATIONAL INC.

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**FOURTH QUARTER 2014
 MONITORING REPORT**
 FOR:
PRAIRIE RONDE REALTY COMPANY
 415 East Prairie Ronde, Dowagiac, Michigan 49047

Figure 6:
CROSS SECTION A-A'





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**FOURTH QUARTER 2014
 MONITORING REPORT**
 FOR:
PRAIRIE RONDE REALTY COMPANY
 415 East Prairie Ronde, Dowagiac, Michigan 49047

Figure 8:
**TRICHLOROETHENE IN INDOOR AIR
 AND SUB-SLAB SOIL VAPOR**

FIGURE 9: TRICHLOROETHENE CONCENTRATION TIME TRENDS - OIL STORAGE ROOM AREA

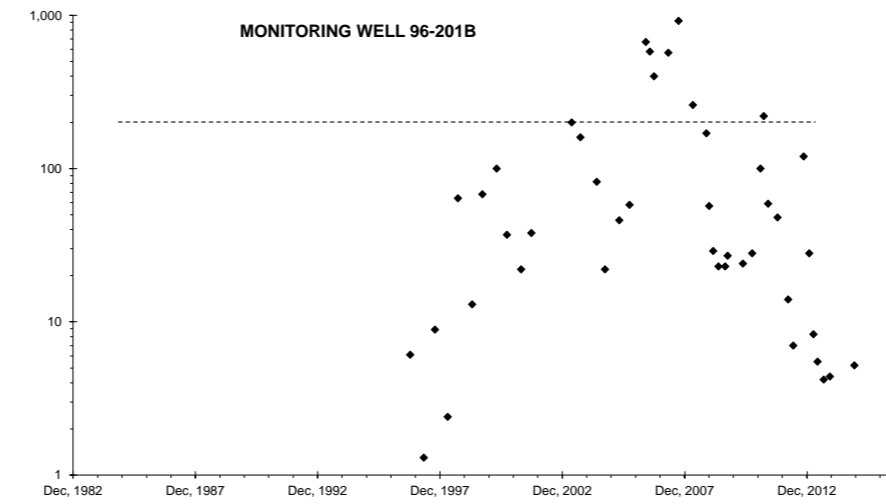
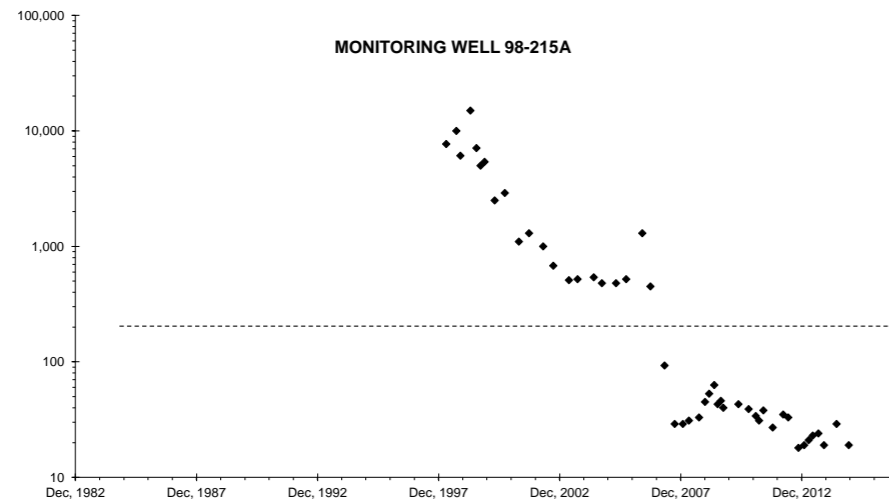
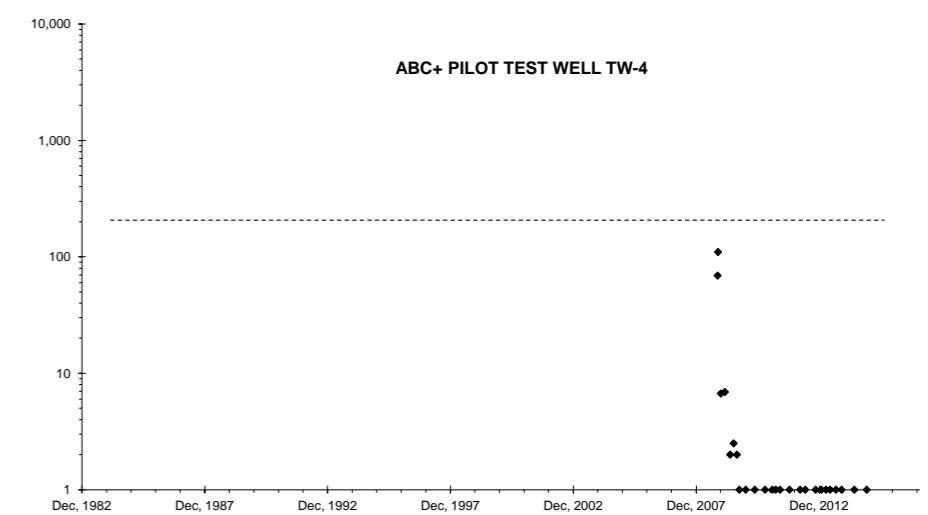
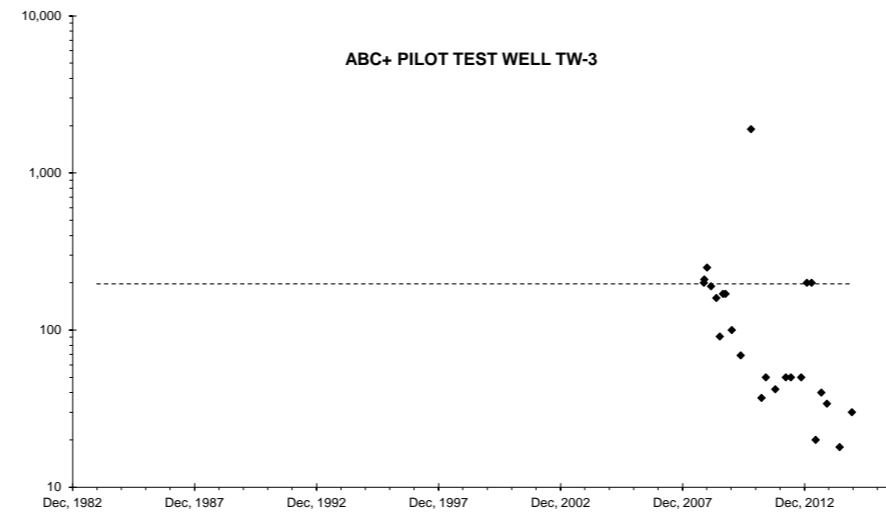
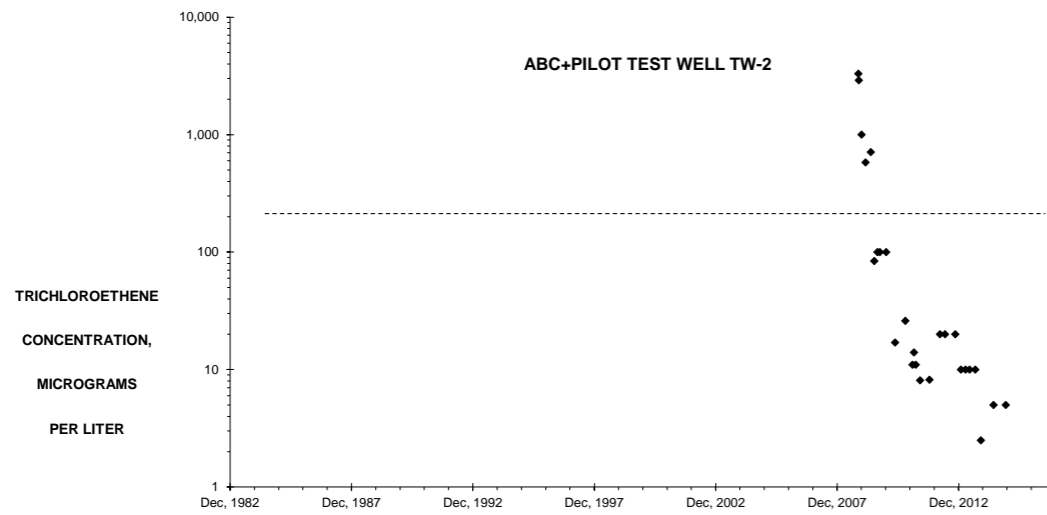
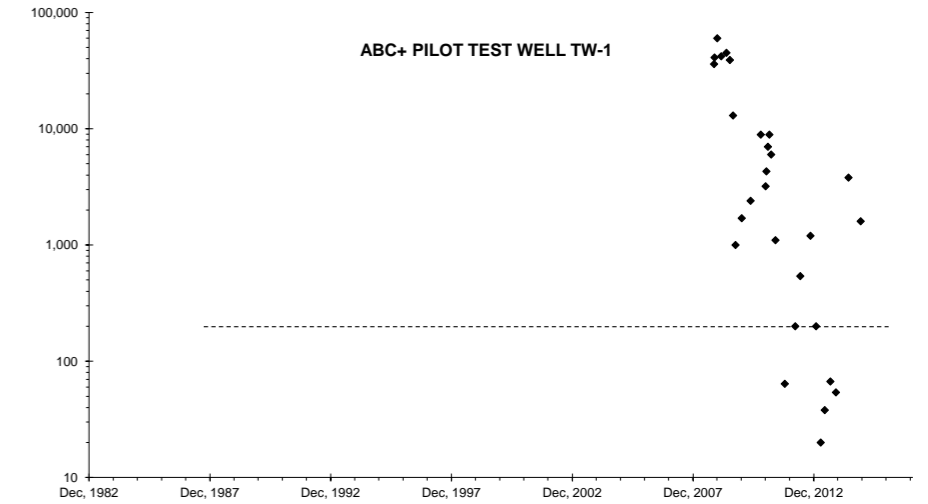
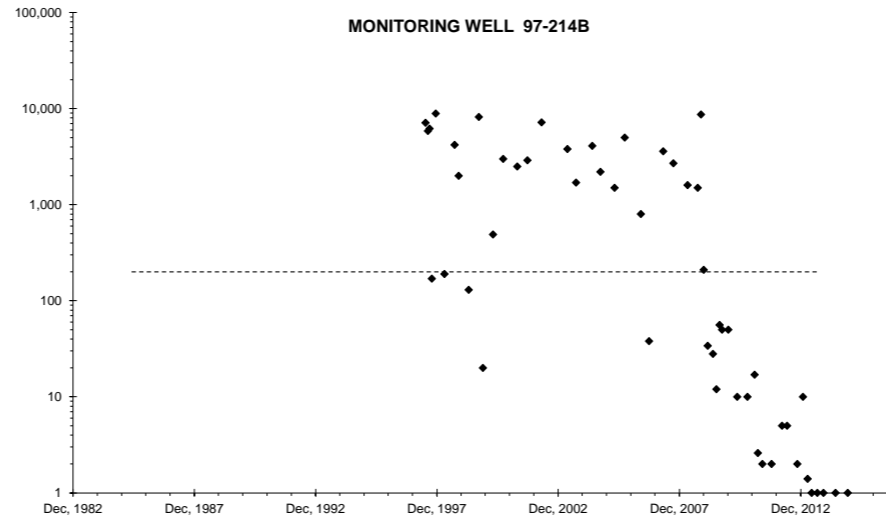
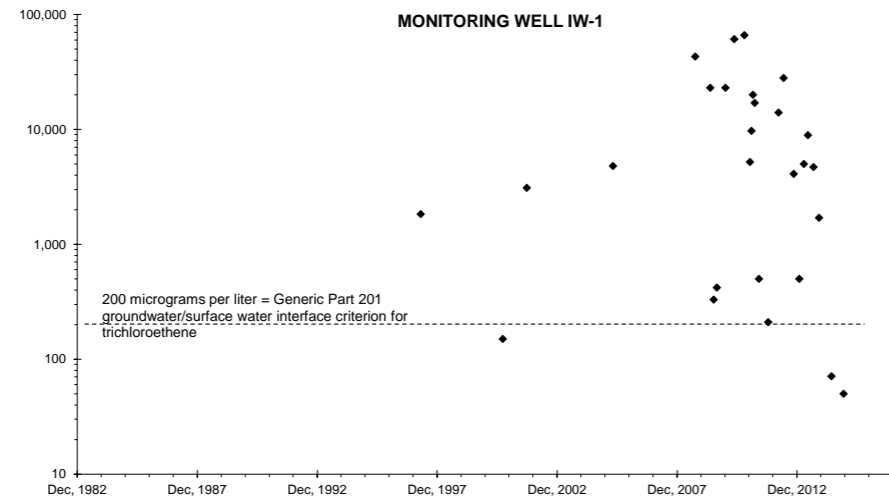


FIGURE 10: TRICHLOROETHENE CONCENTRATION TIME TRENDS - WEST OF OIL STORAGE ROOM AREA

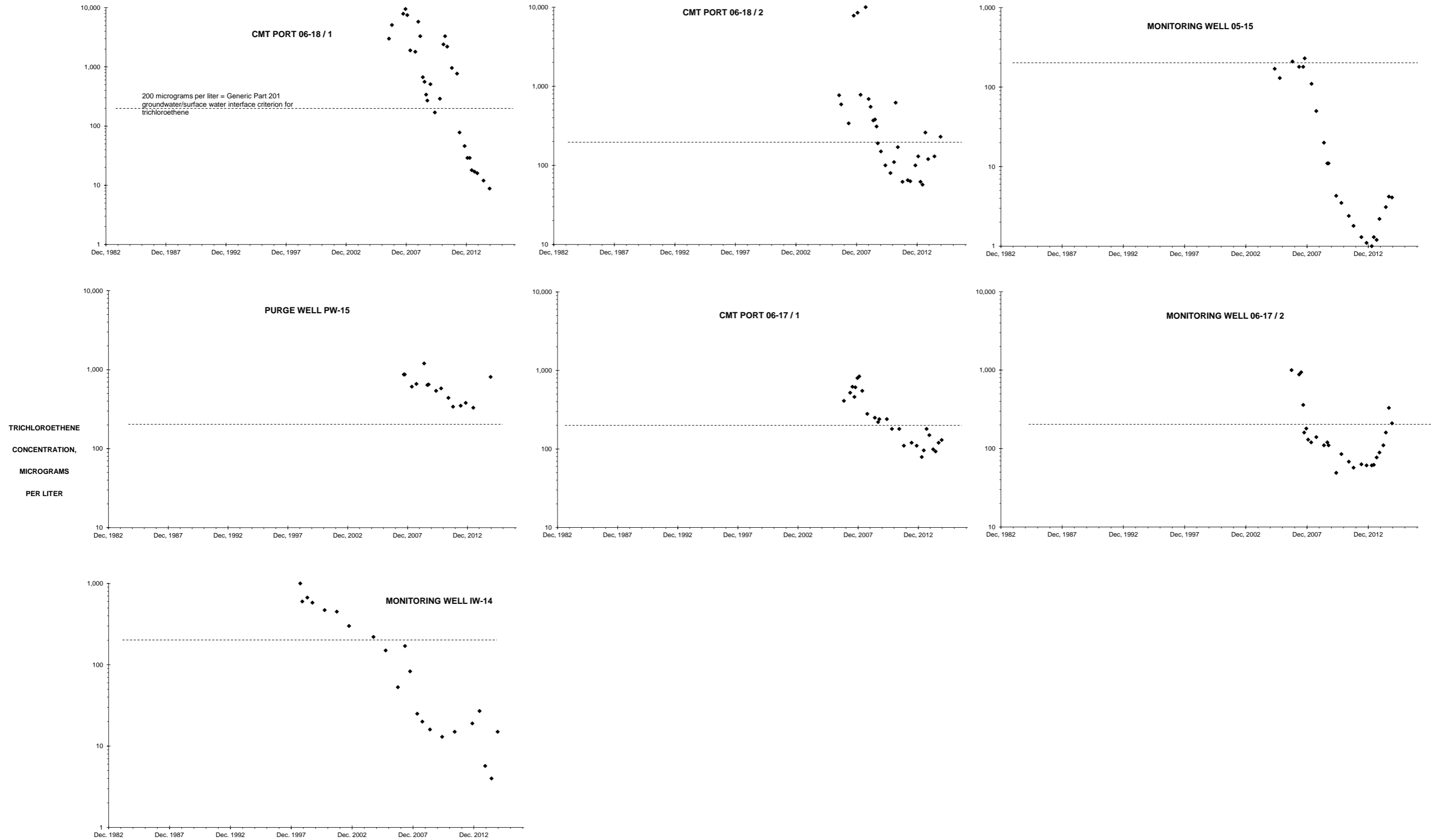


FIGURE 11: TRICHLOROETHENE CONCENTRATION TIME TRENDS - NORTH END OF BUILDING

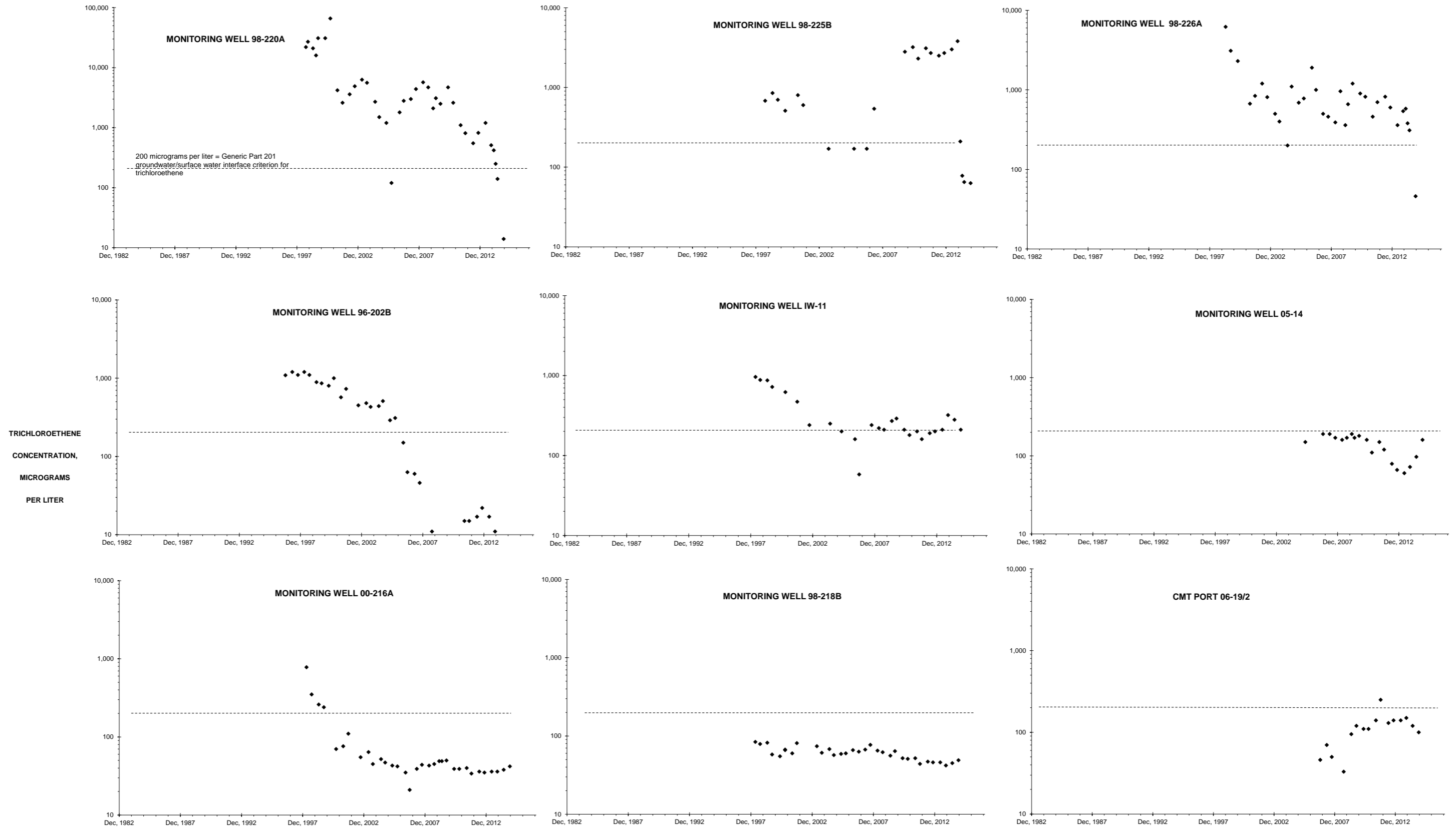
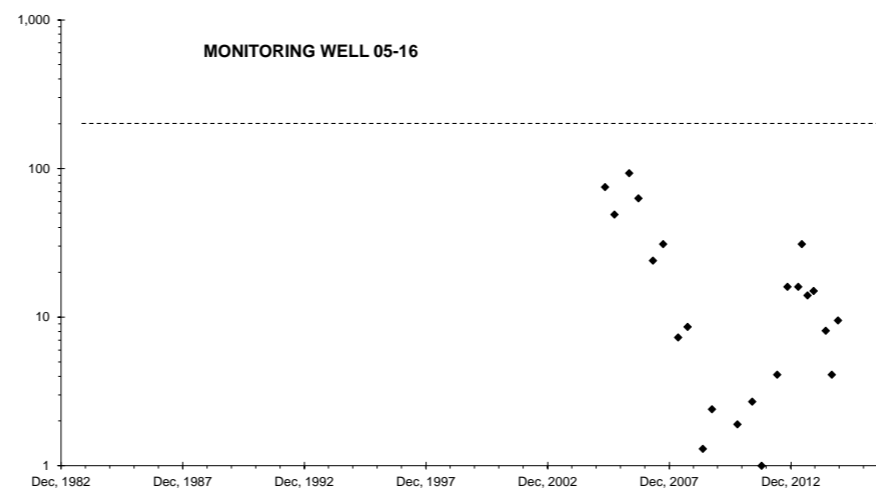
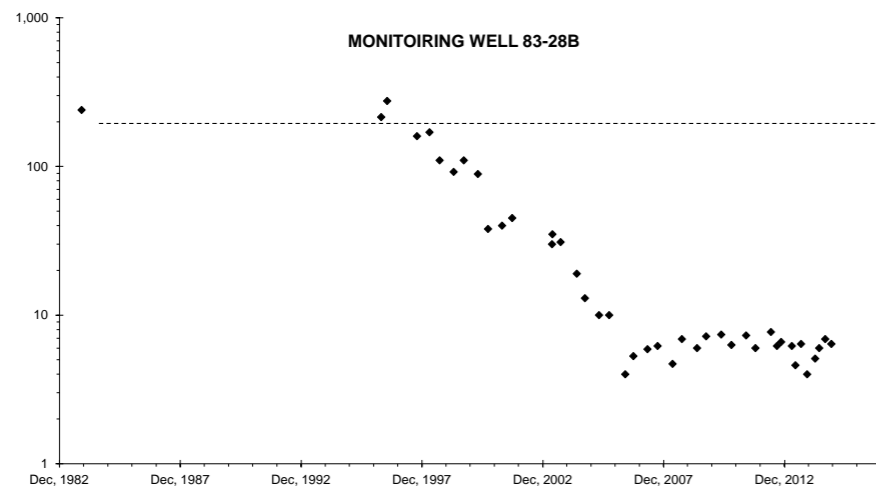
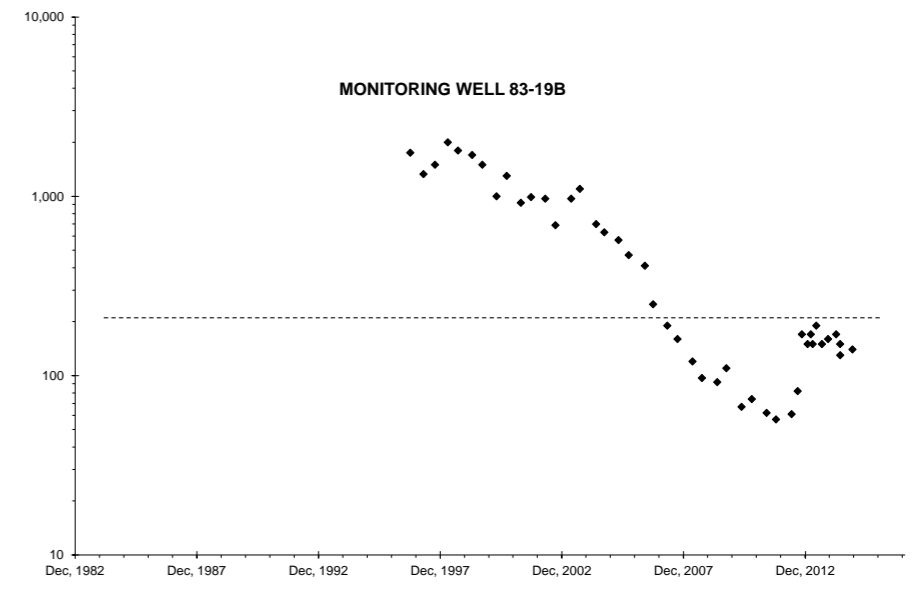
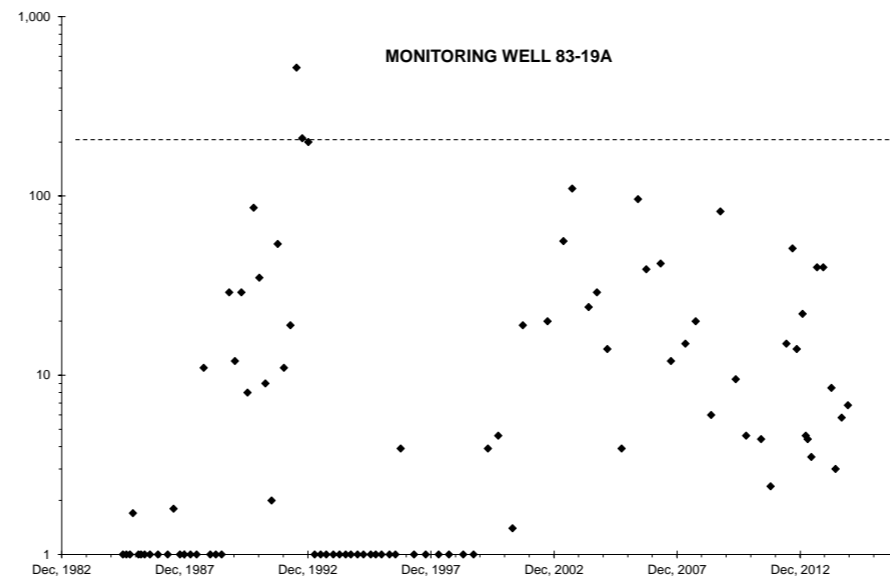
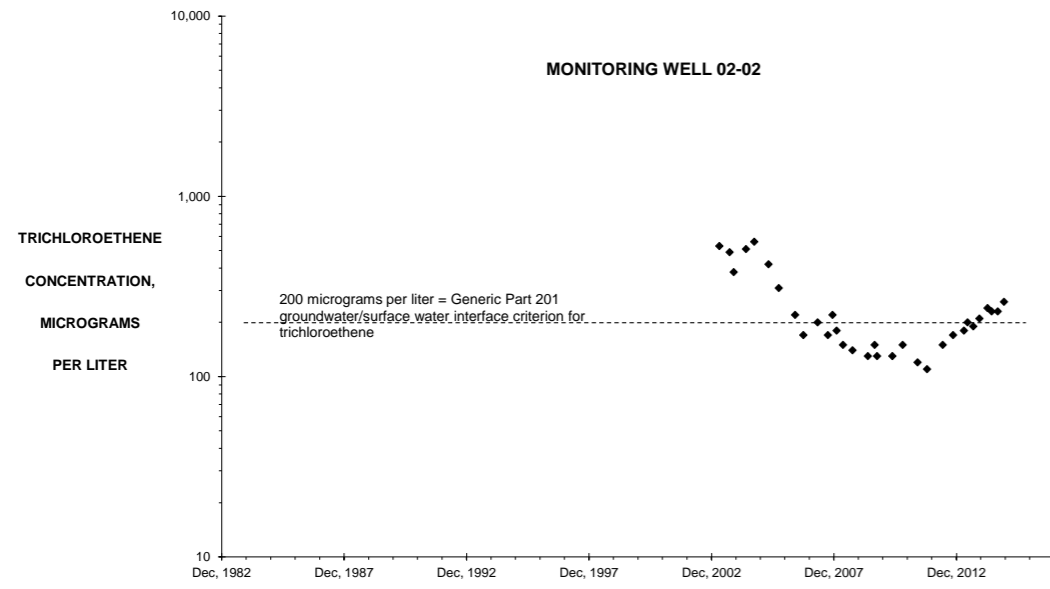


FIGURE 12: TRICHLOROETHENE CONCENTRATION TIME TRENDS - WEST OF LOUISE AVENUE



US EPA ARCHIVE DOCUMENT

FIGURE 13: TRICHLOROETHENE CONCENTRATION TIME TRENDS - NORTH SIDE / WALKER'S PROPERTY

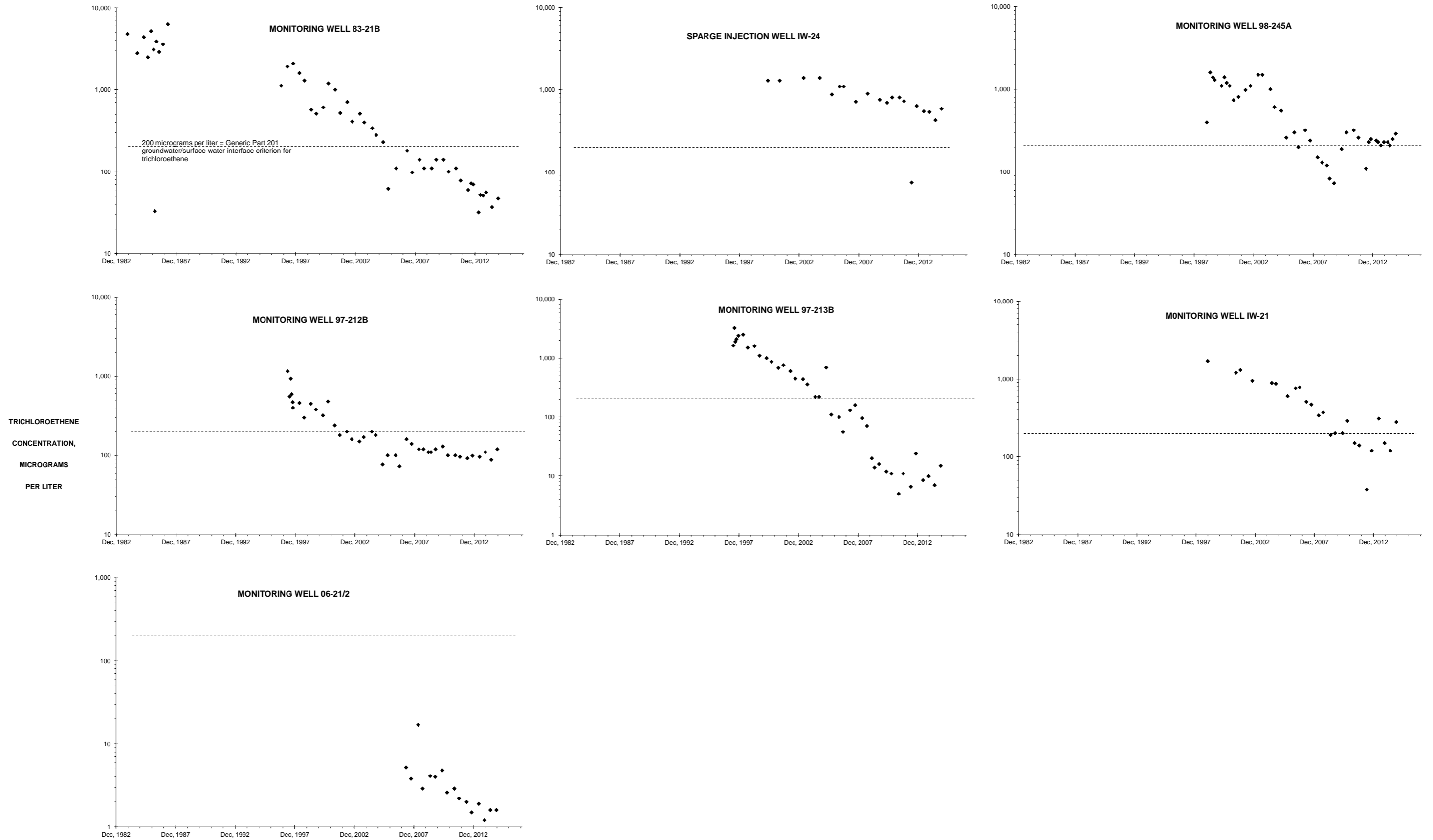


FIGURE 14: TRICHLOROETHENE CONCENTRATION TIME TRENDS - NORTH END OF PROPERTY / CREATIVE FOAM

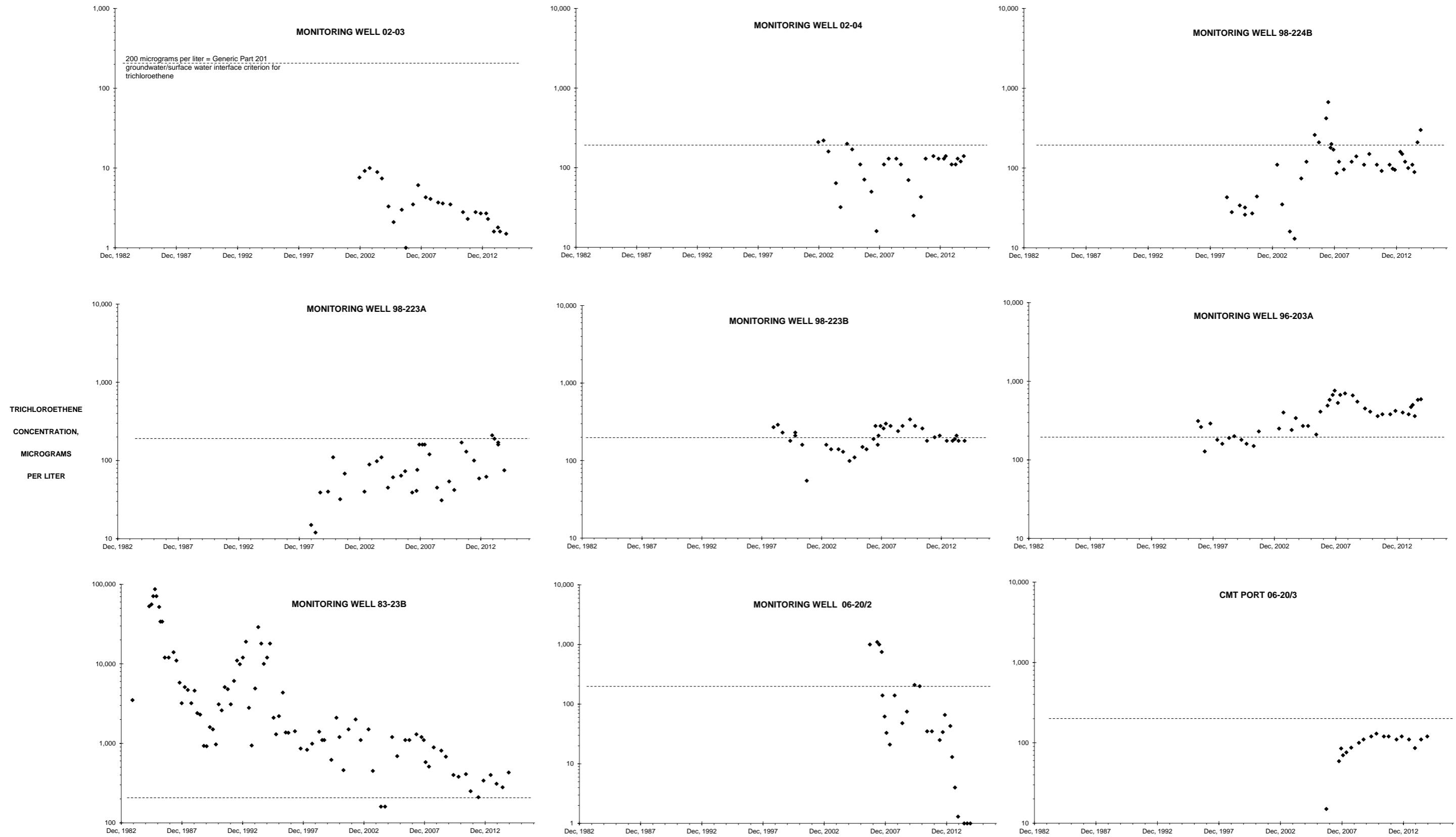
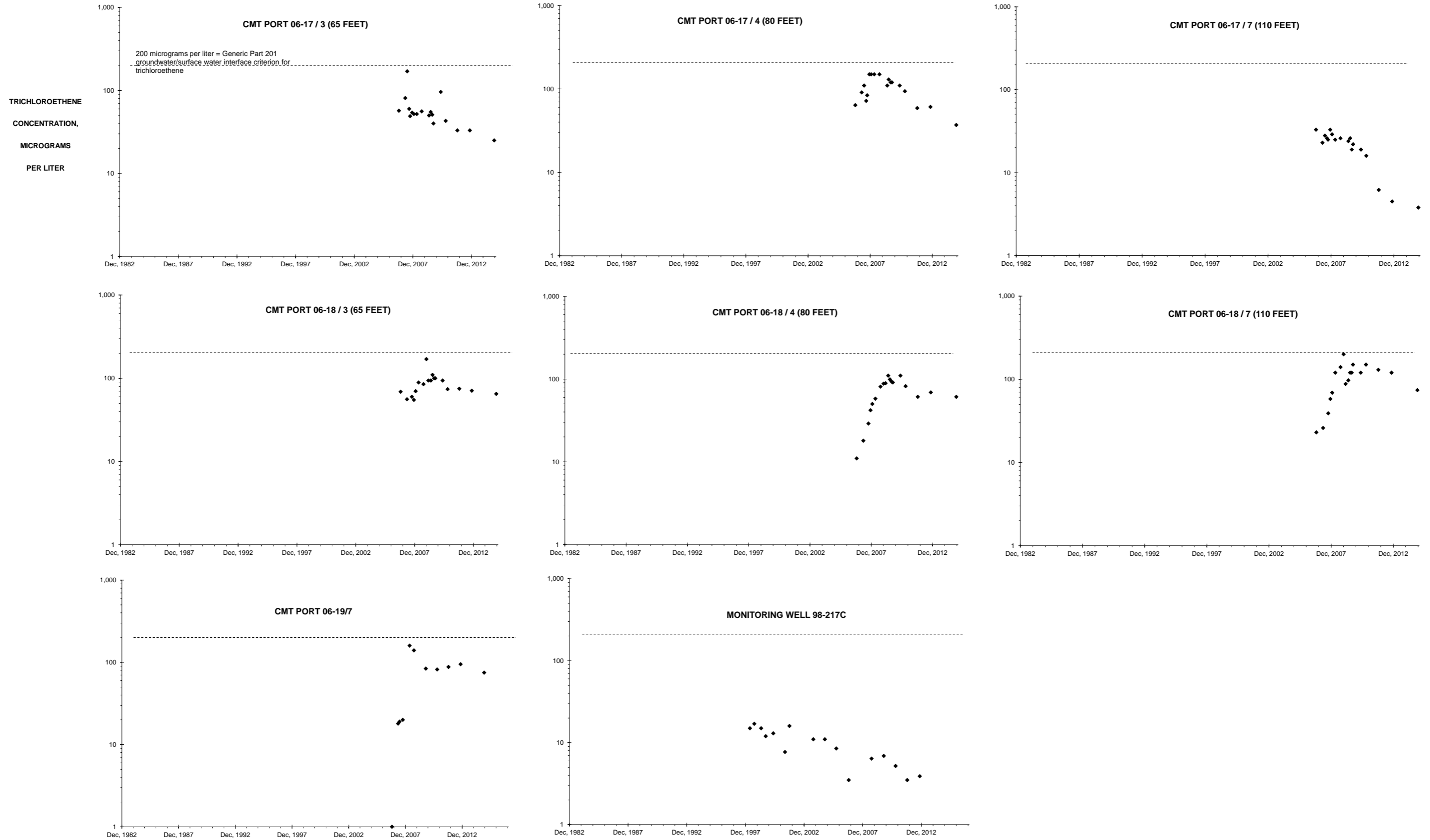


FIGURE 15: TRICHLOROETHENE CONCENTRATION TIME TRENDS - DEEP AQUIFER WELLS





Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

December 2, 2014

Gary Wood
TriMatrix
5560 Corporate Exchange Court
Grand Rapids, MI 49512
USA

RE: **1411065**

Microseeps Workorder: 14076

Dear Gary Wood:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, November 18, 2014. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robbin Robl 12/02/2014, *rw*
rrobl@microseeps.com 12-3-14

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages 9

Report ID: 14076 - 595140

Page 1 of 7



CERTIFICATE OF ANALYSIS

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

| | |
|--------------------------|--|
| Accreditor: | Pennsylvania Department of Environmental Protection, Bureau of Laboratories |
| Accreditation ID: | 02-00538 |
| Scope: | NELAP Non-Potable Water and Solid & Hazardous Waste |
| Accreditor: | South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification |
| Accreditation ID: | 89009003 |
| Scope: | Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA) |
| Accreditor: | NELAP: New Jersey, Department of Environmental Protection |
| Accreditation ID: | PA026 |
| Scope: | Non-Potable Water; Solid and Chemical Materials |
| Accreditor: | NELAP: New York, Department of Health Wadsworth Center |
| Accreditation ID: | 11815 |
| Scope: | Non-Potable Water; Solid and Hazardous Waste |
| Accreditor: | State of Connecticut, Department of Public Health, Division of Environmental Health |
| Accreditation ID: | PH-0263 |
| Scope: | Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA) |
| Accreditor: | NELAP: Texas, Commission on Environmental Quality |
| Accreditation ID: | T104704453-09-TX |
| Scope: | Non-Potable Water |
| Accreditor: | State of New Hampshire |
| Accreditation ID: | 299409 |
| Scope: | Non-potable water |
| Accreditor: | State of Georgia |
| Accreditation ID: | Chapter 391-3-26 |
| Scope: | As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC). |



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Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

SAMPLE SUMMARY

Workorder: 14076 1411065

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-----------|-----------|--------|-----------------|------------------|
| 140760001 | PW-15 | Water | 11/2/2014 10:00 | 11/18/2014 12:00 |



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ANALYTICAL RESULTS

Workorder: 14076 1411065

Lab ID: 140760001

Date Received: 11/18/2014 12:00 Matrix: Water

Sample ID: PW-15

Date Collected: 11/2/2014 10:00

| Parameters | Results | Units | PQL | MDL | DF | Prepared | By | Analyzed | By | Qual |
|---|---------|-------|-----|------|----|----------|----|------------------|----|------|
| EDonors - MICR | | | | | | | | | | |
| Analysis Desc: AM21G Analytical Method: AM21G | | | | | | | | | | |
| Acetic Acid | <5.0 | mg/l | 5.0 | 0.81 | 1 | | | 11/19/2014 19:10 | BW | |
| Propionic Acid | <5.0 | mg/l | 5.0 | 0.66 | 1 | | | 11/19/2014 19:10 | BW | |
| Pyruvic Acid | <10 | mg/l | 10 | 0.77 | 1 | | | 11/19/2014 19:10 | BW | |
| Butyric Acid | <5.0 | mg/l | 5.0 | 0.70 | 1 | | | 11/19/2014 19:10 | BW | |
| Lactic Acid | <25 | mg/l | 25 | 2.5 | 1 | | | 11/19/2014 19:10 | BW | |



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ANALYTICAL RESULTS QUALIFIERS

Workorder: 14076 1411065

DEFINITIONS/QUALIFIERS

- Disclaimer :** The Pennsylvania Department of Environmental Protection (PADEP) has decided to no longer recognize analyses that do not produce data for primary compliance, for NELAP accreditation. The methods affected by this decision are AM20GAX, AM21G, SW846 7199 and AM4.02. The laboratory shall continue to administer the NELAP/TNI standard requirements in the performance of these methods.
- MDL** Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
- PQL** Practical Quantitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
- ND** Not detected at or above reporting limit.
- DF** Dilution Factor.
- S** Surrogate.
- RPD** Relative Percent Difference.
- % Rec** Percent Recovery.
- U** Indicates the compound was analyzed for, but not detected at or above the noted concentration.
- J** Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).



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QUALITY CONTROL DATA

Workorder: 14076 1411065

QC Batch: EDON/2329 Analysis Method: AM21G
 QC Batch Method: AM21G
 Associated Lab Samples: 140760001

METHOD BLANK: 31779

| Parameter | Units | Blank Result | Reporting Limit Qualifiers |
|----------------|-------|--------------|----------------------------|
| EDonors | | | |
| Acetic Acid | mg/l | <5.0 | 5.0 |
| Propionic Acid | mg/l | <5.0 | 5.0 |
| Pyruvic Acid | mg/l | <10 | 10 |
| Butyric Acid | mg/l | <5.0 | 5.0 |
| Lactic Acid | mg/l | <25 | 25 |

LABORATORY CONTROL SAMPLE: 31780

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits Qualifiers |
|----------------|-------|-------------|------------|-----------|-------------------------|
| EDonors | | | | | |
| Acetic Acid | mg/l | 100 | 110 | 108 | 70-130 |
| Propionic Acid | mg/l | 100 | 110 | 110 | 70-130 |
| Pyruvic Acid | mg/l | 100 | 100 | 103 | 70-130 |
| Butyric Acid | mg/l | 100 | 110 | 109 | 70-130 |
| Lactic Acid | mg/l | 100 | 99 | 99 | 70-130 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 31781 31782 Original: 139750001

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD | Qualifiers |
|----------------|-------|-----------------|-------------|-----------|------------|----------|-----------|-------------|-----|---------|------------|
| EDonors | | | | | | | | | | | |
| Acetic Acid | mg/l | 0 | 100 | 99 | 100 | 99 | 102 | 70-130 | 3 | 20 | |
| Propionic Acid | mg/l | 0 | 100 | 100 | 100 | 103 | 106 | 70-130 | 2.9 | 20 | |
| Pyruvic Acid | mg/l | 0 | 100 | 97 | 100 | 97 | 100 | 70-130 | 3 | 20 | |
| Butyric Acid | mg/l | 0 | 100 | 100 | 100 | 102 | 105 | 70-130 | 2.9 | 20 | |
| Lactic Acid | mg/l | 1.7 | 100 | 96 | 93 | 94 | 91 | 70-130 | 3.2 | 20 | |



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Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 14076 1411065

| Lab ID | Sample ID | Prep Method | Prep Batch | Analysis Method | Analysis Batch |
|-----------|-----------|-------------|------------|-----------------|----------------|
| 140760001 | PW-15 | | | AM21G | EDON/2329 |



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5560 Corporate Exchange Court SE Grand Rapids, MI 49512
 Phone (616) 975-4500 Fax (616) 942-7463
 www.trimatrixlabs.com

Chain of Custody Record

COC No.

14076

Analyses Requested

| Analysis | Requested |
|----------|-----------|
| A | |
| B | |
| C | |
| D | |
| E | |
| F | |
| G | |
| H | |

- ← PRESERVATIVES
- A NONE pH<7
 - B HNO₃ pH<2
 - C H₂SO₄ pH<2
 - D 1+1 HCl pH<2
 - E NaOH pH>12
 - F ZnAc/NaOH pH>9
 - G MeOH
 - H Other (note below)

For Lab Use Only

| | |
|------------------------------|--|
| Cart | |
| VOA Rack/Tray | Client Name TriMatrix Laboratories, Inc. |
| Receipt Log No. | Project Name 1411065 |
| Project Chemist Gary Wood | Address 5560 Corporate Exchange Court SE Grand Rapids, Michigan 49512 |
| Work Order No. | Client Project No. / P.O. No. 1411065 GLW |
| | Invoice To <input checked="" type="radio"/> Client <input type="radio"/> Other (comments) |
| | Contact/Report To Gary Wood |
| | Phone 616-975-4500 |
| | Fax 616-942-7463 |

| Schedule | Matrix Code | Laboratory Sample Number | Sample ID | Cooler ID | Sample Date | Sample Time | Comp / Grab | Matrix | Number of Containers Submitted | | | | Total | Sample Comments | |
|----------|-------------|--------------------------|-----------|-----------|-------------|-------------|-------------|--------|--------------------------------|---|---|---|-------|-----------------|------------|
| | | | | | | | | | 0 | 1 | 2 | 3 | | | |
| | WG | | PW-15 | | 11/2/14 | 10:00 | Grab | GW | 2 | | | | | 2 | 40 ml vial |
| | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |

Sampled By (print) _____ How Shipped? _____ Comments Please See PO for analysis and reporting instructions. Batch QA/QC Sufficient.

Sampler's Signature _____ Tracking No. _____

| | | | | | | | | | |
|---------|------------------------|------------------|--------------|------------------------|------|------|----------------------------|------|------|
| Company | 1. Relinquished By | Date 11.17.14 | Time 1335 | 2. Relinquished By | Date | Time | 3. Relinquished By | Date | Time |
| | 1. Received By | Date 11.18.14 | Time 1200 | 2. Received By | Date | Time | 3. Received For Lab By | Date | Time |

2.8°C

Cooler Receipt Form

Client Name: Tri Matrix Project: 1411065 Lab Work Order: 14076

A. Shipping/Container Information (circle appropriate response)

Courier: FedEx UPS USPS Client Other: _____ Air bill Present: Yes No

Tracking Number: 5794 1563 9589

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Cooler/Box Packing Material: Bubble Wrap Absorbent Foam Other: _____

Type of Ice: Wet Blue None Ice Intact: Yes Melted

Cooler Temperature: 2.8°C Radiation Screened: Yes No Chain of Custody Present: Yes No

Comments: _____

B. Laboratory Assignment/Log-in (check appropriate response)

| | YES | NO | N/A | Comment Reference non-Conforman |
|--|-----|----|-----|------------------------------------|
| Chain of Custody properly filled out | ✓ | | | |
| Chain of Custody relinquished | ✓ | | | |
| Sampler Name & Signature on COC | | ✓ | | |
| Containers intact | ✓ | | | |
| Were samples in separate bags | | | ✓ | |
| Sample container labels match COC Sample name/date and time collected | ✓ | | | |
| Sufficient volume provided | ✓ | | | |
| Microseeps containers used | | ✓ | | |
| Are containers properly preserved for the requested testing? (as labeled) | | | ✓ | |
| If an unknown preservation state, were containers checked? Exception: VOA's coliform | | | ✓ | If yes, see pH form. |
| Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container? | | | ✓ | |

Comments: _____

Cooler contents examined/received by: LY Date: 11/18/14

Project Manager Review: RL Date: 11/18/14

R. David Mursch, P.E.
Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 davidmursch@earthlink.net (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: FW-1
 Date: 11-1-14
 1145

WELL INFORMATION:

Total well depth (feet): 54 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): _____ Volume factor (gallons per foot): 0.01 0.16 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 5
 Pump intake depth (feet): 52 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: PARK GREEN

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 1125 | 0 | — | 0 | — | 7.22 | 801 | 58 | — | 12.7 |
| 1128 | 3 | — | 1,500 | 500 | 7.18 | 1150 | 50 | — | 13.0 |
| 1131 | 3 | — | 2,000 | 500 | 7.10 | 1190 | 45 | — | 13.0 |
| 1134 | 3 | — | 4,400 | 465 | 7.15 | 1350 | 47 | — | 13.0 |
| 1137 | 3 | — | 5,800 | 465 | 7.14 | 1380 | 48 | — | 13.0 |
| 1140 | 3 | — | 7,300 | 500 | 7.17 | 1350 | 45 | — | 13.0 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|-----------------------------------|--------------|--------------------------------|-------------------------|
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1,000 Milliliter Glass | 1 | None | |

GENERAL

Weather: clear, 32^o

Sample Handling/Shipement: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

R. David Mursch, P.E.

Geotechnical and Environmental Engineer

104 Rivercliff Drive Connally Springs, NC 28612
davidmursch@earthlink.net (828) 234-3906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty

Location: Dowagiac, MI

Sampling Point: TW-1

Date: 11-1-11

WELL INFORMATION:

Total well depth (feet): 30
- Depth to water in well (feet): 22.26
= Water column (feet):
Screen length (feet): 5

Well diameter (inches): 1 2 4 CMT
Volume factor (gallons per foot): 0.01 0.16 0.65 Port

Pump intake depth (feet): 28 All depths are from top of well riser.

Purge Method and Materials: Low-flow purging with peristaltic pump

Purge Water Color: gray

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1026 | 0 | 22.50 | 0 | - | 7.21 | 1240 | 61 | - | 13.7 |
| 1029 | 3 | 22.49 | 900 | 300 | 7.22 | 1240 | 27 | - | 13.8 |
| 1032 | 3 | 22.49 | 1,600 | 235 | 7.21 | 1260 | 16 | - | 13.8 |
| 1035 | 3 | - | 2,400 | 265 | 7.19 | 1240 | 8 | - | 13.8 |
| 1038 | 3 | - | 3,100 | 235 | 7.18 | 1250 | 6 | - | 13.8 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

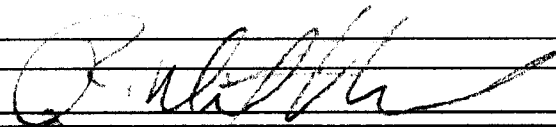
| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|-----------------------------------|--------|--------------------------------|-------------------------|
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1,000 Milliliter Glass | 1 | None | |

GENERAL

Weather: clear, 20°

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments:

Sampler(s)/Signature: 

R. David Mursch, P.E.

Geotechnical and Environmental Engineer

104 Rivercliff Drive Connelly Springs, NC 28612

davidmursch@earthlink.net (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty

Location: Dowagiac, MI

Sampling Point: TW-2

Date: 10-31-14 / 1500

WELL INFORMATION:

Total well depth (feet): 30 Well diameter (inches): 10 2 4 CMT
- Depth to water in well (feet): 22.50 Volume factor (gallons per foot): 0.01 0.16 0.65 Port
= Water column (feet):
Screen length (feet):

Pump intake depth (feet): 28 All depths are from top of well riser.

Purge Method and Materials: Low-flow purging with peristaltic pump

Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

Table with 10 columns: Time, Elapsed Time, Water Depth, Total Volume Purged, Purge Rate, pH, Conductivity, Turbidity, Dissolved oxygen, Temperature. Includes data rows for times 1745, 1748, 1751, 1754, 1757 and a Criteria Range row.

SAMPLES OBTAINED

Table with 4 columns: CONTAINER TYPE AND VOLUME, NUMBER, PRESERVATIVE, OTHER (FILTERING, ETC.). Includes rows for 40 - Milliliter VOA, 500 Milliliter HDPE, and 1,000 Milliliter Class.

GENERAL

Weather: 34° Rain

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments:

Sampler(s)/Signature:

Handwritten signature of R. David Mursch

| | | |
|--|--|---|
| R. David Mursch, P.E. Geotechnical and Environmental Engineer 104 Rivercliff Drive Connelly Springs, NC 28612 davidmursch@earthlink.net (828) 234-5906 | GROUNDWATER FIELD SAMPLING REPORT | Site Name: <u>Prairie Ronde Realty</u> Location: <u>Dowagiac, MI</u> Sampling Point: <u>710-3</u> Date: <u>10-21-14</u> <div style="text-align: right; margin-top: 5px;">1835</div> |
|--|--|---|

| | | |
|--------------------------|---|--|
| WELL INFORMATION: | Total well depth (feet): <u>70</u> - Depth to water in well (feet): <u>22.77</u> = Water column (feet): _____ Screen length (feet): _____ Pump intake depth (feet): <u>40.29</u> All depths are from top of well riser. Purge Method and Materials: <u>Low-flow purging with peristaltic pump</u> Purge Water Color: <u>clear</u> | Well diameter (inches): <u>1</u> 2 4 CMT Volume factor (gallons per foot): <u>0.01</u> 0.16 0.65 Port |
|--------------------------|---|--|

| FIELD MEASUREMENTS | | | | Measuring Equipment: <u>Horiba U-10, SN 404014</u> | | | | | |
|--------------------|--------------|-----------------|-------------------------|---|------|---------------------|----------------|------------------------|----------------|
| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
| 1822 | 0 | 22.88 | 0 | — | 6.98 | 444 | 6 | — | 14.4 |
| 1825 | 3 | 22.87 | 800 | 265 | 7.02 | 452 | 2 | — | 14.4 |
| 1828 | 3 | — | 1500 | 235 | 7.01 | 457 | 1 | — | 14.3 |
| 1831 | 3 | 22.87 | 2300 | 265 | 7.01 | 461 | 0 | — | 14.3 |
| 1834 | 3 | — | 3000 | 235 | 7.01 | 464 | 0 | — | 14.3 |
| | | | | Criteria Range, ±: 0.1 3% 10% 10% | | | | | |

| SAMPLES OBTAINED | | | |
|-----------------------------------|--------------|--------------------------------|-------------------------|
| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1,000 Milliliter Glass | 1 | None | |

| | |
|--|----------------------------|
| GENERAL | Weather: <u>39° Partly</u> |
| Sample Handling/Shipmt: <u>To Trimatrix Laboratories in Grand Rapids, Michigan</u> | |
| Comments: _____ | |
| Sampler(s)/Signature: <u>[Signature]</u> | |

| | | |
|--|--|---|
| R. David Mursch, P.E. Geotechnical and Environmental Engineer 104 Rivercliff Drive Connelly Springs, NC 28612 davidmursch@earthlink.net (828) 234-5906 | GROUNDWATER FIELD SAMPLING REPORT | Site Name: <u>Prairie Ronde Realty</u> Location: <u>Dowagiac, MI</u> Sampling Point: <u>TW-4</u> Date: <u>10-21-14</u> |
|--|--|---|

| | |
|--------------------------|---|
| WELL INFORMATION: | <div style="text-align: right; margin-bottom: 10px;">1900</div> Total well depth (feet): <u>30</u> Well diameter (inches): <u>2</u> <u>4</u> CMT - Depth to water in well (feet): <u>22.74</u> Volume factor (gallons per foot): <u>0.01</u> 0.16 0.65 Port = Water column (feet): _____ Screen length (feet): _____ Pump intake depth (feet): <u>44</u> All depths are from top of well riser. Purge Method and Materials: <u>Low-flow purging with peristaltic pump</u> Purge Water Color: <u>clear</u> |
|--------------------------|---|

| FIELD MEASUREMENTS | | | | Measuring Equipment: <u>Horiba U-10, SN 404014</u> | | | | | |
|--------------------|--------------|-----------------|-------------------------|---|------|---------------------|----------------|------------------------|----------------|
| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
| 1851 | 0 | 22.78 | 0 | — | 6.96 | 604 | 5 | — | 13.8 |
| 1854 | 3 | — | 500 | 265 | 6.98 | 607 | 2 | — | 13.6 |
| 1857 | 3 | 22.78 | 1000 | 265 | 6.98 | 609 | 0 | — | 13.6 |
| 1900 | 3 | — | 2400 | 265 | 6.98 | 609 | 0 | — | 13.5 |
| | | | | Criteria Range, ±: 0.1 3% 10% 10% | | | | | |

| SAMPLES OBTAINED | | | |
|-----------------------------------|--------------|--------------------------------|-------------------------|
| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1,000 Milliliter Glass | 1 | None | |

| | |
|--|--------------------------|
| GENERAL | Weather: <u>39° Rain</u> |
| Sample Handling/Shipment: <u>To Trimatrix Laboratories in Grand Rapids, Michigan</u> | |
| Comments: _____ | |
| Sampler(s)/Signature: <u>[Signature]</u> | |

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Geotechnical and Environmental Engineer

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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty

Location: Dowagiac, MI

Sampling Point: 96-201B

Date: 11-1-14

WELL INFORMATION:

Total well depth (feet): 50 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 22.44 Volume factor (gallons per foot): 0.01 0.18 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 10
 Pump intake depth (feet): 48 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 0947 | 0 | 22.40 | 0 | - | 7.24 | 630 | 0 | - | 12.8 |
| 0951 | 4 | 22.41 | 1100 | 275 | 7.27 | 632 | 0 | - | 12.8 |
| 0954 | 3 | 22.41 | 1900 | 265 | 7.27 | 633 | 0 | - | 12.8 |
| 0957 | 3 | 22.42 | 2700 | 265 | 7.27 | 633 | 0 | - | 12.8 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|----------------------------------|--------------|--------------------------------|-------------------------|
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1000 Milliliter Glass | 1 | None | |

GENERAL

Weather: clear, 70

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. David Mursch

R. David Mursch, P.E.
Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 davidmursch@earthlink.net (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 97-214B
 Date: 11-1-19
1105

WELL INFORMATION:

Total well depth (feet): 40
 - Depth to water in well (feet): 21.77
 = Water column (feet): _____
 Screen length (feet): 10
 Pump intake depth (feet): 35 All depths are from top of well riser.

Well diameter (inches): 1 2 4 CMT
 Volume factor (gallons per foot): 0.01 0.16 0.65 Port

Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear gray

FIELD MEASUREMENTS Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1052 | 0 | 21.90 | 0 | - | 7.23 | 591 | 13 | - | 13.3 |
| 1056 | 3 | 21.90 | 900 | 300 | 7.24 | 574 | 8 | - | 13.3 |
| 1059 | 3 | 21.90 | 1700 | 265 | 7.25 | 579 | 5 | - | 13.3 |
| 1102 | 3 | 21.90 | 2500 | 265 | 7.23 | 619 | 4 | - | 13.3 |
| 1105 | 3 | - | 3300 | 265 | 7.24 | 437 | 5 | - | 13.3 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|-----------------------------------|--------------|--------------------------------|-------------------------|
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1,000 Milliliter Glass | 1 | None | |

GENERAL Weather: clear, 30°

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. Mursch

R. David Mursch, P.E.

Geotechnical and Environmental Engineer

104 Rivercliff Drive Connelly Springs, NC 28612
davidmursch@earthlink.net (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty

Location: Dowagiac, MI

Sampling Point: 98-215A

Date: 10-21-10

WELL INFORMATION:

Total well depth (feet): ~~22.55~~ ³⁰
- Depth to water in well (feet): 22.55 Well diameter (inches): 1 2 4 CMT
= Water column (feet): _____ Volume factor (gallons per foot): 0.01 0.16 0.65 Port
Screen length (feet): 10
Pump intake depth (feet): 25 All depths are from top of well riser.
Purge Method and Materials: Low-flow purging with peristaltic pump
Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|-------|---------------------|----------------|------------------------|----------------|
| 1522 | 0 | 22.57 | 0 | - | 10.45 | 688 | 0 | - | 13.9 |
| 1526 | 3 | 22.57 | 900 | 300 | 6.44 | 694 | 0 | - | 14.0 |
| 1529 | 3 | 22.53 | 1,700 | 265 | 6.52 | 696 | 0 | - | 14.0 |
| 1534 | 5 | - | - | - | 6.53 | 708 | 0 | - | 14.1 |
| 1537 | 3 | - | - | - | 6.57 | 710 | 0 | - | 14.1 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|-----------------------------------|--------------|--------------------------------|-------------------------|
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1,000 Milliliter Glass | 1 | None | |

GENERAL

Weather: 39° Rain

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments:

Sampler(s)/Signature: [Signature]

| | | |
|--|---|---|
| <p>R. David Mursch, P.E. Geotechnical and Environmental Engineer 104 Rivercliff Drive Connelly Springs, NC 28612 davidmursch@earthlink.net (828) 234-5906</p> | <p>GROUNDWATER FIELD SAMPLING REPORT</p> | <p>Site Name: <u>Prairie Ronde Realty</u> Location: <u>Dowagiac, MI</u> Sampling Point: <u>DG-15/1</u> Date: <u>10-21-11</u></p> |
|--|---|---|

| | |
|--|--|
| <p>WELL INFORMATION:</p> <p>Total well depth (feet): <u>30</u> - Depth to water in well (feet): _____ = Water column (feet): _____ Screen length (feet): _____ Pump intake depth (feet): <u>30</u> All depths are from top of well riser. Purge Method and Materials: <u>Low-flow purging with peristaltic pump</u> Purge Water Color: <u>Clear</u></p> | <p style="font-size: 2em; margin: 0;">1605</p> <p>Well diameter (inches): 1 2 4 CMT Volume factor (gallons per foot): 0.01 0.16 0.65 Port</p> |
|--|--|

| FIELD MEASUREMENTS | | | | Measuring Equipment: <u>Horiba U-10, SN 404014</u> | | | | | |
|--------------------|--------------|-----------------|-------------------------|--|------|---------------------|----------------|------------------------|----------------|
| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
| 1555 | 0 | — | 0 | — | 6.65 | 564 | 1 | — | 13.9 |
| 1558 | 3 | — | 1000 | 333 | 6.70 | 561 | 1 | — | 13.9 |
| 1601 | 6 | — | — | — | 6.72 | 559 | 1 | — | 13.8 |
| 1604 | 9 | — | 2800 | 300 | 6.73 | 559 | 1 | — | 13.8 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

| SAMPLES OBTAINED | | | |
|-----------------------------------|--------------|--------------------------------|-------------------------|
| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1,000 Milliliter Glass | 1 | None | |

| | |
|--|---------------------------------|
| <p>GENERAL</p> <p>Sample Handling/Shipment: <u>To Trimatrix Laboratories in Grand Rapids, Michigan</u> Comments: _____ Sampler(s)/Signature: <u>[Signature]</u></p> | <p>Weather: <u>39° RAIN</u></p> |
|--|---------------------------------|

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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 106-18/2
 Date: 10-31-21

WELL INFORMATION:

Total well depth (feet): 50 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): _____ Volume factor (gallons per foot): 0.01 0.16 0.65 Port
 = Water column (feet): _____
 Screen length (feet): _____
 Pump intake depth (feet): 50 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 1615 | 0 | — | 0 | — | 6.68 | 633 | 3 | — | 13.5 |
| 1618 | 3 | — | 900 | 300 | 6.74 | 640 | 2 | — | 13.4 |
| 1621 | 3 | — | 1700 | 265 | 6.74 | 647 | 1 | — | 13.4 |
| 1624 | 3 | — | 2600 | 300 | 6.83 | 647 | 0 | — | 13.3 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|-----------------------------------|--------------|--------------------------------|-------------------------|
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1,000 Milliliter Glass | 1 | None | |

GENERAL

Weather: 34^o Rain

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 910-202B
 Date: 11-2-14
 1540

WELL INFORMATION:

Total well depth (feet): 63
 - Depth to water in well (feet): 25.32
 = Water column (feet): _____
 Screen length (feet): 10
 Pump intake depth (feet): 58 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

Well diameter (inches): 1 4 CMT
 Volume factor (gallons per foot): 0.01 0.16 0.65 Port

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|---------------------------|--------------|------------------|-------------------------|--------------------|-----------------|---------------------|----------------|------------------------|----------------|
| 1532 | 0 | — | 0 | — | 7.15 | 540 | 0 | — | 13.7 |
| 1534 | 3 | 25.32 | 800 | 265 | 7.11 | 610 | 0 | — | 13.5 |
| 1537 | 3 | 25.32 | 1700 | 300 | 7.15 | 613 | 0 | — | 13.4 |
| 1540 | 3 | — | 2100 | 300 | 7.09 | 613 | 0 | — | 13.3 |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 50°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. David Mursch

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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 1910-216A
 Date: 11-2-14

WELL INFORMATION:

Total well depth (feet): 33 Well diameter (inches): $\frac{1}{2}$ $\frac{4}{85}$ CMT
 - Depth to water in well (feet): 24.87 Volume factor (gallons per foot): 0.01 0.16 Port
 = Water column (feet): _____
 Screen length (feet): 10
 Pump intake depth (feet): 32 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear w/ orange globules

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 1109 | 0 | 25.22 | 0 | - | 7.17 | 568 | 63 | - | 13.0 |
| 1108 | 3 | 25.20 | 900 | 300 | 7.26 | 569 | 42 | - | 13.0 |
| 1111 | 3 | - | 1700 | 265 | 7.25 | 567 | 0 | - | 12.6 |
| 1114 | 3 | 25.20 | 2800 | 265 | 7.26 | 570 | | | 12.8 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 70 $^{\circ}$

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. David Mursch

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**GROUNDWATER FIELD
 SAMPLING REPORT**

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 48-217C
 Date: 11-2-14

WELL INFORMATION:

1500

Total well depth (feet): 65
 - Depth to water in well (feet): 20.99 Well diameter (inches): 1 2 4 CMT
 = Water column (feet): _____ Volume factor (gallons per foot): 0.01 0.16 0.85 Port
 Screen length (feet): 5
 Pump intake depth (feet): 62.5 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1447 | 0 | - | 0 | - | 7.13 | 594 | 2 | - | 13.1 |
| 1450 | 3 | 20.99 | 600 | 200 | 7.20 | 568 | 0 | - | 13.0 |
| 1453 | 3 | 20.99 | 1000 | 135 | 7.19 | 560 | 0 | - | 13.1 |
| 1456 | 3 | 20.99 | 1300 | 100 | 7.18 | 556 | 0 | - | 13.3 |
| 1459 | 3 | 20.99 | 1600 | 100 | 7.28 | 555 | 0 | - | 13.5 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 50°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. Mursch

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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 05-15
 Date: 11-2-14

WELL INFORMATION:

0930

Total well depth (feet): 23 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 19.34 Volume factor (gallons per foot): 0.01 0.16 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 5

Pump intake depth (feet): 22.15 All depths are from top of well riser.

Purge Method and Materials: Low-flow purging with peristaltic pump

Purge Water Color: _____

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 0918 | 0 | 19.36 | 0 | - | 7.14 | 407 | 16 | - | 13.8 |
| 0921 | 3 | 19.36 | 900 | 300 | 7.31 | 405 | 0 | - | 13.9 |
| 0924 | 3 | 19.36 | 1800 | 300 | 7.31 | 407 | 0 | - | 14.1 |
| 0927 | 3 | - | 2600 | 265 | 7.31 | 408 | 0 | - | 14.1 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 25 $^{\circ}$

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-17-1
 Date: 11-2-14

WELL INFORMATION:

0815

Total well depth (feet): 30
 - Depth to water in well (feet): _____
 = Water column (feet): _____
 Screen length (feet): _____

Well diameter (inches): 1 2 4 CMT
 Volume factor (gallons per foot): 0.01 0.16 0.65 Port

Pump intake depth (feet): 30 All depths are from top of well riser.

Purge Method and Materials: Low-flow purging with peristaltic pump

Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 0804 | 0 | - | 0 | - | 7.28 | 625 | 0 | - | 12.8 |
| 0807 | 3 | - | 700 | 235 | 7.27 | 625 | 0 | - | 12.7 |
| 0810 | 7 | - | 1500 | 205 | 7.24 | 626 | 0 | - | 12.6 |
| 0813 | 11 | - | 2200 | 245 | 7.24 | 627 | 0 | - | 12.6 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 23.0

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. David Mursch

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**GROUNDWATER FIELD
 SAMPLING REPORT**

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-17/2
 Date: 11-2-14

WELL INFORMATION:

0830

Total well depth (feet): 50 Well diameter (inches): 1 2 4 (CMT)
 - Depth to water in well (feet): - Volume factor (gallons per foot): 0.01 0.16 0.65 (Port)
 = Water column (feet): _____
 Screen length (feet): -
 Pump intake depth (feet): 50 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|-------------|---------------------|----------------|------------------------|----------------|
| <u>0828</u> | <u>0</u> | <u>-</u> | <u>0</u> | <u>-</u> | <u>7.21</u> | <u>614</u> | <u>2</u> | <u>-</u> | <u>12.4</u> |
| <u>0821</u> | <u>3</u> | <u>-</u> | <u>800</u> | <u>265</u> | <u>7.25</u> | <u>617</u> | <u>2</u> | <u>-</u> | <u>12.3</u> |
| <u>0824</u> | <u>3</u> | <u>-</u> | <u>1600</u> | <u>265</u> | <u>7.24</u> | <u>618</u> | <u>0</u> | <u>-</u> | <u>12.4</u> |
| <u>0827</u> | <u>3</u> | <u>-</u> | <u>2400</u> | <u>265</u> | <u>7.25</u> | <u>618</u> | <u>0</u> | <u>-</u> | <u>12.3</u> |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|----------------------------|----------|--------------|-------------------------|
| <u>40 - Milliliter VOA</u> | <u>2</u> | <u>HCL</u> | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 240

Sample Handling/Shipmet: To Trimatrix Laboratories in Grand Rapids, Michigan
 Comments: _____
 Sampler(s)/Signature: R. David Mursch

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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: PO-17/13
 Date: 11-2-16

WELL INFORMATION:

Total well depth (feet): 105 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): _____ Volume factor (gallons per foot): 0.01 0.16 0.65 Port
 = Water column (feet): _____
 Screen length (feet): _____
 Pump intake depth (feet): 65 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 0832 | 0 | — | 0 | — | 7.21 | 629 | 1 | — | 12.2 |
| 0835 | 3 | — | 900 | 300 | 7.27 | 615 | 0 | — | 12.2 |
| 0838 | 6 | — | 1700 | 283 | 7.26 | 626 | 0 | — | 12.2 |
| 0841 | 9 | — | 2400 | 267 | 7.26 | 628 | 0 | — | 12.2 |
| Criteria Range, ±: | | | | 0.1 | 3% | 10% | 10% | | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 25°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-17-17
 Date: 11-2-14

WELL INFORMATION:

Total well depth (feet): 110
 - Depth to water in well (feet): 110
 = Water column (feet):
 Screen length (feet):
 Well diameter (inches): 1 2 4 **CMT Port**
 Volume factor (gallons per foot): 0.01 0.16 0.65
 Pump intake depth (feet): 110 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color:

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 09:00 | 0 | - | 0 | 0 | 7.25 | 539 | 6 | - | 12.4 |
| 09:02 | 2 | - | 700 | 235 | 7.25 | 539 | 21 | - | 12.3 |
| 09:06 | 3 | - | 1300 | 200 | 7.25 | 543 | 27 | - | 12.3 |
| 09:09 | 3 | - | 1900 | 200 | 7.28 | 547 | 10 | - | 12.3 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear 75°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments:

Sampler(s)/Signature: *R. David Mursch*

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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-19A
 Date: 11-2-14

WELL INFORMATION:

Total well depth (feet): 15 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): _____ Volume factor (gallons per foot): 0.01 0.16 0.65 Port
 = Water column (feet): _____
 Screen length (feet): _____
 Pump intake depth (feet): 15 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 1340 | 0 | - | 0 | - | 7.79 | 155 | 27 | - | 13.9 |
| 1345 | 5 | - | 850 | 265 | 7.86 | 152 | 7 | - | 13.4 |
| 1350 | 10 | - | 1600 | 265 | 7.89 | 151 | 0 | - | 13.8 |
| 1355 | 15 | - | 2400 | 265 | 7.88 | 152 | 0 | - | 13.8 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 500

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: _____

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 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-19/3
 Date: 11-2-14

WELL INFORMATION:

Total well depth (feet): 45 Well diameter (inches): 1 2 4 (CMT
 - Depth to water in well (feet): _____ Volume factor (gallons per foot): 0.01 0.16 0.65 Port
 = Water column (feet): _____
 Screen length (feet): _____
 Pump intake depth (feet): 45 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

1415'

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1405 | 0 | - | 0 | - | 6.95 | 622 | 102 | - | 12.9 |
| 1408 | 3 | - | 800 | 265 | 7.03 | 630 | 136 | - | 12.9 |
| 1411 | 3 | - | 1600 | 265 | 7.09 | 635 | 61 | - | 12.8 |
| 1414 | 3 | - | 2400 | 265 | 7.11 | 637 | 18 | - | 12.8 |
| 1416 | 2 | - | 3000 | 300 | 7.11 | 637 | 5 | - | 12.8 |
| | | | | Criteria Range, ±: | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |

GENERAL

Weather: clear, 50°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s) Signature: [Signature]

R. David Mursch, P.E.
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 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-19-17
 Date: 11-2-14

WELL INFORMATION:

1435

Total well depth (feet): _____
 - Depth to water in well (feet): _____
 = Water column (feet): _____
 Screen length (feet): _____

Well diameter (inches): 1 2 4 **CMT**
 Volume factor (gallons per foot): 0.01 0.16 0.65 **Port**

Pump intake depth (feet): All depths are from top of well riser.

Purge Method and Materials: Low-flow purging with peristaltic pump

Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1420 | 0 | - | 0 | - | 6.94 | 596 | 2 | - | 13.0 |
| 1423 | 3 | - | 900 | 300 | 7.10 | 598 | 0 | - | 13.1 |
| 1426 | 3 | - | 1800 | 300 | 7.14 | 600 | 0 | - | 13.0 |
| 1429 | 3 | - | 2600 | 265 | 7.14 | 604 | 0 | - | 12.7 |
| 1432 | 3 | - | - | - | 7.19 | 608 | 0 | - | 12.6 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 50°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

| | | |
|---|--|--|
| R. David Mursch, P.E. Geotechnical and Environmental Engineer 104 Rivercliff Drive Connelly Springs, NC 28612 phone (828) 234-5906 | GROUNDWATER FIELD SAMPLING REPORT | Site Name: <u>Prairie Ronde Realty</u> Location: <u>Dowagiac, MI</u> Sampling Point: <u>83-19A</u> Date: <u>11-3-14</u> |
|---|--|--|

| | |
|--|---|
| WELL INFORMATION: | 0920 Total well depth (feet): <u>15</u> - Depth to water in well (feet): <u>16.63</u> = Water column (feet): _____ Screen length (feet): <u>3</u> Pump intake depth (feet): <u>13.5</u> All depths are from top of well riser. |
| | Well diameter (inches): $\frac{1}{2}$ $\frac{4}{16}$ CMT Volume factor (gallons per foot): 0.01 $\frac{0.16}{0.65}$ Port |
| Purge Method and Materials: <u>Low-flow purging with peristaltic pump</u> Purge Water Color: <u>clear</u> | |

| FIELD MEASUREMENTS | | | | Measuring Equipment: <u>Horiba U-10, SN 404014</u> | | | | | |
|-------------------------|--------------|-----------------|-------------------------|--|------|--------------------------|----------------|------------------------|--------------------------|
| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
| 0910 | 0 | 7.65 | 0 | - | 7.31 | 311 | 3 | - | 12.7 |
| 0913 | 3 | 7.61 | 1,000 | 335 | 7.57 | 310 | 2 | - | 12.7 |
| 0916 | 3 | 7.59 | 1,200 | 265 | 7.57 | 318 | 1 | - | 12.7 |
| 0919 | 3 | 7.58 | 2400 | 265 | 7.36 | 322 | 0 | - | 12.7 |
| Criteria Range, \pm : | | | | 0.1 | 3% | 10% | 10% | | |

| SAMPLES OBTAINED | | | |
|---------------------------|--------|--------------|-------------------------|
| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
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| | |
|--|--|
| GENERAL | Weather: <u>clear, 50$^{\circ}$</u> |
| Sample Handling/Shipmt: <u>To Trimatrix Laboratories in Grand Rapids, Michigan</u> | |
| Comments: _____ | |
| Sampler(s)/Signature: <u>[Signature]</u> | |

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 104 Rivercliff Drive Connally Springs, NC 28612
 phone (828) 234-3906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 83-19B
 Date: 11-3-14

WELL INFORMATION:

Total well depth (feet): 40 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 6.58 Volume factor (gallons per foot): 0.01 0.16 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 3
 Pump intake depth (feet): 38.5 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 0857 | 0 | 6.83 | 0 | - | 7.29 | 589 | 6 | - | 12.0 |
| 0857 | 2 | 6.80 | 1100 | 365 | 7.24 | 591 | 8 | - | 12.0 |
| 0900 | 3 | 6.80 | 2000 | 300 | 7.41 | 602 | 12 | - | 12.1 |
| 0903 | 3 | - | 2900 | 300 | 7.42 | 608 | 9 | - | 12.1 |
| 0906 | 3 | 6.80 | 2900 | 335 | 7.41 | 610 | 4 | - | 12.1 |
| Criteria Range, ±: | | | | 0.1 | 3% | 10% | 10% | | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: P. cloudy, 50°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. David Mursch

R. David Mursch, P.E.
Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 83-21A
 Date: 11-3-11
1430

WELL INFORMATION:

Total well depth (feet): 22
 - Depth to water in well (feet): 8.30
 = Water column (feet): _____
 Screen length (feet): 3
 Pump intake depth (feet): 20.1 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: 1.0

Well diameter (inches): 1 2 4 CMT
 Volume factor (gallons per foot): 0.01 0.16 0.85 Port

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1419 | 0 | 8.45 | 0 | - | 7.13 | 631 | 9 | - | 12.7 |
| 1422 | 3 | 8.44 | 1000 | 333 | 7.14 | 641 | 3 | - | 12.7 |
| 1425 | 3 | 8.43 | 2100 | 365 | 7.14 | 1025 | 3 | - | 12.7 |
| 1428 | 3 | 8.43 | 3200 | 365 | 7.06 | 602 | 0 | - | 12.7 |
| 1430 | 20 | - | - | - | 7.13 | 586 | 0 | - | 12.7 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: p. Cloudy, 55°
 Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan
 Comments: _____
 Sampler(s)/Signature: [Signature]

602
 103
 18.10

R. David Mursch, P.E.
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 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-3906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 53-215
 Date: 11-3-14

WELL INFORMATION:

1450

Total well depth (feet): 47 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 8.70 Volume factor (gallons per foot): 0.01 0.18 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 3
 Pump intake depth (feet): 45.05 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|--|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| | | Pre-purge to drawdown water level & get adequate flow for sampling | | | | | | | |
| 1437 | 0 | 16.12 | 00 | — | 7.26 | 578 | 8 | — | 12.3 |
| 1440 | 3 | 16.11 | 900 | 300 | 7.27 | 574 | 6 | — | 12.4 |
| 1443 | 3 | — | — | — | 7.27 | 579 | 5 | — | 12.5 |
| 1446 | 3 | 16.05 | 2200 | 225 | 7.27 | 580 | 0 | — | 12.5 |
| Criteria Range, ±: | | | | 0.1 | 3% | 10% | 10% | | |

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 6) 1300
 12

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: p. cloudy, 55°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

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 phone (828) 234-3906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 83-28A
 Date: 11-3-14

WELL INFORMATION:

Total well depth (feet): 21 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 3270 Volume factor (gallons per foot): 0.01 0.16 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 3
 Pump intake depth (feet): 19.5 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1340 | 0 | 4.03 | 0 | - | 7.12 | 575 | 2 | - | 12.1 |
| 1342 | 3 | 4.02 | 1,100 | 365 | 7.20 | 572 | 0 | - | 12.1 |
| 1344 | 3 | 4.02 | 2200 | 365 | 7.19 | 571 | 0 | - | 12.1 |
| 1344 | 3 | - | 3300 | 365 | 7.19 | 572 | 0 | - | 12.1 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: p. cldy, 45-50

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

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 104 Rivercliff Drive Connelly Springs, NC 28612
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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 83-28A
 Date: 11-3-21

WELL INFORMATION:

Total well depth (feet): 57 Well diameter (inches): 1 1/4 CMT
 - Depth to water in well (feet): 3.62 Volume factor (gallons per foot): 0.01 0.16 0.85 Port
 = Water column (feet): _____
 Screen length (feet): 2
 Pump intake depth (feet): 55.5 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|---------------------------------------|-------------------------|--------------------|---------------------------|---------------------|----------------|------------------------|----------------|
| <u>1252</u> | <u>0</u> | | <u>0</u> | | <u>7.37</u> | | | | |
| | | <u>Pre-purge 2L to draw down well</u> | | | <u>adequate flow rate</u> | | | | |
| <u>1350</u> | <u>0</u> | <u>6.31</u> | | | <u>7.47</u> | <u>523</u> | <u>0</u> | <u>-</u> | <u>11.6</u> |
| <u>1359</u> | <u>3</u> | <u>6.12</u> | <u>800</u> | <u>265</u> | <u>7.45</u> | <u>528</u> | <u>0</u> | <u>-</u> | <u>11.8</u> |
| <u>1402</u> | <u>3</u> | <u>6.23</u> | <u>1600</u> | <u>265</u> | <u>7.35</u> | <u>537</u> | <u>0</u> | <u>-</u> | <u>11.8</u> |
| <u>1405</u> | <u>3</u> | <u>6.17</u> | <u>2400</u> | <u>265</u> | <u>7.29</u> | <u>539</u> | <u>0</u> | <u>-</u> | <u>11.5</u> |
| <u>1408</u> | <u>3</u> | | | | <u>7.29</u> | <u>541</u> | <u>0</u> | <u>-</u> | <u>11.8</u> |
| Criteria Range, ±: | | | | | <u>0.1</u> | <u>3%</u> | <u>10%</u> | <u>10%</u> | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|----------------------------|----------|--------------|-------------------------|
| <u>40 - Milliliter VOA</u> | <u>2</u> | <u>HCL</u> | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: p. cldy, 55°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. Mursch

R. David Mursch, P.E.
 Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connally Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 97-212A
 Date: 11-5-14

WELL INFORMATION:

Total well depth (feet): 53
 - Depth to water in well (feet): 4.77
 = Water column (feet): _____
 Screen length (feet): 10
 Pump intake depth (feet): 48 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: Clear

1225

Well diameter (inches): 1 2 4 CMT
 Volume factor (gallons per foot): 0.01 0.16 0.65 Port

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1211 | 0 | 6.78 | 0 | - | 7.05 | 623 | 0 | - | 11.9 |
| 1214 | 3 | 6.78 | - | - | 7.09 | 628 | 0 | - | 11.9 |
| 1217 | 3 | - | 2100 | 350 | 6.99 | 630 | 0 | - | 11.9 |
| 1220 | 3 | - | 3000 | 300 | 6.95 | 630 | 0 | - | 12.0 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |

GENERAL

Weather: p. Cldy, so

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

R. David Mursch, P.E.
Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 97-213A
 Date: 11-3-14

WELL INFORMATION:

1200

Total well depth (feet): 42
 - Depth to water in well (feet): 10.32
 = Water column (feet): _____
 Screen length (feet): 10
 Well diameter (inches): $\frac{1}{2}$ $\frac{4}{8}$ CMT
 Volume factor (gallons per foot): 0.01 $\frac{1}{8}$ 0.65 Port
 Pump intake depth (feet): 37 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1150 | 0 | 10.35 | 0 | - | 7.05 | 587 | 10 | - | 11.6 |
| 1153 | 3 | - | 900 | 300 | 7.13 | 573 | 13 | - | 11.6 |
| 1156 | 3 | 10.34 | 1900 | 335 | 7.03 | 562 | 6 | - | 11.5 |
| 1159 | 3 | 10.35 | 3800 | 300 | 6.97 | 557 | 1 | - | 11.5 |
| | | | | | | | | | |
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| | | | | | | | | | |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: p. cldy, 500

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments:

Sampler(s)/Signature: R. Mursch

R. David Mursch, P.E.
Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

**GROUNDWATER FIELD
 SAMPLING REPORT**

Site Name: **Prairie Ronde Realty**
 Location: **Dowagiac, MI**
 Sampling Point: **2-245A**
 Date: **11-1-14**

WELL INFORMATION: 1330

Total well depth (feet): 32 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 6.95 Volume factor (gallons per foot): 0.01 0.18 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 10

Pump intake depth (feet): 27 All depths are from top of well riser.

Purge Method and Materials: Low-flow purging with peristaltic pump

Purge Water Color: clear

FIELD MEASUREMENTS • Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1314 | 0 | 6.91 | 0 | - | 7.22 | 594 | 0 | - | 12.7 |
| 1322 | 3 | 6.96 | 900 | 300 | 7.13 | 583 | 0 | - | 12.1 |
| 1325 | 3 | 6.92 | 1,500 | 300 | 7.09 | 591 | 0 | - | 12.1 |
| 1328 | 3 | - | 2,100 | 305 | 7.11 | 589 | 0 | - | 12.0 |
| 1331 | 3 | - | - | - | 7.10 | 587 | 0 | - | 12.0 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

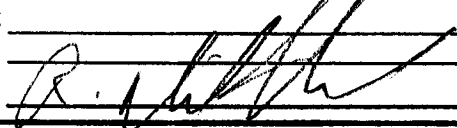
| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: P. cloudy, 55°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: 

R. David Mursch, P.E.
 Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: IW-11
 Date: 11-3-14

WELL INFORMATION: 0740

Total well depth (feet): 50 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 23.57 Volume factor (gallons per foot): 0.01 0.16 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 5

Pump intake depth (feet): 47.5 All depths are from top of well riser.

Purge Method and Materials: Low-flow purging with peristaltic pump

Purge Water Color: _____

| FIELD MEASUREMENTS | | Measuring Equipment: <u>Horiba U-10, SN 404014</u> | | | | | | | |
|--------------------|--------------|--|-------------------------|--------------------|-------------|---------------------|----------------|------------------------|----------------|
| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
| <u>0730</u> | <u>0</u> | <u>23.57</u> | <u>0</u> | <u>-</u> | <u>7.28</u> | <u>563</u> | <u>1</u> | <u>-</u> | <u>12.7</u> |
| <u>0733</u> | <u>3</u> | <u>-</u> | <u>1100</u> | <u>365</u> | <u>7.25</u> | <u>564</u> | <u>1</u> | <u>-</u> | <u>12.6</u> |
| <u>0736</u> | <u>3</u> | <u>23.57</u> | <u>1400</u> | <u>465</u> | <u>7.24</u> | <u>566</u> | <u>0</u> | <u>-</u> | <u>12.6</u> |
| <u>0739</u> | <u>3</u> | <u>-</u> | <u>2700</u> | <u>905</u> | <u>7.23</u> | <u>567</u> | <u>0</u> | <u>-</u> | <u>12.5</u> |
| Criteria Range, ±: | | | | | <u>0.1</u> | <u>3%</u> | <u>10%</u> | <u>10%</u> | |

| SAMPLES OBTAINED | | | |
|----------------------------|----------|--------------|-------------------------|
| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
| <u>40 - Milliliter VOA</u> | <u>2</u> | <u>HCL</u> | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 50°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

| | | |
|---|--|---|
| <i>R. David Mursch, P.E.</i> Geotechnical and Environmental Engineer 104 Rivercliff Drive Connelly Springs, NC 28612 phone (828) 234-5906 | GROUNDWATER FIELD SAMPLING REPORT | Site Name: <u>Prairie Ronde Realty</u> Location: <u>Dowagiac, MI</u> Sampling Point: <u>IW-18</u> Date: <u>11-3-14</u> |
|---|--|---|

WELL INFORMATION:

1125

Total well depth (feet): 49
 - Depth to water in well (feet): 9.81 Well diameter (Inches): 1 3/4 CMT
 = Water column (feet): _____ Volume factor (gallons per foot): 0.01 0.18 0.65 Port
 Screen length (feet): 5
 Pump intake depth (feet): 46.5 All depths are from top of well riser.

Purge Method and Materials: Low-flow purging with peristaltic pump

Purge Water Color: clear

| FIELD MEASUREMENTS | | | | Measuring Equipment: <u>Horiba U-10, SN 404014</u> | | | | | | |
|---------------------------|--------------|-----------------|-------------------------|--|------|---------------------|----------------|------------------------|----------------|--|
| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C | |
| 1112 | 0 | 9.86 | 0 | - | 7.24 | 551 | 14 | - | 11.1 | |
| 1115 | 3 | 9.85 | 1000 | 335 | 7.25 | 571 | 18 | - | 11.1 | |
| 1118 | 3 | 9.85 | 2000 | 335 | 7.22 | 595 | 10 | - | 11.0 | |
| 1121 | 3 | - | 2900 | 300 | 7.20 | 608 | 11 | - | 11.0 | |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | | |

| SAMPLES OBTAINED | | | |
|---------------------------|--------|--------------|-------------------------|
| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: p. cloudy, 50°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: *[Signature]*

R. David Mursch, P.E.
 Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-3906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: FW-2
 Date: 11-3-14

WELL INFORMATION:

Total well depth (feet): 70 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 3.50 Volume factor (gallons per foot): 0.01 0.18 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 5
 Pump intake depth (feet): 68 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1237 | 0 | 3.51 | 0 | - | 7.08 | 639 | 0 | - | 11.5 |
| 1237 | 3 | 3.51 | 1000 | 335 | 7.09 | 643 | 0 | - | 11.6 |
| 1240 | 3 | 3.51 | 2000 | 335 | 7.03 | 643 | 0 | - | 11.6 |
| 1243 | 3 | - | 3000 | 335 | 6.97 | 644 | 0 | - | 11.6 |
| Criteria Range, ±: | | | | 0.1 | 3% | 10% | 10% | | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: p. cloudy, 55°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. Mursch

R. David Mursch, P.E.
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 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: FW-24
 Date: 11-3-14

WELL INFORMATION:

Total well depth (feet): 60
 - Depth to water in well (feet): 2.60
 = Water column (feet): _____
 Screen length (feet): 5
 Well diameter (inches): 1 2 4 CMT
 Volume factor (gallons per foot): 0.01 (0.16) 0.65 Port
 Pump intake depth (feet): 58 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 1302 | 0 | 2.65 | 0 | - | 7.13 | 605 | 9 | - | 12.2 |
| 1305 | 3 | 2.65 | 1200 | 400 | 7.15 | 607 | 8 | - | 12.2 |
| 1308 | 3 | 2.64 | 2300 | 335 | 7.15 | 609 | 0 | - | 12.2 |
| 1311 | 3 | - | 3300 | 335 | 7.18 | 609 | 0 | - | 12.2 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: p. cldy, 55-0

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: 

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 Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 02-03
 Date: 11-3-14
0825

WELL INFORMATION:

Total well depth (feet): 64
 - Depth to water in well (feet): 23.38 Well diameter (inches): $\frac{1}{2}$ 4 CMT
 = Water column (feet): _____ Volume factor (gallons per foot): $0.01 \cdot 0.16 \cdot 0.65$ Port
 Screen length (feet): 3
 Pump intake depth (feet): 61.5 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, $\mu S/cm$ | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}C$ |
|------|--------------|-----------------|-------------------------|--------------------|-------------------------|--------------------------|----------------|------------------------|-------------------------|
| 0812 | 0 | 23.38 | 0 | - | 7.22 | 608 | 1 | - | 11.7 |
| 0815 | 3 | - | 1000 | 333 | 7.23 | 607 | 0 | - | 11.6 |
| 0818 | 3 | 23.38 | 1900 | 300 | 7.19 | 607 | 0 | - | 11.6 |
| 0821 | 3 | - | 2100 | 235 | 7.19 | 608 | 0 | - | 11.5 |
| | | | | | Criteria Range, \pm : | 0.1 | 3% | 10% | 10% |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 50 $^{\circ}$

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: _____

[Handwritten Signature]

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 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 02-001
 Date: 11-22-14

WELL INFORMATION:

Total well depth (feet): 42 Well diameter (inches): 1 ¹²/₁₆ 4 CMT
 - Depth to water in well (feet): 23.94 Volume factor (gallons per foot): 0.01 ¹²/₁₆ 0.85 Port
 = Water column (feet): _____
 Screen length (feet): 5
 Pump intake depth (feet): 39.5 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

0840

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 0827 | 0 | 23.96 | 0 | - | 7.15 | 607 | 7 | - | 11.4 |
| 0830 | 3 | - | 900 | 300 | 7.12 | 603 | 0 | - | 11.4 |
| 0833 | 3 | 23.96 | 1800 | 300 | 7.08 | 603 | 0 | - | 11.4 |
| 0836 | 3 | - | 2700 | 300 | 7.07 | 603 | 0 | - | 11.4 |
| | | | | | | | | | |
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| | | | | | | | | | |
| Criteria Range, \pm : | | | | 0.1 | 3% | 10% | 10% | | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: Clear 50 $^{\circ}$

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: P. M. H. [Signature]

R. David Mursch, P.E.
Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-3906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Pralrie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-21/A
 Date: 11-3-14

WELL INFORMATION:

Total well depth (feet): 15 Well diameter (inches): 1 2 4 **CMT**
 - Depth to water in well (feet): 9.75 Volume factor (gallons per foot): 0.01 0.18 0.85 **Port**
 = Water column (feet): _____
 Screen length (feet): _____
 Pump intake depth (feet): 15 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

1050

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1030 | 0 | - | 0 | - | 7.17 | 451 | 96 | - | 11.8 |
| 1042 | 3 | - | 1000 | 335 | 7.20 | 433 | 83 | - | 11.8 |
| 1045 | 3 | - | 2000 | 335 | 7.18 | 424 | 34 | - | 11.9 |
| 1048 | 3 | - | 3000 | 335 | 7.18 | 421 | 21 | - | 12.0 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear 50°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. Mursch

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 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Pralie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-21/2
 Date: 11-3-14

WELL INFORMATION:

1105

Total well depth (feet): 30 Well diameter (inches): 1 2 4 **CMT**
 - Depth to water in well (feet): _____ Volume factor (gallons per foot): 0.01 0.16 0.65 **Port**
 = Water column (feet): _____
 Screen length (feet): _____
 Pump intake depth (feet): 30 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1052 | 0 | — | 0 | — | 6.87 | 615 | 18 | — | 11.5 |
| 1055 | 3 | — | 1100 | 365 | 7.11 | 598 | 6 | — | 11.4 |
| 1058 | 3 | — | 2000 | 300 | 7.15 | 592 | 0 | — | 11.4 |
| 1101 | 3 | — | 3000 | 335 | 7.07 | 592 | 0 | — | 11.4 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: cloudy 50°

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: _____

R. David Mursch, P.E.
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 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-21/3
 Date: 11-3-14

WELL INFORMATION:

1010

Total well depth (feet): 45 Well diameter (inches): 1 2 4 **CMT Port**
 - Depth to water in well (feet): — Volume factor (gallons per foot): 0.01 0.16 0.65
 = Water column (feet): —
 Screen length (feet): —
 Pump intake depth (feet): 42 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1001 | 0 | — | 0 | — | 7.15 | 645 | 140 | — | 11.3 |
| 1004 | 3 | — | 1000 | 335 | 7.13 | 641 | 128 | — | 11.3 |
| 1007 | 3 | — | 1900 | 300 | 7.14 | 641 | 114 | — | 11.3 |
| 1010 | 3 | — | 2800 | 300 | 7.11 | 643 | 77 | — | 11.3 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: cloudy 50°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: DUP #3

Sampler(s)/Signature: R. Mursch

R. David Mursch, P.E.
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 104 Rivercliff Drive Connally Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-21/4
 Date: 11-3-14
1025

WELL INFORMATION:

Total well depth (feet): 100
 - Depth to water in well (feet): _____
 = Water column (feet): _____
 Screen length (feet): _____
 Pump intake depth (feet): 100 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: _____

Well diameter (Inches): 1 2 4 CMT
 Volume factor (gallons per foot): 0.01 0.18 0.65 Port

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 1015 | 0 | - | 0 | - | 6.94 | 666 | 21 | - | 11.3 |
| 1018 | 3 | - | 1,000 | 335 | 7.10 | 669 | 35 | - | 11.3 |
| 1021 | 3 | - | 2,000 | 335 | 7.15 | 670 | 21 | - | 11.3 |
| 1024 | 3 | - | 3,000 | 335 | 7.14 | 670 | 5 | - | 11.3 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clearly 50

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

R. David Mursch, P.E.
Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-21-15
 Date: 7-3-14

WELL INFORMATION:

104D

Total well depth (feet): _____
 - Depth to water in well (feet): _____
 = Water column (feet): _____
 Screen length (feet): _____
 Pump intake depth (feet): _____ All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

Well diameter (inches): 1 2 4 **CMT**
 Volume factor (gallons per foot): 0.01 0.16 0.65 **Port**

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1027 | 0 | — | 0 | — | 6.81 | 708 | 38 | — | 11.3 |
| 1030 | 3 | — | 900 | 300 | 7.01 | 673 | 8 | — | 11.4 |
| 1033 | 3 | — | 1800 | 300 | 7.08 | 655 | 0 | — | 11.4 |
| 1036 | 3 | — | 2700 | 300 | 7.10 | 649 | 0 | — | 11.4 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: cloudy 500

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: _____

R. David Mursch, P.E.
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 104 Rivercliff Drive Connally Springs, NC 28612
 phone (828) 234-3906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 83-17B
 Date: 11-1-14

WELL INFORMATION:

Total well depth (feet): 43
 - Depth to water in well (feet): 9.77
 = Water column (feet): _____
 Screen length (feet): 3
 Pump intake depth (feet): 41.5 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

Well diameter (inches): 1 2 4 CMT
 Volume factor (gallons per foot): 0.01 0.18 0.65 Port

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|---|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 1435 | 0 | 12.78 | 0 | — | 7.24 | 620 | 5 | — | 14.1 |
| 1438 | 3 | 12.69 | 800 | 265 | 7.26 | 624 | 4 | — | 14.3 |
| 1441 | 3 | 12.32 | — | — | 7.20 | 625 | 1 | — | 14.4 |
| 1444 | 3 | | 2400 | 300 | 7.20 | 626 | 0 | — | 14.3 |
| Pre-purge 7L to draw down water level for adequate flow | | | | | | | | | |
| Criteria Range, \pm : | | | | 0.1 | 3% | 10% | 10% | | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |

GENERAL

Weather: clear, 30 $^{\circ}$

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

DUP #1

Sampler(s)/Signature: _____

[Handwritten Signature]

R. David Mursch, P.E.
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 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 83-23d
 Date: 11-1-14

WELL INFORMATION:

Total well depth (feet): 17
 - Depth to water in well (feet): 8.44
 = Water column (feet): _____
 Screen length (feet): 2
 Pump intake depth (feet): 14 All depths are from top of well riser.
 Well diameter (inches): 1 2/4 CMT
 Volume factor (gallons per foot): 0.01 0.16 0.65 Port
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: dark red - clearing to orange stain

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|---|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 12:55 | 0 | 8.167 | 0 | - | 7.35 | 331 | 999 | - | 12.6 |
| 12:57 | 2 | 8.72 | 800 | 200 | 7.37 | 330 | 720 | - | 12.7 |
| 13:00 | 3 | 8.168 | 1500 | 300 | 7.33 | 328 | 281 | - | 12.7 |
| 13:03 | 3 | 8.169 | 2400 | 300 | 7.30 | 331 | 172 | - | 12.7 |
| 13:06 | 3 | - | - | - | 7.30 | 332 | 109 | - | 12.7 |
| Pre-purge ~ 1L to clear red sludge & out. | | | | | | | | | |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 70

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

R. David Mursch P.E.
 Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 83-23B
 Date: 11-1-14

WELL INFORMATION:

1245

Total well depth (feet): 40
 - Depth to water in well (feet): 81.03
 = Water column (feet): _____
 Screen length (feet): 30
 Pump intake depth (feet): 38.5 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

Well diameter (inches): 1 2 4 CMT
 Volume factor (gallons per foot): 0.01 0.18 0.65 Port

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1237 | 0 | 8.90 | 0 | - | 7.21 | 595 | 5 | - | 12.3 |
| 1236 | 3 | 8.86 | 1,000 | 335 | 7.22 | 592 | 0 | - | 12.3 |
| 1239 | 3 | 8.86 | 2,100 | 365 | 7.24 | 589 | 0 | - | 12.3 |
| 1242 | 3 | - | 3,200 | 365 | 7.23 | 588 | 0 | - | 12.3 |
| Criteria Range, ±: | | | | 0.1 | 3% | 10% | 10% | | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear 300

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

R. David Mursch, P.E.
 Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

**GROUNDWATER FIELD
 SAMPLING REPORT**

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 83-24A
 Date: 1-1-14
1510

WELL INFORMATION:

Total well depth (feet): 14
 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 6.016 Volume factor (gallons per foot): 0.01 0.18 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 3
 Pump intake depth (feet): 14.5 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 1501 | 0 | 6.12 | 0 | - | 7.03 | 600 | 1 | - | 14.4 |
| 1501 | 3 | 6.12 | 1,000 | 333 | 7.10 | 602 | 0 | - | 14.4 |
| 1507 | 3 | 6.12 | 1,900 | 300 | 7.15 | 606 | 0 | - | 14.5 |
| 1510 | 3 | 6.12 | 2300 | 265 | 7.17 | 610 | 0 | - | 14.5 |
| Criteria Range, \pm : | | | | 0.1 | 3% | 10% | 10% | | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

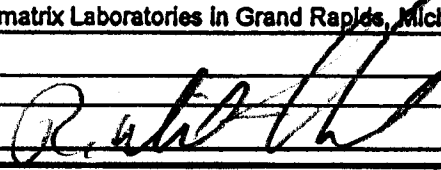
GENERAL

Weather: clear, 30

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: _____



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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 83-24B
 Date: 1-1-17

WELL INFORMATION:

Total well depth (feet): 139 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 6.61 Volume factor (gallons per foot): 0.01 0.16 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 3
 Pump intake depth (feet): 37.5 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: cloudy gray

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|---|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1515 | 0 | 8.11 | 0 | - | 7.06 | 481 | 116 | - | 13.7 |
| | | Pump down to 10 feet depth and flow - 2 | | | | | | | |
| 1524 | 10 | 10.49 | 3000 | - | 7.28 | 470 | 16 | - | 13.4 |
| 1526 | 2 | 10.90 | 3400 | 200 | 7.27 | 505 | 13 | - | 13.5 |
| 1528 | 2 | 10.83 | 3800 | 200 | 7.25 | 523 | 10 | - | 13.5 |
| 1530 | 2 | 10.79 | 4200 | 200 | 7.24 | 525 | 7 | - | 13.5 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 30°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. Mursch

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 104 Rivercliff Drive Connelly Springs, NC 28612
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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 98-215C
 Date: 10-31-11

WELL INFORMATION:

1515

Total well depth (feet): 80 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 22.41 Volume factor (gallons per foot): 0.01 0.18 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 5
 Pump intake depth (feet): 78 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|-------|--------------------------|----------------|------------------------|--------------------------|
| 1502 | 0 | 22.77 | 0 | - | 6.116 | 565 | 9 | - | 13.17 |
| 1505 | 3 | 22.73 | 800 | 265 | 6.20 | 557 | 13 | 13.15 | 13.25 |
| 1508 | 2 | 22.73 | 1600 | 265 | 6.24 | 556 | 0 | - | 13.23 |
| 1511 | 3 | 22.73 | 2400 | 265 | 6.29 | 557 | 0 | - | 13.12 |
| 1514 | 3 | - | - | - | 6.28 | 555 | 0 | - | 13.12 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: 39^o Rain

Sample Handling/Shipmet: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

R. David Mursch, P.E.
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 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 13-224A
 Date: 11-1-14

WELL INFORMATION:

1630

Total well depth (feet): 24 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 15.98 Volume factor (gallons per foot): 0.01 0.16 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 5
 Pump intake depth (feet): 22 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 1618 | 0 | 15.99 | 0 | — | 7.23 | 473 | 3 | — | 13.7 |
| 1621 | 3 | 15.99 | 700 | 235 | 7.23 | 412 | 0 | — | 13.8 |
| 1624 | 3 | 15.99 | 1400 | 235 | 7.24 | 412 | 0 | — | 13.8 |
| 1627 | 3 | — | 2100 | 235 | 7.23 | 412 | 0 | — | 13.8 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear 36^o

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. Mursch

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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prarie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 78-224 B
 Date: 11-1-14

WELL INFORMATION:

Total well depth (feet): 42 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 15.26 Volume factor (gallons per foot): 0.01 0.18 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 10
 Pump intake depth (feet): 37 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|-------------|---------------------|----------------|------------------------|----------------|
| <u>1601</u> | <u>0</u> | <u>15.26</u> | <u>0</u> | <u>—</u> | <u>7.19</u> | <u>577</u> | <u>0</u> | <u>—</u> | <u>12.9</u> |
| <u>1604</u> | <u>3</u> | <u>15.26</u> | <u>1000</u> | <u>335</u> | <u>7.22</u> | <u>576</u> | <u>0</u> | <u>—</u> | <u>12.8</u> |
| <u>1607</u> | <u>3</u> | <u>15.26</u> | <u>21800</u> | <u>265</u> | <u>7.20</u> | <u>576</u> | <u>0</u> | <u>—</u> | <u>12.7</u> |
| <u>1610</u> | <u>3</u> | <u>15.26</u> | <u>2700</u> | <u>300</u> | <u>7.21</u> | <u>574</u> | <u>0</u> | <u>—</u> | <u>12.7</u> |
| <u>1613</u> | <u>3</u> | <u>—</u> | <u>31000</u> | <u>300</u> | <u>7.22</u> | <u>573</u> | <u>0</u> | <u>—</u> | <u>12.7</u> |
| Criteria Range, ±: | | | | | <u>0.1</u> | <u>3%</u> | <u>10%</u> | <u>10%</u> | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|----------------------------|----------|--------------|-------------------------|
| <u>40 - Milliliter VOA</u> | <u>2</u> | <u>HCL</u> | |
| | | | |
| | | | |

GENERAL

Weather: clear, 36

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. Mursch

R. David Mursch, P.E.
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 104 Rivercliff Drive Connally Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: D16-12/13
 Date: 10-31-14

WELL INFORMATION:

Total well depth (feet): 65 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): _____ Volume factor (gallons per foot): 0.01 0.16 0.85 Port
 = Water column (feet): _____
 Screen length (feet): _____
 Pump intake depth (feet): 65 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 11634 | 0 | — | 0 | — | 6.77 | 604 | 27 | — | 13.3 |
| 11637 | 3 | — | 1000 | 335 | 6.78 | 610 | 45 | — | 13.3 |
| 11640 | 3 | — | 1900 | 300 | 6.80 | 611 | 16 | — | 13.3 |
| 11643 | 3 | — | 2600 | 235 | 6.87 | 611 | 3 | — | 13.3 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: 39 $^{\circ}$ Rain

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

R. David Mursch, P.E.
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 104 Rivercliff Drive Connelly Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-18/4
 Date: 10-21-14

WELL INFORMATION:

Total well depth (feet): 80
 - Depth to water in well (feet): _____
 = Water column (feet): _____
 Screen length (feet): _____

Well diameter (inches): 1 2 4 CMT
 Volume factor (gallons per foot): 0.01 0.16 0.85 Port

Pump intake depth (feet): 80 All depths are from top of well riser.

Purge Method and Materials: Low-flow purging with peristaltic pump

Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 11:48 | 0 | — | 0 | — | 6.81 | 591 | 49 | — | 13.3 |
| 11:51 | 3 | — | 900 | 300 | 6.82 | 593 | 62 | — | 13.2 |
| 11:54 | 6 | — | 1700 | 283 | 6.84 | 597 | 42 | — | 13.2 |
| 11:57 | 9 | — | 2600 | 289 | 6.85 | 595 | 4 | — | 13.2 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: 340 Rain

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. David Mursch

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 104 Rivercliff Drive Connally Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-18/7
 Date: 10-31-14

WELL INFORMATION:

1730

Total well depth (feet): 110
 - Depth to water in well (feet): —
 = Water column (feet): —
 Screen length (feet): —

Well diameter (inches): 1 2 4 **CMT Port**
 Volume factor (gallons per foot): 0.01 0.16 0.65

Pump intake depth (feet): 110 All depths are from top of well riser.

Purge Method and Materials: Low-flow purging with peristaltic pump

Purge Water Color: cloudy/gray

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 1700 | 0 | — | — | 0 | 6.84 | 545 | 0 | — | 13.4 |
| 1710 | 7 | — | 1000 | 140 | 6.87 | 552 | 64 | — | 13.6 |
| 1715 | 5 | — | 1500 | 100 | 6.82 | 554 | 50 | — | 13.7 |
| 1720 | 3 | — | 2000 | 100 | 6.89 | 556 | 37 | — | 13.8 |
| 1725 | 5 | — | 2500 | 100 | 6.90 | 558 | 26 | — | 13.8 |
| 1730 | 5 | — | 3000 | 100 | 6.90 | 559 | 15 | — | 13.8 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: 39 $^{\circ}$ Rain

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s) Signature: [Signature]

110
12/0
2/20
1/20

R. David Mursch, P.E.
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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-201
 Date: 1-1-14

WELL INFORMATION:

Total well depth (feet): 15
 - Depth to water in well (feet): _____
 = Water column (feet): _____
 Screen length (feet): _____
 Pump intake depth (feet): 15 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

Well diameter (inches): 1 2 4 **CMT Port**
 Volume factor (gallons per foot): 0.01 0.16 0.85

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 1351 | 0 | - | 0 | - | 7.06 | 146 | 24 | - | 13.5 |
| 1354 | 3 | - | 1000 | 335 | 7.28 | 147 | 7 | - | 13.6 |
| 1357 | 3 | - | 1900 | 300 | 7.24 | 147 | 3 | - | 13.6 |
| 1400 | 3 | - | 2800 | 300 | 7.25 | 146 | 0 | - | 13.7 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: Clear, 30 $^{\circ}$
 Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan
 Comments: _____
 Sampler(s)/Signature: [Signature]

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 104 Rivercliff Drive Connally Springs, NC 28612
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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-0012
 Date: 11-1-14

WELL INFORMATION:

Total well depth (feet): 30
 - Depth to water in well (feet): _____
 = Water column (feet): _____
 Screen length (feet): _____
 Pump intake depth (feet): 30 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

1325
 Well diameter (inches): 1 2 4 CMT Port
 Volume factor (gallons per foot): 0.01 0.16 0.65

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1312 | 0 | - | 0 | - | 6.99 | 163 | 151 | - | 12.6 |
| 1315 | 3 | - | 800 | 265 | 7.40 | 147 | 142 | - | 12.6 |
| 1318 | 3 | - | 1600 | 265 | 7.42 | 140 | 35 | - | 12.7 |
| 1321 | 3 | - | 2400 | 265 | 7.41 | 139 | 17 | - | 12.7 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 30°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan
 Comments: _____
 Sampler(s)/Signature: [Signature]

R. David Mursch, P.E.
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104 Rivercliff Drive Connelly Springs, NC 28612
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GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
Location: Dowagiac, MI
Sampling Point: 06-2013
Date: 11-1-14
1335

WELL INFORMATION:

Total well depth (feet): 45
- Depth to water in well (feet): _____
= Water column (feet): _____
Screen length (feet): _____

Well diameter (inches): 1 2 4 CMT
Volume factor (gallons per foot): 0.01 0.16 0.65 Port

Pump intake depth (feet): 45 All depths are from top of well riser.

Purge Method and Materials: Low-flow purging with peristaltic pump

Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 1325 | 0 | - | 0 | - | 7.20 | 509 | 36 | - | 12.6 |
| 1328 | 3 | - | 1000 | 335 | 7.20 | 526 | 6 | - | 12.6 |
| 1331 | 3 | - | 1900 | 300 | 7.22 | 547 | 1 | - | 12.6 |
| 1334 | 3 | - | 2800 | 300 | 7.20 | 557 | 0 | - | 12.6 |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| Criteria Range, \pm : | | | | 0.1 | 3% | 10% | 10% | | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 30 $^{\circ}$

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. David Mursch

R. David Mursch, P.E.
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 phone (828) 234-3906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-2015
 Date: 11-1-14

WELL INFORMATION:

Total well depth (feet): _____
 - Depth to water in well (feet): _____
 = Water column (feet): _____
 Screen length (feet): _____
 Pump intake depth (feet): All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: _____

Well diameter (inches): 1 2 4 **CMT**
 Volume factor (gallons per foot): 0.01 0.16 0.65 **Port**

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|---|--------------------|-----|--------------------------|----------------|------------------------|--------------------------|
| | | | <i>No sample, could not get them - Screen port may be plugged</i> | | | | | | |
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| | | | | | | | | | |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|--------------------------------|--------------|----------------|-------------------------|
| 40 - Milliliter VGA | 2 | HCl | <i>No sample</i> |
| | | | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 30 $^{\circ}$

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: 

R. David Mursch, P.E.
 Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connally Springs, NC 28612
 phone (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 06-20/6
 Date: 11-1-14
1355'

WELL INFORMATION:

Total well depth (feet): _____
 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): _____ Volume factor (gallons per foot): 0.01 0.16 0.65 Port
 = Water column (feet): _____
 Screen length (feet): _____
 Pump intake depth (feet): All depths are from top of well riser.
 Purge Method and Materials: ~~Low flow purging with peristaltic pump~~ NO PURGE
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|---------------------------|--------------|-----------------|--|--------------------|----|---------------------|----------------|------------------------|----------------|
| | | | Flowing artesian - sample from discharge with no purge | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| Criteria Range, ±: | | | | 0.1 | 3% | 10% | 10% | | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------|-------------------------|
| 40 - Milliliter VOA | 2 | HCL | |
| | | | |
| | | | |
| | | | |
| | | | |

GENERAL

Weather: clear, 30°

Sample Handling/Shipent: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: _____

R. David Mursch, P.E.
 Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 davidmursch@earthlink.net (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: FW-2
 Date: 11-1-14

WELL INFORMATION:

Total well depth (feet): _____ Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 17.98 Volume factor (gallons per foot): 0.01 0.16 0.65 Port
 = Water column (feet): _____
 Screen length (feet): _____
 Pump intake depth (feet): _____ All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 0857 | 0 | 17.99 | 0 | - | 7.25 | 591 | 0 | - | 12.7 |
| 0900 | 3 | 17.99 | 1500 | 365 | 7.27 | 650 | 0 | - | 12.7 |
| 0403 | 3 | 17.98 | 1900 | 265 | 7.27 | 602 | 0 | - | 12.7 |
| 0406 | 3 | - | 2800 | 300 | 7.27 | 603 | 0 | - | 12.7 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|-----------------------------------|--------------|--------------------------------|-------------------------|
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1,000 Milliliter Glass | 1 | None | |

GENERAL

Weather: clear, 70°

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: R. David Mursch

| | | |
|--|--|---|
| R. David Mursch, P.E. Geotechnical and Environmental Engineer 104 Rivercliff Drive Connelly Springs, NC 28612 davidmursch@earthlink.net (828) 234-3906 | GROUNDWATER FIELD SAMPLING REPORT | Site Name: <u>Prairie Ronde Realty</u> Location: <u>Dowagiac, MI</u> Sampling Point: <u>98-270 A</u> Date: <u>1-1-17</u> |
|--|--|---|

| | |
|--------------------------|--|
| WELL INFORMATION: | <div style="text-align: right; margin-bottom: 10px;">0845</div> Total well depth (feet): <u>30</u> Well diameter (inches): 1 <u>2</u> 4 CMT - Depth to water in well (feet): <u>17.98</u> Volume factor (gallons per foot): 0.01 <u>0.16</u> 0.65 Port = Water column (feet): _____ Screen length (feet): <u>10</u> Pump intake depth (feet): <u>25</u> All depths are from top of well riser. Purge Method and Materials: <u>Low-flow purging with peristaltic pump</u> Purge Water Color: <u>clear</u> |
|--------------------------|--|

| FIELD MEASUREMENTS | | | | Measuring Equipment: <u>Horiba U-10, SN 404014</u> | | | | | |
|--------------------|--------------|-----------------|-------------------------|---|------|---------------------|----------------|------------------------|----------------|
| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
| 0830 | 0 | 17.99 | 0 | - | 7.24 | 645 | 9 | - | 13.0 |
| 0834 | 4 | 17.99 | 1400 | 350 | 7.26 | 650 | 8 | - | 13.0 |
| 0837 | 3 | 17.99 | 2300 | 300 | 7.27 | 647 | 3 | - | 13.0 |
| 0840 | 3 | - | 3300 | 335 | 7.26 | 646 | 2 | - | 13.0 |
| | | | | Criteria Range, ±: 0.1 3% 10% 10% | | | | | |

| SAMPLES OBTAINED | | | |
|-----------------------------------|--------------|--------------------------------|-------------------------|
| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1,000 Milliliter Glass | 1 | None | |

| | |
|--|-----------------------------|
| GENERAL | Weather: <u>clear, 29.0</u> |
| Sample Handling/Shipment: <u>To Trimatrix Laboratories in Grand Rapids, Michigan</u> | |
| Comments: _____ | |
| Sampler(s)/Signature: <u><i>R. Mursch</i></u> | |

R. David Mursch, P.E.
 Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 davidmursch@earthlink.net (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 92-225B
 Date: 11-1-14

WELL INFORMATION: 0820

Total well depth (feet): 54 Well diameter (inches): $\frac{1}{2}$ $\frac{12}{0.18}$ $\frac{4}{0.65}$ CMT
 - Depth to water in well (feet): 1817 Volume factor (gallons per foot):
 = Water column (feet): _____
 Screen length (feet): 5
 Pump intake depth (feet): 52 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS Measuring Equipment: Horiba U-10, SN 40414

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 0807 | 0 | 1822 | 0 | - | 7.14 | 652 | 0 | - | 12.8 |
| 0810 | 3 | 1822 | 1,600 | 335 | 7.24 | 645 | 0 | - | 12.8 |
| 0813 | 3 | 1822 | 1,700 | 235 | 7.25 | 650 | 0 | - | 12.8 |
| 0816 | 3 | 1822 | 2,900 | 265 | 7.25 | 650 | 0 | - | 12.8 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|-----------------------------------|--------------|--------------------------------|-------------------------|
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1,000 Milliliter Glass | 1 | None | |

GENERAL Weather: Clear, 29 $^{\circ}$

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

R. David Mursch, P.E.
Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 davidmursch@earthlink.net (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 96-203A
 Date: 7-1-14

WELL INFORMATION:

Total well depth (feet): 26 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 14.42 Volume factor (gallons per foot): 0.01 0.18 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 15
 Pump intake depth (feet): 24 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1721 | 0 | 14.44 | 0 | - | 7.06 | 613 | 1 | - | 13.4 |
| 1724 | 3 | 14.44 | 800 | 265 | 7.25 | 610 | 0 | - | 13.6 |
| 1727 | 3 | 14.44 | 1500 | 235 | 7.24 | 607 | 1 | - | 13.7 |
| 1730 | 3 | 14.44 | - | - | 7.24 | 606 | 0 | - | 13.8 |
| 1733 | 3 | - | 3200 | 265 | 7.25 | 605 | 0 | - | 13.8 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|-----------------------------------|--------------|--------------------------------|-------------------------|
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1,000 Milliliter Glass | 1 | None | |
| DHC Filter | 1 | None | |

GENERAL

Weather: clear, 350

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: [Signature]

41700
265

R. David Mursch, P.E.

Geotechnical and Environmental Engineer

104 Rivercliff Drive Connelly Springs, NC 28612
davidmursch@earthlink.net (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty

Location: Dowagiac, MI

Sampling Point: 98-223B

Date: 11-1-14

WELL INFORMATION:

Total well depth (feet): 47
- Depth to water in well (feet): 81.09
= Water column (feet):
Screen length (feet): 10

Well diameter (inches): 1 1/2 4 CMT
Volume factor (gallons per foot): 0.01 0.16 0.65 Port

Pump intake depth (feet): 42 All depths are from top of well riser.

Purge Method and Materials: Low-flow purging with peristaltic pump

Purge Water Color: clear

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, µS/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature °C |
|--------------------|--------------|-----------------|-------------------------|--------------------|------|---------------------|----------------|------------------------|----------------|
| 1653 | 0 | 8.12 | 0 | - | 7.23 | 606 | 3 | - | 11.5 |
| 1656 | 3 | 8.10 | 1200 | 400 | 7.22 | 606 | 0 | - | 11.4 |
| 1659 | 3 | 8.10 | 2000 | 265 | 7.23 | 606 | 0 | - | 11.4 |
| 1702 | 43 | 8.10 | 2700 | 235 | 7.14 | 606 | 0 | - | 11.4 |
| 1708 | 3 | 8.11 | - | - | 7.22 | 607 | 0 | - | 11.4 |
| Criteria Range, ±: | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|---------------------------|--------|--------------------------------|-------------------------|
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1,000-Milliliter Glass | 1 | None | |

GENERAL

Weather: clear, 35°

Sample Handling/Shipmt: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments:

Sampler(s)/Signature:

[Handwritten Signature]

R. David Mursch, P.E.
 Geotechnical and Environmental Engineer
 104 Rivercliff Drive Connelly Springs, NC 28612
 davidmursch@earthlink.net (828) 234-5906

GROUNDWATER FIELD SAMPLING REPORT

Site Name: Prairie Ronde Realty
 Location: Dowagiac, MI
 Sampling Point: 98-223A
 Date: 11-1-14

WELL INFORMATION:

Total well depth (feet): 23 Well diameter (inches): 1 2 4 CMT
 - Depth to water in well (feet): 7.98 Volume factor (gallons per foot): 0.01 0.15 0.65 Port
 = Water column (feet): _____
 Screen length (feet): 10
 Pump intake depth (feet): 18 All depths are from top of well riser.
 Purge Method and Materials: Low-flow purging with peristaltic pump
 Purge Water Color: clear

1675'

FIELD MEASUREMENTS

Measuring Equipment: Horiba U-10, SN 404014

| Time | Elapsed Time | Water Depth, ft | Total Volume Purged, ml | Purge Rate, ml/min | pH | Conductivity, μ S/cm | Turbidity, NTU | Dissolved oxygen, mg/l | Temperature $^{\circ}$ C |
|-------------------------|--------------|-----------------|-------------------------|--------------------|------|--------------------------|----------------|------------------------|--------------------------|
| 1636 | 0 | 8.06 | 0 | - | 7.13 | 286 | 0 | - | 12.3 |
| 1639 | 3 | 8.03 | 1,000 | 335 | 7.27 | 310 | 0 | - | 12.2 |
| 1642 | 3 | 8.03 | 1900 | 300 | 7.30 | 314 | 0 | - | 12.1 |
| 1645 | 3 | 8.03 | 2700 | 265 | 7.25 | 313 | 0 | - | 12.1 |
| Criteria Range, \pm : | | | | | 0.1 | 3% | 10% | 10% | |

SAMPLES OBTAINED

| CONTAINER TYPE AND VOLUME | NUMBER | PRESERVATIVE | OTHER (FILTERING, ETC.) |
|-----------------------------------|--------------|--------------------------------|-------------------------|
| 40 - Milliliter VOA | 4 | HCL | |
| 40 - Milliliter VOA | 3 | H ₂ SO ₄ | |
| 500 Milliliter HDPE | 1 | HNO ₃ | |
| 1,000 Milliliter Glass | 1 | None | |

GENERAL

Weather: clear 35 $^{\circ}$

Sample Handling/Shipment: To Trimatrix Laboratories in Grand Rapids, Michigan

Comments: _____

Sampler(s)/Signature: _____

[Handwritten Signature]



Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

December 10, 2014

R. David Mursch, P.E.
RDM
4363 River Run Circle
Hickory, NC 28602

RE: PRAIRIE RONDE REALTY

Microseeps Workorder: 14175

Dear R. Mursch, P.E.:

Enclosed are the analytical results for sample(s) received by the laboratory on Monday, December 01, 2014. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robbin Robl 12/10/2014
rrobl@microseeps.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages 9

Report ID: 14175 - 601108

Page 1 of 8



CERTIFICATE OF ANALYSIS

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without the written consent of Microseeps/Pace Analytical Energy Services, LLC



LABORATORY ACCREDITATIONS & CERTIFICATIONS

| | |
|--------------------------|--|
| Accreditor: | Pennsylvania Department of Environmental Protection, Bureau of Laboratories |
| Accreditation ID: | 02-00538 |
| Scope: | NELAP Non-Potable Water and Solid & Hazardous Waste |
| Accreditor: | South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification |
| Accreditation ID: | 89009003 |
| Scope: | Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA) |
| Accreditor: | NELAP: New Jersey, Department of Environmental Protection |
| Accreditation ID: | PA026 |
| Scope: | Non-Potable Water; Solid and Chemical Materials |
| Accreditor: | NELAP: New York, Department of Health Wadsworth Center |
| Accreditation ID: | 11815 |
| Scope: | Non-Potable Water; Solid and Hazardous Waste |
| Accreditor: | State of Connecticut, Department of Public Health, Division of Environmental Health |
| Accreditation ID: | PH-0263 |
| Scope: | Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA) |
| Accreditor: | NELAP: Texas, Commission on Environmental Quality |
| Accreditation ID: | T104704453-09-TX |
| Scope: | Non-Potable Water |
| Accreditor: | State of New Hampshire |
| Accreditation ID: | 299409 |
| Scope: | Non-potable water |
| Accreditor: | State of Georgia |
| Accreditation ID: | Chapter 391-3-26 |
| Scope: | As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC). |



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SAMPLE SUMMARY

Workorder: 14175 PRAIRIE RONDE REALTY

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-----------|-----------------|--------|------------------|-----------------|
| 141750001 | BLOWER EFFLUENT | Vapor | 11/25/2014 08:35 | 12/1/2014 10:00 |



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ANALYTICAL RESULTS

Workorder: 14175 PRAIRIE RONDE REALTY

Lab ID: 141750001 Date Received: 12/1/2014 10:00 Matrix: Vapor
 Sample ID: BLOWER EFFLUENT Date Collected: 11/25/2014 08:35

| Parameters | Results | Units | PQL | MDL | DF | Prepared | By | Analyzed | By | Qual |
|------------------------------|---------|-------|--------|--------|----|----------------------------------|----|-----------------|----|------|
| RISK - MICR | | | | | | | | | | |
| Analysis Desc: AM4.02 Vapors | | | | | | Analytical Method: AM4.02 Vapors | | | | |
| Vinyl Chloride | 0.15J | ppmv | 1.0 | 0.095 | 1 | | | 12/3/2014 08:07 | SL | |
| 1,1-Dichloroethene | 0.0010U | ppmv | 0.010 | 0.0010 | 1 | | | 12/3/2014 08:07 | SL | |
| Methylene Chloride | 0.19U | ppmv | 2.0 | 0.19 | 1 | | | 12/3/2014 08:07 | SL | |
| trans-1,2-Dichloroethene | 0.0080U | ppmv | 0.010 | 0.0080 | 1 | | | 12/3/2014 08:07 | SL | |
| 1,1-Dichloroethane | 0.0040U | ppmv | 0.020 | 0.0040 | 1 | | | 12/3/2014 08:07 | SL | |
| cis-1,2-Dichloroethene | 0.28 | ppmv | 0.020 | 0.0070 | 1 | | | 12/3/2014 08:07 | SL | |
| Chloroform | 0.0037J | ppmv | 0.0050 | 0.0010 | 1 | | | 12/3/2014 08:07 | SL | |
| 1,1,1-Trichloroethane | 0.025 | ppmv | 0.0050 | 0.0010 | 1 | | | 12/3/2014 08:07 | SL | |
| Carbon Tetrachloride | 0.0010U | ppmv | 0.0050 | 0.0010 | 1 | | | 12/3/2014 08:07 | SL | |
| Trichloroethene | 0.65 | ppmv | 0.010 | 0.0010 | 1 | | | 12/3/2014 08:07 | SL | |
| Tetrachloroethene | 0.0040J | ppmv | 0.010 | 0.0010 | 1 | | | 12/3/2014 08:07 | SL | |



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ANALYTICAL RESULTS QUALIFIERS

Workorder: 14175 PRAIRIE RONDE REALTY

DEFINITIONS/QUALIFIERS

- Disclaimer : The Pennsylvania Department of Environmental Protection (PADEP) has decided to no longer recognize analyses that do not produce data for primary compliance, for NELAP accreditation. The methods affected by this decision are AM20Gax, AM21G, SW846 7199 and AM4.02. The laboratory shall continue to administer the NELAP/TNI standard requirements in the performance of these methods.
- MDL Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
- PQL Practical Quantitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
- ND Not detected at or above reporting limit.
- DF Dilution Factor.
- S Surrogate.
- RPD Relative Percent Difference.
- % Rec Percent Recovery.
- U Indicates the compound was analyzed for, but not detected at or above the noted concentration.
- J Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).



CERTIFICATE OF ANALYSIS

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QUALITY CONTROL DATA

Workorder: 14175 PRAIRIE RONDE REALTY

QC Batch: VAP/1635 Analysis Method: AM4.02 Vapors
 QC Batch Method: AM4.02 Vapors
 Associated Lab Samples: 141750001

METHOD BLANK: 32072

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|--------------------------|-------|--------------|-----------------|------------|
| RISK | | | | |
| 1,1-Dichloroethene | ppmv | 0.0010U | 0.0010 | |
| trans-1,2-Dichloroethene | ppmv | 0.0080U | 0.0080 | |
| 1,1-Dichloroethane | ppmv | 0.0040U | 0.0040 | |
| cis-1,2-Dichloroethene | ppmv | 0.0070U | 0.0070 | |
| Chloroform | ppmv | 0.0010U | 0.0010 | |
| 1,1,1-Trichloroethane | ppmv | 0.0010U | 0.0010 | |
| Carbon Tetrachloride | ppmv | 0.0010U | 0.0010 | |
| Trichloroethene | ppmv | 0.0010U | 0.0010 | |
| Tetrachloroethene | ppmv | 0.0010U | 0.0010 | |

METHOD BLANK: 32073

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|--------------------|-------|--------------|-----------------|------------|
| RISK | | | | |
| Vinyl Chloride | ppmv | 0.095U | 0.095 | |
| Methylene Chloride | ppmv | 0.19U | 0.19 | |

LABORATORY CONTROL SAMPLE & LCSD: 32074 32076

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limit | RPD | Max RPD | Qualifiers |
|--------------------------|-------|-------------|------------|-------------|-----------|------------|-------------|------|---------|------------|
| RISK | | | | | | | | | | |
| 1,1-Dichloroethene | ppmv | 0.65 | 0.72 | 0.72 | 110 | 111 | 75-125 | 0.9 | 20 | |
| trans-1,2-Dichloroethene | ppmv | 0.65 | 0.67 | 0.67 | 103 | 103 | 75-125 | 0 | 20 | |
| 1,1-Dichloroethane | ppmv | 0.64 | 0.73 | 0.70 | 114 | 110 | 75-125 | 3.6 | 20 | |
| cis-1,2-Dichloroethene | ppmv | | 0.0070U | 0.0070U | | | | | | |
| Chloroform | ppmv | 0.53 | 0.54 | 0.54 | 102 | 103 | 75-125 | 0.98 | 20 | |
| 1,1,1-Trichloroethane | ppmv | 0.47 | 0.45 | 0.46 | 97 | 98 | 75-125 | 1 | 20 | |
| Carbon Tetrachloride | ppmv | 0.41 | 0.40 | 0.40 | 97 | 98 | 75-125 | 1 | 20 | |
| Trichloroethene | ppmv | 0.48 | 0.49 | 0.49 | 102 | 102 | 75-125 | 0 | 20 | |
| Tetrachloroethene | ppmv | | 0.0010U | 0.0010U | | | | | | |



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QUALITY CONTROL DATA

Workorder: 14175 PRAIRIE RONDE REALTY

LABORATORY CONTROL SAMPLE & LCSD: 32075 32077

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limit | RPD | Max RPD | Qualifiers |
|--------------------|-------|-------------|------------|-------------|-----------|------------|-------------|-----|---------|------------|
| RISK | | | | | | | | | | |
| Vinyl Chloride | ppmv | | 0.095U | 0.095U | | | | | | |
| Methylene Chloride | ppmv | | 0.19U | 0.19U | | | | | | |



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Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 14175 PRAIRIE RONDE REALTY

| Lab ID | Sample ID | Prep Method | Prep Batch | Analysis Method | Analysis Batch |
|-----------|-----------------|-------------|------------|-----------------|----------------|
| 141750001 | BLOWER EFFLUENT | | | AM4.02 Vapors | VAP/1635 |



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CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

14175

Page: 1 of 1
004535

| | | | | | |
|--|-----------------------------------|---|--|--|---|
| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
| Company: <u>Page's Road Realty Co</u> | Report To: <u>P. Davis Mursch</u> | Attention: <u>Brian Delong</u> | Company Name: <u>Page's Road Realty Co</u> | Address: <u>415 E Page's Road 5th</u> | REGULATORY AGENCY: <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER |
| Address: <u>415 E Page's Road 5th</u> | Copy To: <u>Brian Delong</u> | Address: <u>415 E Page's Road 5th, Duquesne PA 15110</u> | Reference: <u>PER</u> | Site Location: <input type="checkbox"/> UST <input type="checkbox"/> RORA <input type="checkbox"/> OTHER | STATE: <u>PA</u> |
| Email To: <u>David Mursch @earthlink.net</u> | Purchase Order No: <u>N/A</u> | Page Quote: <u>N/A</u> | Requested Due Date/AT: <u>N/A</u> | Requested Analysis Filtered (Y/N) | |
| Phone: <u>412-782-2141</u> | Project Name: <u>PER</u> | Page Project Manager: <u>N/A</u> | | | |
| Requested Due Date/AT: <u>N/A</u> | Project Number: <u>N/A</u> | | | | |

| ITEM # | Section D Required Client Information | Matrix Codes MATRIX / CODE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | Analysis Test ↓ | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|--------|--|-------------------------------|---------------------------------------|-----------------------------|-----------------|--------------------|---------------------------|-----------------|---------------|-------------------------|-----------------------------------|-------------------------|----------------------------|
| | | | | | COMPOSITE START | COMPOSITE END/GRAB | | | | | | | |
| DATE | TIME | DATE | TIME | | | | | | | | | | |
| 1 | <u>Blower Effluent 1</u> | | <u>AR 11-25-14</u> | <u>8:35 A</u> | | | | <u>1</u> | | <u>Chlorinated VOCs</u> | | | |
| 2 | <u>Blower Effluent 2</u> | | <u>AR 11-25-14</u> | <u>8:37 A</u> | | | | | | | | | |
| 3 | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |

| | | | | | | | |
|---------------------|-------------------------------|-----------------|------|---------------------------|--------------------------|------|-------------------|
| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
| | <u>Brian Delong / PER</u> | <u>11-25-14</u> | | <u>Brian Delong</u> | <u>12.11.14 10:00 AM</u> | | <u>N</u> |

| | | | | | |
|--|---|------------|-----------------------|-----------------------------|----------------------|
| SAMPLER NAME AND SIGNATURE | | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: <u>Brian Delong</u> | SIGNATURE of SAMPLER: <u>Brian Delong</u> | | | | |
| DATE Signed (MM/DD/YYYY): <u>11-25-14</u> | | | | | |

ORIGINAL

*Important Note: By signing this form, you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.
F-ALL-Q-020rev.07, 15-May-2007

November 21, 2014

Prairie Ronde Realty Company
Attn: Mr. R. David Mursch
104 Rivercliff Drive
Connelly Springs, NC 28612

Project: NCP Dowagiac, MI

Dear Mr. R. David Mursch,

Enclosed is a copy of the laboratory report for the following work order(s) received by TriMatrix Laboratories:

| Work Order | Received | Description |
|-------------------|-----------------|--------------------|
| 1411065 | 11/04/2014 | PW-15 |

This report relates only to the sample(s) as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) and/or one of the following certification programs:

ACCLASS DoD-ELAP/ISO17025 (#ADE-1542); Arkansas DEP (#88-0730/13-049-0); Florida DEP (#E87622-24); Georgia EPD (#E87622-24); Illinois DEP (#200026/003329); Kansas DPH (#E-10302); Kentucky DEP (#0021); Louisiana DEP (#103068); Michigan DPH (#0034); Minnesota DPH (#491715); New York ELAP (#11776/48855); North Carolina DNRE (#659); Texas CEQ (#T104704495-14-4); Virginia DCLS (#460153/2592); Wisconsin DNR (#999472650); USDA Soil Import Permit (#P330-12-00236).

Any qualification or narration of results, including sample acceptance requirements and test exceptions to the above referenced programs, is presented in the Statement of Data Qualifications and Project Technical Narrative sections of this report. Estimates of analytical uncertainties and certification documents for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,



Gary L. Wood
Project Chemist

PROJECT TECHNICAL NARRATIVE(s)**Volatile Organic Compounds by EPA Method 8260B**

Narrative: The chemical utilized to preserve this sample has the potential to degrade 2-chloroethyl vinyl ether through polymerization or other rapid chemical reaction.

Analysis: USEPA-8260B

Sample/Analyte: 1411065-01 PW-15
1411065-02 Trip Blank TM2592

STATEMENT OF DATA QUALIFICATIONS**Volatile Organic Compounds by EPA Method 8260B**

Qualification: The corresponding CCV for this analytical batch had a recovery exceeding the upper control limit of the method. A positive result for this analyte in any associated samples are considered estimated. Non-detectable results are not qualified.

Analysis: USEPA-8260B

Sample/Analyte: 1411065-02 Trip Blank TM2592 Carbon Disulfide

Qualification: The corresponding CCV for this analytical batch had a recovery below the lower control limit of the method. Positive results for this analyte in any associated samples are considered estimated; non-detectable results are considered approximate.

Analysis: USEPA-8260B

Sample/Analyte: 1411065-02 Trip Blank TM2592 2-Chloroethyl Vinyl Ether

STATEMENT OF DATA QUALIFICATIONS**Total Metals by EPA 6000/7000 Series Methods**

Qualification: The % difference in results between the sample and a serial dilution of the sample exceeded the method control limit. Sample matrix interference is suspected.

Analysis: USEPA-6010C

Sample/Analyte: 1411065-01

PW-15

Iron

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411065 |
| Project: NCP Dowagiac, MI | Description: PW-15 |
| Client Sample ID: PW-15 | Sampled: 11/02/14 10:00 |
| Lab Sample ID: 1411065-01 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/11/14 07:00 By: DLV |
| Dilution Factor: 5 | Analyzed: 11/11/14 12:48 By: DLV |
| QC Batch: 1412672 | Analytical Batch: 4K11041 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|-----|
| 67-64-1 | Acetone | <25 | 25 |
| 71-43-2 | Benzene | <5.0 | 5.0 |
| 75-27-4 | Bromodichloromethane | <1.2 | 1.2 |
| 75-15-0 | Carbon Disulfide | <25 | 25 |
| 56-23-5 | Carbon Tetrachloride | <5.0 | 5.0 |
| 108-90-7 | Chlorobenzene | <5.0 | 5.0 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <25 | 25 |
| 67-66-3 | Chloroform | <1.2 | 1.2 |
| 74-87-3 | Chloromethane | <5.0 | 5.0 |
| 95-50-1 | 1,2-Dichlorobenzene | <5.0 | 5.0 |
| 106-46-7 | 1,4-Dichlorobenzene | <5.0 | 5.0 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 5.0 |
| 107-06-2 | 1,2-Dichloroethane | <5.0 | 5.0 |
| 75-35-4 | 1,1-Dichloroethene | <5.0 | 5.0 |
| 156-59-2 | cis-1,2-Dichloroethene | 140 | 5.0 |
| 156-60-5 | trans-1,2-Dichloroethene | <5.0 | 5.0 |
| 78-87-5 | 1,2-Dichloropropane | <5.0 | 5.0 |
| 100-41-4 | Ethylbenzene | <5.0 | 5.0 |
| 591-78-6 | 2-Hexanone | <25 | 25 |
| 75-09-2 | Methylene Chloride | <5.0 | 5.0 |
| 78-93-3 | 2-Butanone (MEK) | <25 | 25 |
| 100-42-5 | Styrene | <5.0 | 5.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <2.5 | 2.5 |
| 127-18-4 | Tetrachloroethene | <5.0 | 5.0 |
| 108-88-3 | Toluene | <5.0 | 5.0 |
| 71-55-6 | 1,1,1-Trichloroethane | 56 | 5.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <5.0 | 5.0 |
| 79-01-6 | Trichloroethene | 810 | 5.0 |
| 75-01-4 | Vinyl Chloride | 33 | 5.0 |
| 1330-20-7 | Xylene (Total) | <15 | 15 |

Continued on next page

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411065 |
| Project: NCP Dowagiac, MI | Description: PW-15 |
| Client Sample ID: PW-15 | Sampled: 11/02/14 10:00 |
| Lab Sample ID: 1411065-01 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/11/14 07:00 By: DLV |
| Dilution Factor: 5 | Analyzed: 11/11/14 12:48 By: DLV |
| QC Batch: 1412672 | Analytical Batch: 4K11041 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|---------------------------|------------------------------|--------------------------|------------------------------|
| <i>Surrogates:</i> | | | |
| | | <i>% Recovery</i> | <i>Control Limits</i> |
| | <i>Dibromofluoromethane</i> | <i>100</i> | <i>85-118</i> |
| | <i>1,2-Dichloroethane-d4</i> | <i>96</i> | <i>87-122</i> |
| | <i>Toluene-d8</i> | <i>100</i> | <i>85-113</i> |
| | <i>4-Bromofluorobenzene</i> | <i>97</i> | <i>82-110</i> |

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **PW-15**
 Lab Sample ID: **1411065-01**
 Matrix: Water

Work Order: **1411065**
 Description: PW-15
 Sampled: 11/02/14 10:00
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------|-------------------|----|------|-----------------|-------------|--------------------|-----|----------|
| *Iron | 470 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 11:37 | CKD | 1412445 |
| Manganese | 140 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 11:37 | CKD | 1412445 |

US EPA ARCHIVE DOCUMENT

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **PW-15**
 Lab Sample ID: **1411065-01**
 Matrix: Water

Work Order: **1411065**
 Description: PW-15
 Sampled: 11/02/14 10:00
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------------|-------------------|------|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 0.80 | 0.50 | mg/L | 1 | SM 5310 C-2011 | 11/13/14 00:10 | KAR | 1412813 |

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411065 |
| Project: NCP Dowagiac, MI | Description: PW-15 |
| Client Sample ID: Trip Blank TM2592 | Sampled: 11/02/14 00:00 |
| Lab Sample ID: 1411065-02 | Sampled By: TML |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 1 | Analyzed: 11/06/14 15:12 By: DLV |
| QC Batch: 1412441 | Analytical Batch: 4K06042 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|------|
| 67-64-1 | Acetone | <5.0 | 5.0 |
| 71-43-2 | Benzene | <1.0 | 1.0 |
| 75-27-4 | Bromodichloromethane | <0.25 | 0.25 |
| *75-15-0 | Carbon Disulfide | <5.0 | 5.0 |
| 56-23-5 | Carbon Tetrachloride | <1.0 | 1.0 |
| 108-90-7 | Chlorobenzene | <1.0 | 1.0 |
| *110-75-8 | 2-Chloroethyl Vinyl Ether | <5.0 | 5.0 |
| 67-66-3 | Chloroform | <0.25 | 0.25 |
| 74-87-3 | Chloromethane | <1.0 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | <1.0 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | <1.0 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | <1.0 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | <1.0 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | <1.0 | 1.0 |
| 156-59-2 | cis-1,2-Dichloroethene | <1.0 | 1.0 |
| 156-60-5 | trans-1,2-Dichloroethene | <1.0 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | <1.0 | 1.0 |
| 100-41-4 | Ethylbenzene | <1.0 | 1.0 |
| 591-78-6 | 2-Hexanone | <5.0 | 5.0 |
| 75-09-2 | Methylene Chloride | <1.0 | 1.0 |
| 78-93-3 | 2-Butanone (MEK) | <5.0 | 5.0 |
| 100-42-5 | Styrene | <1.0 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <0.50 | 0.50 |
| 127-18-4 | Tetrachloroethene | <1.0 | 1.0 |
| 108-88-3 | Toluene | <1.0 | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | <1.0 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <1.0 | 1.0 |
| 79-01-6 | Trichloroethene | <1.0 | 1.0 |
| 75-01-4 | Vinyl Chloride | <1.0 | 1.0 |
| 1330-20-7 | Xylene (Total) | <3.0 | 3.0 |

Continued on next page

*See Statement of Data Qualifications

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411065 |
| Project: | NCP Dowagiac, MI | Description: | PW-15 |
| Client Sample ID: | Trip Blank TM2592 | Sampled: | 11/02/14 00:00 |
| Lab Sample ID: | 1411065-02 | Sampled By: | TML |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/06/14 08:00 By: DLV |
| Dilution Factor: | 1 | Analyzed: | 11/06/14 15:12 By: DLV |
| QC Batch: | 1412441 | Analytical Batch: | 4K06042 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|------------|------------------------------|-------------------|-----------------------|
| | Surrogates: | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | <i>107</i> | <i>85-118</i> |
| | <i>1,2-Dichloroethane-d4</i> | <i>109</i> | <i>87-122</i> |
| | <i>Toluene-d8</i> | <i>98</i> | <i>85-113</i> |
| | <i>4-Bromofluorobenzene</i> | <i>83</i> | <i>82-110</i> |

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B

| Analyte | Sample Conc. | Spike Qty. | Result | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|

QC Batch: 1412441 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank

Unit: ug/L

Analyzed: 11/06/2014 By: DLV
 Analytical Batch: 4K06042

| | | |
|---------------------------|-------|------|
| Acetone | <5.0 | 5.0 |
| Benzene | <1.0 | 1.0 |
| Bromodichloromethane | <0.25 | 0.25 |
| Carbon Disulfide | <5.0 | 5.0 |
| Carbon Tetrachloride | <1.0 | 1.0 |
| Chlorobenzene | <1.0 | 1.0 |
| 2-Chloroethyl Vinyl Ether | <5.0 | 5.0 |
| Chloroform | <0.25 | 0.25 |
| Chloromethane | <1.0 | 1.0 |
| 1,2-Dichlorobenzene | <1.0 | 1.0 |
| 1,4-Dichlorobenzene | <1.0 | 1.0 |
| 1,1-Dichloroethane | <1.0 | 1.0 |
| 1,2-Dichloroethane | <1.0 | 1.0 |
| 1,1-Dichloroethene | <1.0 | 1.0 |
| cis-1,2-Dichloroethene | <1.0 | 1.0 |
| trans-1,2-Dichloroethene | <1.0 | 1.0 |
| 1,2-Dichloropropane | <1.0 | 1.0 |
| Ethylbenzene | <1.0 | 1.0 |
| 2-Hexanone | <5.0 | 5.0 |
| Methylene Chloride | <1.0 | 1.0 |
| 2-Butanone (MEK) | <5.0 | 5.0 |
| Styrene | <1.0 | 1.0 |
| 1,1,2-Tetrachloroethane | <0.50 | 0.50 |
| Tetrachloroethene | <1.0 | 1.0 |
| Toluene | <1.0 | 1.0 |
| 1,1,1-Trichloroethane | <1.0 | 1.0 |
| 1,1,2-Trichloroethane | <1.0 | 1.0 |
| Trichloroethene | <1.0 | 1.0 |
| Vinyl Chloride | <1.0 | 1.0 |
| Xylene (Total) | <3.0 | 3.0 |

Surrogates:

| | | |
|------------------------------|-----|--------|
| <i>Dibromofluoromethane</i> | 102 | 85-118 |
| <i>1,2-Dichloroethane-d4</i> | 101 | 87-122 |

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

| Analyte | Sample Conc. | Spike Qty. | Result | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|

QC Batch: 1412441 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued)

Unit: ug/L

Analyzed: 11/06/2014 By: DLV
Analytical Batch: 4K06042

Surrogates (Continued):

| | | |
|----------------------|----|--------|
| Toluene-d8 | 97 | 85-113 |
| 4-Bromofluorobenzene | 96 | 82-110 |

Laboratory Control Sample

Unit: ug/L

Analyzed: 11/06/2014 By: DLV
Analytical Batch: 4K06042

| | | | | | | |
|--------------------|------|-------------|-----|--------|----|-----|
| Benzene | 40.0 | 41.0 | 102 | 84-119 | -- | 1.0 |
| Chlorobenzene | 40.0 | 41.4 | 104 | 84-118 | -- | 1.0 |
| 1,1-Dichloroethene | 40.0 | 40.7 | 102 | 77-123 | -- | 1.0 |
| Toluene | 40.0 | 41.5 | 104 | 85-118 | -- | 1.0 |
| Trichloroethene | 40.0 | 41.8 | 104 | 82-119 | -- | 1.0 |

Surrogates:

| | | |
|-----------------------|-----|--------|
| Dibromofluoromethane | 106 | 85-118 |
| 1,2-Dichloroethane-d4 | 101 | 87-122 |
| Toluene-d8 | 102 | 85-113 |
| 4-Bromofluorobenzene | 101 | 82-110 |

QC Batch: 1412672 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank

Unit: ug/L

Analyzed: 11/11/2014 By: DLV
Analytical Batch: 4K11041

| | | | | | | |
|---------------------------|------------|--|--|--|----|------|
| Acetone | <5.0 | | | | -- | 5.0 |
| Benzene | <1.0 | | | | | 1.0 |
| Bromodichloromethane | <0.25 | | | | | 0.25 |
| Carbon Disulfide | 5.1 | | | | -- | 5.0 |
| Carbon Tetrachloride | <1.0 | | | | | 1.0 |
| Chlorobenzene | <1.0 | | | | | 1.0 |
| 2-Chloroethyl Vinyl Ether | <5.0 | | | | | 5.0 |
| Chloroform | <0.25 | | | | | 0.25 |
| Chloromethane | <1.0 | | | | | 1.0 |
| 1,2-Dichlorobenzene | <1.0 | | | | | 1.0 |
| 1,4-Dichlorobenzene | <1.0 | | | | -- | 1.0 |
| 1,1-Dichloroethane | <1.0 | | | | | 1.0 |
| 1,2-Dichloroethane | <1.0 | | | | | 1.0 |

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

| Analyte | Sample Conc. | Spike Qty. | Result | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|

QC Batch: 1412672 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued)

Analyzed: 11/11/2014 By: DLV
 Analytical Batch: 4K11041

Unit: ug/L

| | | |
|---------------------------|-------|------|
| 1,1-Dichloroethene | <1.0 | 1.0 |
| cis-1,2-Dichloroethene | <1.0 | 1.0 |
| trans-1,2-Dichloroethene | <1.0 | 1.0 |
| 1,2-Dichloropropane | <1.0 | 1.0 |
| Ethylbenzene | <1.0 | 1.0 |
| 2-Hexanone | <5.0 | 5.0 |
| Methylene Chloride | <1.0 | 1.0 |
| 2-Butanone (MEK) | <5.0 | 5.0 |
| Styrene | <1.0 | 1.0 |
| 1,1,2,2-Tetrachloroethane | <0.50 | 0.50 |
| Tetrachloroethene | <1.0 | 1.0 |
| Toluene | <1.0 | 1.0 |
| 1,1,1-Trichloroethane | <1.0 | 1.0 |
| 1,1,2-Trichloroethane | <1.0 | 1.0 |
| Trichloroethene | <1.0 | 1.0 |
| Vinyl Chloride | <1.0 | 1.0 |
| Xylene (Total) | <3.0 | 3.0 |

Surrogates:

| | | |
|------------------------------|----|--------|
| <i>Dibromofluoromethane</i> | 98 | 85-118 |
| <i>1,2-Dichloroethane-d4</i> | 95 | 87-122 |
| <i>Toluene-d8</i> | 99 | 85-113 |
| <i>4-Bromofluorobenzene</i> | 97 | 82-110 |

Laboratory Control Sample

Analyzed: 11/11/2014 By: DLV
 Analytical Batch: 4K11041

Unit: ug/L

| | | | | | | |
|--------------------|------|-------------|-----|--------|----|-----|
| Benzene | 40.0 | 44.3 | 111 | 84-119 | -- | 1.0 |
| Chlorobenzene | 40.0 | 40.1 | 100 | 84-118 | -- | 1.0 |
| 1,1-Dichloroethene | 40.0 | 44.3 | 111 | 77-123 | -- | 1.0 |
| Toluene | 40.0 | 44.4 | 111 | 85-118 | -- | 1.0 |
| Trichloroethene | 40.0 | 45.6 | 114 | 82-119 | -- | 1.0 |

Continued on next page

QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

| Analyte | Sample Conc. | Spike Qty. | Result | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|

QC Batch: 1412672 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued)

Unit: ug/L

 Analyzed: 11/11/2014 By: DLV
 Analytical Batch: 4K11041

Surrogates:

| | | |
|------------------------------|-----|--------|
| <i>Dibromofluoromethane</i> | 102 | 85-118 |
| <i>1,2-Dichloroethane-d4</i> | 94 | 87-122 |
| <i>Toluene-d8</i> | 103 | 85-113 |
| <i>4-Bromofluorobenzene</i> | 101 | 82-110 |

QUALITY CONTROL REPORT
Total Metals by EPA 6000/7000 Series Methods

| QC Type | Sample Conc. | Spike Qty. | Result | Unit | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|------|--------------|----------------|-----|------------|----|

Analyte: Iron/USEPA-6010C

QC Batch: 1412445 (3010A Digestion) Analyzed: 11/12/2014 By: CKD

| | | | | | | | | | |
|---------------------------|-----|-----|------------|------|-----|--------|---|----|----|
| Method Blank | | | <10 | ug/L | | | | | 10 |
| Laboratory Control Sample | | 400 | 448 | ug/L | 112 | 80-120 | | | 10 |
| 1411065-01 [PW-15] | | | | | | | | | |
| Matrix Spike | 473 | 400 | 877 | ug/L | 101 | 75-125 | | | 10 |
| Matrix Spike Duplicate | 473 | 400 | 931 | ug/L | 114 | 75-125 | 6 | 20 | 10 |

Analyte: Manganese/USEPA-6010C

QC Batch: 1412445 (3010A Digestion) Analyzed: 11/12/2014 By: CKD

| | | | | | | | | | |
|---------------------------|-----|-----|------------|------|-----|--------|---|----|----|
| Method Blank | | | <10 | ug/L | | | | | 10 |
| Laboratory Control Sample | | 400 | 446 | ug/L | 111 | 80-120 | | | 10 |
| 1411065-01 [PW-15] | | | | | | | | | |
| Matrix Spike | 137 | 400 | 568 | ug/L | 108 | 75-125 | | | 10 |
| Matrix Spike Duplicate | 137 | 400 | 585 | ug/L | 112 | 75-125 | 3 | 20 | 10 |

QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| QC Type | Sample Conc. | Spike Qty. | Result | Unit | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|------|--------------|----------------|-----|------------|----|

Analyte: Carbon, Total Organic/SM 5310 C-2011

QC Batch: 1412813 (General Inorganic Prep)

Analyzed: 11/12/2014 By: KAR

| | | | | | | | | | |
|---------------------------|--|------|-------------|------|-----|--------|--|--|------|
| Method Blank | | | <0.50 | mg/L | | | | | 0.50 |
| Laboratory Control Sample | | 2.00 | 1.99 | mg/L | 100 | 84-118 | | | 0.50 |



5560 Corporate Exchange Court SE
 Grand Rapids, MI 49512
 Phone (616) 975-4500 Fax (616) 942-7463
 www.trimatrixlabs.com

Chain of Custody Record

COC No. **149451**

Analyses Requested

Pg. 1 of 1

D C B A

8760
 TOC
 Fe, Mn
 VFA

Container Type (corresponds to Container Packing List)

1 1 1 0

Number of Containers Submitted

- ← PRESERVATIVES
- A NONE pH-7
- B HNO₃ pH<2
- C H₂SO₄ pH<2
- D 1+1 HCl pH<2
- E NaOH pH>12
- F ZnAcetate/NaOH pH>9
- G MeOH
- H Other (note below)

| Schedule | Matrix Code | Sample Number | Field Sample ID | Cooler ID | Sample Date | Sample Time | Matrix | Sample Comments |
|----------|-------------|---------------|----------------------|-------------|-------------|-------------|---------|--------------------|
| 18 07 | 01 02 | 01 02 | PUD-15 trip blank | TM1 2592 | 11-2-14 | 1000 | W -W | 2-3 1 2 1 - - - |

For Lab Use Only
 Cart 2

VOA Rack/Tray
 Receipt Log No. 480, 469, 40.

Project/Program
35-6

Work Order No.
141005

Client Name
R. DAVID MURSEY

Address
104 RIVERLIFE DR

City, State Zip
LEWISVILLE SPRINGS, NC 28642

Phone/fax
David.mursey@earthlink.net

Project Name
PRR

Client Project No. / P.O. No.
96-01

Invoice To
PRR

Contact/Report To
RDM

Sampled By (Print)
R. DAVID MURSEY

How Shipped?
Hand

Carrier
Fed Ex

Tracker's Signature
R. David Mursey

Tracking No.

1. Requisitioned By
 Date Time

2. Received By
 Date Time

3. Requisitioned By
 Date Time

Received For Use By
[Signature]
 Date Time
11/14/14 0900

WHITE COPY - REPORT

YELLOW COPY - LABORATORY

PINK COPY - FIELD

SAMPLE RECEIVING / LOG-IN CHECKLIST



| | |
|--|---|
| <small>Client</small> <i>Prairie Ponds Realty</i> | <small>Work Order #</small> <i>14110605</i> |
| <small>Receipt Record Page/Line #</small> | <small>New / Add To Project Chemist Sample #s</small> |

| | | | | |
|---|---|---|---|---|
| <small>Recorded by (initials/date)</small> <i>SL 11/4/14</i> | <input type="checkbox"/> Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other | <small>Qty Received</small> <i>1</i> | <input checked="" type="checkbox"/> IR Gun (#202) <input type="checkbox"/> Digital Thermometer (#54) <input type="checkbox"/> Other (# _____) | <input type="checkbox"/> See Additional Cooler Information Form |
|---|---|---|---|---|

| Cooler # | Time | Cooler # | Time | Cooler # | Time | Cooler # | Time |
|--|-------------------------------------|---|----------------------------|---|--------------------------|---|-------------------------------------|
| <i>tm 2592</i> | <i>1141</i> | | | | | | |
| <small>Custody Seals:</small> <input checked="" type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact | | <small>Custody Seals:</small> <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact | | <small>Custody Seals:</small> <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact | | <small>Custody Seals:</small> <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact | |
| <small>Coolant Type:</small> <input type="checkbox"/> Loose Ice <input checked="" type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None | | <small>Coolant Type:</small> <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None | | <small>Coolant Type:</small> <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None | | <small>Coolant Type:</small> <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None | |
| <small>Coolant Location:</small> Dispersed / Top / Middle / <input checked="" type="checkbox"/> Bottom | | <small>Coolant Location:</small> Dispersed / Top / Middle / Bottom | | <small>Coolant Location:</small> Dispersed / Top / Middle / Bottom | | <small>Coolant Location:</small> Dispersed / Top / Middle / Bottom | |
| <small>Temp Blank Present:</small> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | <small>Temp Blank Present:</small> <input type="checkbox"/> Yes <input type="checkbox"/> No | | <small>Temp Blank Present:</small> <input type="checkbox"/> Yes <input type="checkbox"/> No | | <small>Temp Blank Present:</small> <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| <small>If Present, Temperature Blank Location is:</small> <input checked="" type="checkbox"/> Representative <input type="checkbox"/> Not Representative | | <small>If Present, Temperature Blank Location is:</small> <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative | | <small>If Present, Temperature Blank Location is:</small> <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative | | <small>If Present, Temperature Blank Location is:</small> <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative | |
| <small>Observed °C</small> | <small>Correction Factor °C</small> | <small>Actual °C</small> | <small>Observed °C</small> | <small>Correction Factor °C</small> | <small>Actual °C</small> | <small>Observed °C</small> | <small>Correction Factor °C</small> |
| <i>1.6</i> | <i>-</i> | <i>1.6</i> | | | | | |
| <i>3.6</i> | <i>-</i> | <i>3.6</i> | | | | | |
| <i>3.0</i> | <i>-</i> | <i>3.0</i> | | | | | |
| <i>3.1</i> | <i>-</i> | <i>3.1</i> | | | | | |
| 3 Sample Average °C: <i>3.2</i> | | 3 Sample Average °C: | | 3 Sample Average °C: | | 3 Sample Average °C: | |
| <input checked="" type="checkbox"/> Cooler ID on COC? | | <input type="checkbox"/> Cooler ID on COC? | | <input type="checkbox"/> Cooler ID on COC? | | <input type="checkbox"/> Cooler ID on COC? | |
| <input type="checkbox"/> VOC Trip Blank received? | | <input type="checkbox"/> VOC Trip Blank received? | | <input type="checkbox"/> VOC Trip Blank received? | | <input type="checkbox"/> VOC Trip Blank received? | |

If any shaded areas checked, complete Sample Receiving Non-Conformance and/or Inventory Form

Paperwork Received

| | | |
|-------------------------------------|-------------------------------------|---|
| Yes | No | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Chain of Custody record(s)? If No, Initiated By _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Received for Lab Signed/Date/Time? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Shipping document? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other _____ |

COC Information

TriMatrix COC Other *149451*

COC ID Numbers:

Check COC for Accuracy

| | | |
|-------------------------------------|--------------------------|---|
| Yes | No | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Analysis Requested? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Sample ID matches COC? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Sample Date and Time matches COC? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Container type completed on COC? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | All container types indicated are received? |

Sample Condition Summary

| | | | |
|--------------------------|-------------------------------------|--------------------------|--|
| N/A | Yes | No | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Broken containers/lids? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Missing or incomplete labels? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Illegible information on labels? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Low volume received? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Inappropriate or non-TriMatrix containers received? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | VOC vials / TOX containers have headspace? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Extra sample locations / containers not listed on COC? |

Check Sample Preservation

| | | | |
|-------------------------------------|--------------------------|-------------------------------------|--|
| N/A | Yes | No | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Temperature Blank OR average sample temperature, ≥6° C? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | If either is ≥6° C, was thermal preservation required? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | If "Yes", Project Chemist Approval Initials: _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | If "Yes" Completed Non Con Cooler - Cont Inventory Form? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Completed Sample Preservation Verification Form? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Samples chemically preserved correctly? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | If "No", added orange tag? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Received pre-preserved VOC soils? |
| | | <input type="checkbox"/> | MeOH |
| | | <input type="checkbox"/> | Na ₂ SO ₄ |

Check for Short Hold-Time Prep/Analyses

| | |
|--------------------------|--|
| <input type="checkbox"/> | Bacteriological |
| <input type="checkbox"/> | Air Bags |
| <input type="checkbox"/> | EnCores / Methanol Pre-Preserved |
| <input type="checkbox"/> | Formaldehyde/Aldehyde |
| <input type="checkbox"/> | Green-tagged containers |
| <input type="checkbox"/> | Yellow/White-tagged 1 L ambers (SV Prep-Lab) |

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S)

NONE RECEIVED
 RECEIVED, COCs TO LAB(S)

Notes

Trip Blank received Trip Blank not listed on COC

| | | |
|---|---|---|
| <small>Cooler Received (Date/Time)</small> <i>11/4/14 0900</i> | <small>Paperwork Delivered (Date/Time)</small> <i>11/4/14 1146</i> | <small>≤1 Hour Goal Met?</small> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|---|---|---|

| | |
|------------------------------------|---|
| Client: <u>Pravie Konde Kealty</u> | Work Order #: <u>1411005</u> |
| Receipt Log #: <u>35-6</u> | Completed By (initials/date): <u>SK 11/4/14</u> |
| Project Chemist: _____ | |

| | | | | | | | | | | | |
|-------------------------|----------|--------------------------------|--------------------------------|-----------------------------------|------------------|------------------|--|--|--|--|--|
| COC ID #: <u>149451</u> | | | | Adjusted by: _____ Date: _____ | | | | DO NOT ADJUST pH FOR THESE CONTAINER TYPES | | | |
| Container Type | 5 / 23 | 4 | 13 | 3 | 6 | 15 | | | | | |
| Tag Color | Lt. Blue | Blue | Brown | Green | Red | Red Stripe | | | | | |
| Preservative | NaOH | H ₂ SO ₄ | H ₂ SO ₄ | None | HNO ₃ | HNO ₃ | | | | | |
| Expected pH | >12 | <2 | <2 | 6-8 | <2 | <2 | | | | | |
| COC Line #1 | | | | | ✓ | | | | | | |
| COC Line #2 | | | | | | | | | | | |
| COC Line #3 | | | | | | | | | | | |
| COC Line #4 | | | | | | | | | | | |
| COC Line #5 | | | | | | | | | | | |
| COC Line #6 | | | | | | | | | | | |
| COC Line #7 | | | | | | | | | | | |
| COC Line #8 | | | | | | | | | | | |
| COC Line #9 | | | | | | | | | | | |
| COC Line #10 | | | | | | | | | | | |

| |
|--|
| pH Strip Reagent # |
| <input checked="" type="checkbox"/> 4051306 <input type="checkbox"/> _____ |

Aqueous Samples: For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box, and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the sample to achieve the correct pH. Add up to, but do not exceed 2x the volume initially added at container prep (see table below for initial volumes used). Add orange pH tag to sample container and record information requested. Record adjusted pH on this form. Do not adjust pH for container types 3, 6, and 15.

Comments

| | | | | | | | | | | | |
|----------------|----------|--------------------------------|--------------------------------|-----------------------------------|------------------|------------------|--|--|--|--|--|
| COC ID # | | | | Adjusted by: _____ Date: _____ | | | | DO NOT ADJUST pH FOR THESE CONTAINER TYPES | | | |
| Container Type | 5 / 23 | 4 | 13 | 3 | 6 | 15 | | | | | |
| Tag Color | Lt. Blue | Blue | Brown | Green | Red | Red Stripe | | | | | |
| Preservative | NaOH | H ₂ SO ₄ | H ₂ SO ₄ | None | HNO ₃ | HNO ₃ | | | | | |
| Expected pH | >12 | <2 | <2 | 6-8 | <2 | <2 | | | | | |
| COC Line #1 | | | | | | | | | | | |
| COC Line #2 | | | | | | | | | | | |
| COC Line #3 | | | | | | | | | | | |
| COC Line #4 | | | | | | | | | | | |
| COC Line #5 | | | | | | | | | | | |
| COC Line #6 | | | | | | | | | | | |
| COC Line #7 | | | | | | | | | | | |
| COC Line #8 | | | | | | | | | | | |
| COC Line #9 | | | | | | | | | | | |
| COC Line #10 | | | | | | | | | | | |

| Container Size (mL) | Original Vol. of Preservative (mL) |
|---------------------|------------------------------------|
| Container Type 5 | NaOH |
| 500 | 2.5 |
| 1000 | 5.0 |
| Container Type 4 | H ₂ SO ₄ |
| 125 | 0.5 |
| 250 | 1.0 |
| 500 | 2.0 |
| 1000 | 4.0 |
| Container Type 13 | H ₂ SO ₄ |
| 500 | 2.5 |

Comments

November 21, 2014

Prairie Ronde Realty Company
Attn: Mr. R. David Mursch
104 Rivercliff Drive
Connelly Springs, NC 28612

Project: NCP Dowagiac, MI

Dear Mr. R. David Mursch,

Enclosed is a copy of the laboratory report for the following work order(s) received by TriMatrix Laboratories:

| Work Order | Received | Description |
|-------------------|-----------------|--------------------|
| 1411072 | 11/04/2014 | OSR |

This report relates only to the sample(s) as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) and/or one of the following certification programs:

ACCLASS DoD-ELAP/ISO17025 (#ADE-1542); Arkansas DEP (#88-0730/13-049-0); Florida DEP (#E87622-24); Georgia EPD (#E87622-24); Illinois DEP (#200026/003329); Kansas DPH (#E-10302); Kentucky DEP (#0021); Louisiana DEP (#103068); Michigan DPH (#0034); Minnesota DPH (#491715); New York ELAP (#11776/48855); North Carolina DNRE (#659); Texas CEQ (#T104704495-14-4); Virginia DCLS (#460153/2592); Wisconsin DNR (#999472650); USDA Soil Import Permit (#P330-12-00236).

Any qualification or narration of results, including sample acceptance requirements and test exceptions to the above referenced programs, is presented in the Statement of Data Qualifications and Project Technical Narrative sections of this report. Estimates of analytical uncertainties and certification documents for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,



Gary L. Wood
Project Chemist

US EPA ARCHIVE DOCUMENT

PROJECT TECHNICAL NARRATIVE(s)**Dissolved Gases in Water by RSK-175 Headspace Analysis**

Narrative: Due to sample volumes, batch matrix quality control (QC) was not performed for this analysis. A Method Blank and Laboratory Control Sample comprise the batch QC.

Analysis: RSK-175

Sample/Analyte: 1411072-01 98-215A
1411072-01 98-215A
1411072-01 98-215A
1411072-02 06-18/1
1411072-02 06-18/1
1411072-02 06-18/1
1411072-03 06-18/2
1411072-03 06-18/2
1411072-03 06-18/2
1411072-04 TW-2
1411072-04 TW-2
1411072-04 TW-2
1411072-05 TW-3
1411072-05 TW-3
1411072-05 TW-3
1411072-06 TW-4
1411072-06 TW-4
1411072-06 TW-4
1411072-07 96-201B
1411072-07 96-201B
1411072-07 96-201B
1411072-08 TW-1
1411072-08 TW-1
1411072-08 TW-1
1411072-09 97-214B
1411072-09 97-214B
1411072-09 97-214B
1411072-10 IW-1
1411072-10 IW-1
1411072-10 IW-1

PROJECT TECHNICAL NARRATIVE(s)**Volatile Organic Compounds by EPA Method 8260B**

Narrative: The chemical utilized to preserve this sample has the potential to degrade 2-chloroethyl vinyl ether through polymerization or other rapid chemical reaction.

Analysis: USEPA-8260B

Sample/Analyte: 1411072-01 98-215A
1411072-02 06-18/1
1411072-03 06-18/2
1411072-04 TW-2
1411072-05 TW-3
1411072-06 TW-4
1411072-07 96-201B
1411072-08 TW-1
1411072-08RE1 TW-1
1411072-09 97-214B
1411072-10 IW-1
1411072-10RE1 IW-1

STATEMENT OF DATA QUALIFICATIONS**Volatile Organic Compounds by EPA Method 8260B**

Qualification: The result for this analyte was above the linear range of the initial calibration curve and must be considered as estimated "E".

Analysis: USEPA-8260B

| | | | |
|-----------------|---------------|------|------------------------|
| Sample/Analyte: | 1411072-08RE1 | TW-1 | cis-1,2-Dichloroethene |
| | 1411072-10RE1 | IW-1 | cis-1,2-Dichloroethene |
| | 1411072-10RE1 | IW-1 | Vinyl Chloride |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-215A**
 Lab Sample ID: **1411072-01**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 15:35
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|----------|-------------------|-----|------|-----------------|---------|--------------------|-----|----------|
| Ethane | 8.8 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 13:17 | JMF | 1412536 |
| Methane | 220 | 5.0 | ug/L | 10 | RSK-175 | 11/13/14 13:22 | JMF | 1412536 |
| Ethylene | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 13:17 | JMF | 1412536 |

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411072 |
| Project: NCP Dowagiac, MI | Description: OSR |
| Client Sample ID: 98-215A | Sampled: 10/31/14 15:35 |
| Lab Sample ID: 1411072-01 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 1 | Analyzed: 11/06/14 14:12 By: DLV |
| QC Batch: 1412493 | Analytical Batch: 4K07019 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|------|
| 67-64-1 | Acetone | <5.0 | 5.0 |
| 71-43-2 | Benzene | <1.0 | 1.0 |
| 75-27-4 | Bromodichloromethane | <0.25 | 0.25 |
| 75-15-0 | Carbon Disulfide | <5.0 | 5.0 |
| 56-23-5 | Carbon Tetrachloride | <1.0 | 1.0 |
| 108-90-7 | Chlorobenzene | <1.0 | 1.0 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <5.0 | 5.0 |
| 67-66-3 | Chloroform | <0.25 | 0.25 |
| 74-87-3 | Chloromethane | <1.0 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | <1.0 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | <1.0 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | <1.0 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | <1.0 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | <1.0 | 1.0 |
| 156-59-2 | cis-1,2-Dichloroethene | 5.0 | 1.0 |
| 156-60-5 | trans-1,2-Dichloroethene | <1.0 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | <1.0 | 1.0 |
| 100-41-4 | Ethylbenzene | <1.0 | 1.0 |
| 591-78-6 | 2-Hexanone | <5.0 | 5.0 |
| 75-09-2 | Methylene Chloride | <1.0 | 1.0 |
| 78-93-3 | 2-Butanone (MEK) | <5.0 | 5.0 |
| 100-42-5 | Styrene | <1.0 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <0.50 | 0.50 |
| 127-18-4 | Tetrachloroethene | <1.0 | 1.0 |
| 108-88-3 | Toluene | <1.0 | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | <1.0 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <1.0 | 1.0 |
| 79-01-6 | Trichloroethene | 19 | 1.0 |
| 75-01-4 | Vinyl Chloride | <1.0 | 1.0 |

Continued on next page

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411072 |
| Project: NCP Dowagiac, MI | Description: OSR |
| Client Sample ID: 98-215A | Sampled: 10/31/14 15:35 |
| Lab Sample ID: 1411072-01 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 1 | Analyzed: 11/06/14 14:12 By: DLV |
| QC Batch: 1412493 | Analytical Batch: 4K07019 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|------------------------------|-------------------|-----------------------|-----|
| 1330-20-7 | Xylene (Total) | <3.0 | 3.0 |
| Surrogates: | | | |
| | % Recovery | Control Limits | |
| <i>Dibromofluoromethane</i> | <i>98</i> | <i>85-118</i> | |
| <i>1,2-Dichloroethane-d4</i> | <i>95</i> | <i>87-122</i> | |
| <i>Toluene-d8</i> | <i>99</i> | <i>85-113</i> | |
| <i>4-Bromofluorobenzene</i> | <i>94</i> | <i>82-110</i> | |

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-215A**
 Lab Sample ID: **1411072-01**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 15:35
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | <1.0 | 1.0 | ug/L | 1 | USEPA-6020A | 11/12/14 12:55 | DSC | 1412448 |
| Iron | <10 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:31 | CKD | 1412445 |
| Manganese | 28 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:31 | CKD | 1412445 |

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-215A**
 Lab Sample ID: **1411072-01**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 15:35
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------------|-------------------|------|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 5.8 | 0.50 | mg/L | 1 | SM 5310 C-2011 | 11/13/14 03:24 | KAR | 1412814 |

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **06-18/1**
 Lab Sample ID: **1411072-02**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 16:05
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|----------|-------------------|-----|------|-----------------|---------|--------------------|-----|----------|
| Ethane | 97 | 2.0 | ug/L | 2 | RSK-175 | 11/13/14 13:26 | JMF | 1412536 |
| Methane | 2600 | 50 | ug/L | 100 | RSK-175 | 11/13/14 13:42 | JMF | 1412536 |
| Ethylene | 1100 | 20 | ug/L | 20 | RSK-175 | 11/13/14 13:36 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411072 |
| Project: NCP Dowagiac, MI | Description: OSR |
| Client Sample ID: 06-18/1 | Sampled: 10/31/14 16:05 |
| Lab Sample ID: 1411072-02 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 1 | Analyzed: 11/06/14 14:40 By: DLV |
| QC Batch: 1412493 | Analytical Batch: 4K07019 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|------|
| 67-64-1 | Acetone | <5.0 | 5.0 |
| 71-43-2 | Benzene | <1.0 | 1.0 |
| 75-27-4 | Bromodichloromethane | <0.25 | 0.25 |
| 75-15-0 | Carbon Disulfide | <5.0 | 5.0 |
| 56-23-5 | Carbon Tetrachloride | <1.0 | 1.0 |
| 108-90-7 | Chlorobenzene | <1.0 | 1.0 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <5.0 | 5.0 |
| 67-66-3 | Chloroform | <0.25 | 0.25 |
| 74-87-3 | Chloromethane | <1.0 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | <1.0 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | <1.0 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | 150 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | <1.0 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | <1.0 | 1.0 |
| 156-59-2 | cis-1,2-Dichloroethene | 9.8 | 1.0 |
| 156-60-5 | trans-1,2-Dichloroethene | <1.0 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | <1.0 | 1.0 |
| 100-41-4 | Ethylbenzene | <1.0 | 1.0 |
| 591-78-6 | 2-Hexanone | <5.0 | 5.0 |
| 75-09-2 | Methylene Chloride | <1.0 | 1.0 |
| 78-93-3 | 2-Butanone (MEK) | 10 | 5.0 |
| 100-42-5 | Styrene | <1.0 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <0.50 | 0.50 |
| 127-18-4 | Tetrachloroethene | <1.0 | 1.0 |
| 108-88-3 | Toluene | <1.0 | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | 18 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <1.0 | 1.0 |
| 79-01-6 | Trichloroethene | 8.8 | 1.0 |
| 75-01-4 | Vinyl Chloride | 54 | 1.0 |

Continued on next page

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411072 |
| Project: | NCP Dowagiac, MI | Description: | OSR |
| Client Sample ID: | 06-18/1 | Sampled: | 10/31/14 16:05 |
| Lab Sample ID: | 1411072-02 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/06/14 08:00 By: DLV |
| Dilution Factor: | 1 | Analyzed: | 11/06/14 14:40 By: DLV |
| QC Batch: | 1412493 | Analytical Batch: | 4K07019 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| 1330-20-7 | Xylene (Total) | <3.0 | 3.0 |
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | <i>102</i> | <i>85-118</i> |
| | <i>1,2-Dichloroethane-d4</i> | <i>97</i> | <i>87-122</i> |
| | <i>Toluene-d8</i> | <i>99</i> | <i>85-113</i> |
| | <i>4-Bromofluorobenzene</i> | <i>95</i> | <i>82-110</i> |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **06-18/1**
 Lab Sample ID: **1411072-02**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 16:05
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | 8.4 | 1.0 | ug/L | 1 | USEPA-6020A | 11/12/14 13:11 | DSC | 1412448 |
| Iron | 2800 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:43 | CKD | 1412445 |
| Manganese | 150 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:43 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **06-18/1**
 Lab Sample ID: **1411072-02**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 16:05
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------------------|-------------------|-----|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 26 | 2.5 | mg/L | 5 | SM 5310 C-2011 | 11/13/14 03:35 | KAR | 1412814 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **06-18/2**
 Lab Sample ID: **1411072-03**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 16:30
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------|-------------------|------|------|-----------------|---------|--------------------|-----|----------|
| Ethane | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 13:46 | JMF | 1412536 |
| Methane | 6.2 | 0.50 | ug/L | 1 | RSK-175 | 11/13/14 13:46 | JMF | 1412536 |
| Ethylene | 1.3 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 13:46 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411072 |
| Project: NCP Dowagiac, MI | Description: OSR |
| Client Sample ID: 06-18/2 | Sampled: 10/31/14 16:30 |
| Lab Sample ID: 1411072-03 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/11/14 07:00 By: DLV |
| Dilution Factor: 2.5 | Analyzed: 11/11/14 13:16 By: DLV |
| QC Batch: 1412672 | Analytical Batch: 4K11041 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|------|
| 67-64-1 | Acetone | <12 | 12 |
| 71-43-2 | Benzene | <2.5 | 2.5 |
| 75-27-4 | Bromodichloromethane | <0.62 | 0.62 |
| 75-15-0 | Carbon Disulfide | <12 | 12 |
| 56-23-5 | Carbon Tetrachloride | <2.5 | 2.5 |
| 108-90-7 | Chlorobenzene | <2.5 | 2.5 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <12 | 12 |
| 67-66-3 | Chloroform | <0.62 | 0.62 |
| 74-87-3 | Chloromethane | <2.5 | 2.5 |
| 95-50-1 | 1,2-Dichlorobenzene | <2.5 | 2.5 |
| 106-46-7 | 1,4-Dichlorobenzene | <2.5 | 2.5 |
| 75-34-3 | 1,1-Dichloroethane | <2.5 | 2.5 |
| 107-06-2 | 1,2-Dichloroethane | <2.5 | 2.5 |
| 75-35-4 | 1,1-Dichloroethene | <2.5 | 2.5 |
| 156-59-2 | cis-1,2-Dichloroethene | 33 | 2.5 |
| 156-60-5 | trans-1,2-Dichloroethene | <2.5 | 2.5 |
| 78-87-5 | 1,2-Dichloropropane | <2.5 | 2.5 |
| 100-41-4 | Ethylbenzene | <2.5 | 2.5 |
| 591-78-6 | 2-Hexanone | <12 | 12 |
| 75-09-2 | Methylene Chloride | <2.5 | 2.5 |
| 78-93-3 | 2-Butanone (MEK) | <12 | 12 |
| 100-42-5 | Styrene | <2.5 | 2.5 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <1.2 | 1.2 |
| 127-18-4 | Tetrachloroethene | <2.5 | 2.5 |
| 108-88-3 | Toluene | <2.5 | 2.5 |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | 2.5 |
| 79-00-5 | 1,1,2-Trichloroethane | <2.5 | 2.5 |
| 79-01-6 | Trichloroethene | 230 | 2.5 |
| 75-01-4 | Vinyl Chloride | <2.5 | 2.5 |

Continued on next page

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411072 |
| Project: | NCP Dowagiac, MI | Description: | OSR |
| Client Sample ID: | 06-18/2 | Sampled: | 10/31/14 16:30 |
| Lab Sample ID: | 1411072-03 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/11/14 07:00 By: DLV |
| Dilution Factor: | 2.5 | Analyzed: | 11/11/14 13:16 By: DLV |
| QC Batch: | 1412672 | Analytical Batch: | 4K11041 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| 1330-20-7 | Xylene (Total) | <7.5 | 7.5 |
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | 99 | 85-118 |
| | <i>1,2-Dichloroethane-d4</i> | 96 | 87-122 |
| | <i>Toluene-d8</i> | 100 | 85-113 |
| | <i>4-Bromofluorobenzene</i> | 96 | 82-110 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **06-18/2**
 Lab Sample ID: **1411072-03**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 16:30
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | <1.0 | 1.0 | ug/L | 1 | USEPA-6020A | 11/12/14 13:20 | DSC | 1412448 |
| Iron | 71 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:46 | CKD | 1412445 |
| Manganese | <10 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:46 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **06-18/2**
 Lab Sample ID: **1411072-03**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 16:30
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------------|-------------------|------|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 0.64 | 0.50 | mg/L | 1 | SM 5310 C-2011 | 11/13/14 03:58 | KAR | 1412814 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **TW-2**
 Lab Sample ID: **1411072-04**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 18:00
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|----------|-------------------|-----|------|-----------------|---------|--------------------|-----|----------|
| Ethane | 31 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 13:52 | JMF | 1412536 |
| Methane | 5000 | 100 | ug/L | 200 | RSK-175 | 11/13/14 13:58 | JMF | 1412536 |
| Ethylene | 110 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 13:52 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411072 |
| Project: NCP Dowagiac, MI | Description: OSR |
| Client Sample ID: TW-2 | Sampled: 10/31/14 18:00 |
| Lab Sample ID: 1411072-04 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 5 | Analyzed: 11/06/14 15:37 By: DLV |
| QC Batch: 1412493 | Analytical Batch: 4K07019 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|-----|
| 67-64-1 | Acetone | <25 | 25 |
| 71-43-2 | Benzene | <5.0 | 5.0 |
| 75-27-4 | Bromodichloromethane | <1.2 | 1.2 |
| 75-15-0 | Carbon Disulfide | <25 | 25 |
| 56-23-5 | Carbon Tetrachloride | <5.0 | 5.0 |
| 108-90-7 | Chlorobenzene | <5.0 | 5.0 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <25 | 25 |
| 67-66-3 | Chloroform | <1.2 | 1.2 |
| 74-87-3 | Chloromethane | <5.0 | 5.0 |
| 95-50-1 | 1,2-Dichlorobenzene | <5.0 | 5.0 |
| 106-46-7 | 1,4-Dichlorobenzene | <5.0 | 5.0 |
| 75-34-3 | 1,1-Dichloroethane | 37 | 5.0 |
| 107-06-2 | 1,2-Dichloroethane | <5.0 | 5.0 |
| 75-35-4 | 1,1-Dichloroethene | <5.0 | 5.0 |
| 156-59-2 | cis-1,2-Dichloroethene | 33 | 5.0 |
| 156-60-5 | trans-1,2-Dichloroethene | <5.0 | 5.0 |
| 78-87-5 | 1,2-Dichloropropane | <5.0 | 5.0 |
| 100-41-4 | Ethylbenzene | <5.0 | 5.0 |
| 591-78-6 | 2-Hexanone | <25 | 25 |
| 75-09-2 | Methylene Chloride | <5.0 | 5.0 |
| 78-93-3 | 2-Butanone (MEK) | <25 | 25 |
| 100-42-5 | Styrene | <5.0 | 5.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <2.5 | 2.5 |
| 127-18-4 | Tetrachloroethene | <5.0 | 5.0 |
| 108-88-3 | Toluene | <5.0 | 5.0 |
| 71-55-6 | 1,1,1-Trichloroethane | 6.8 | 5.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <5.0 | 5.0 |
| 79-01-6 | Trichloroethene | <5.0 | 5.0 |
| 75-01-4 | Vinyl Chloride | 580 | 5.0 |

Continued on next page

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411072 |
| Project: | NCP Dowagiac, MI | Description: | OSR |
| Client Sample ID: | TW-2 | Sampled: | 10/31/14 18:00 |
| Lab Sample ID: | 1411072-04 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/06/14 08:00 By: DLV |
| Dilution Factor: | 5 | Analyzed: | 11/06/14 15:37 By: DLV |
| QC Batch: | 1412493 | Analytical Batch: | 4K07019 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| 1330-20-7 | Xylene (Total) | <15 | 15 |
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | 98 | 85-118 |
| | <i>1,2-Dichloroethane-d4</i> | 96 | 87-122 |
| | <i>Toluene-d8</i> | 99 | 85-113 |
| | <i>4-Bromofluorobenzene</i> | 95 | 82-110 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **TW-2**
 Lab Sample ID: **1411072-04**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 18:00
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | 14 | 1.0 | ug/L | 1 | USEPA-6020A | 11/12/14 13:24 | DSC | 1412448 |
| Iron | 7400 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:50 | CKD | 1412445 |
| Manganese | 190 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:50 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **TW-2**
 Lab Sample ID: **1411072-04**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 18:00
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------------------|-------------------|-----|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 36 | 2.5 | mg/L | 5 | SM 5310 C-2011 | 11/13/14 04:09 | KAR | 1412814 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **TW-3**
 Lab Sample ID: **1411072-05**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 18:35
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|----------|-------------------|-----|------|-----------------|---------|--------------------|-----|----------|
| Ethane | 37 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 14:07 | JMF | 1412536 |
| Methane | 740 | 10 | ug/L | 20 | RSK-175 | 11/13/14 14:11 | JMF | 1412536 |
| Ethylene | 110 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 14:07 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411072 |
| Project: NCP Dowagiac, MI | Description: OSR |
| Client Sample ID: TW-3 | Sampled: 10/31/14 18:35 |
| Lab Sample ID: 1411072-05 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 2 | Analyzed: 11/06/14 16:05 By: DLV |
| QC Batch: 1412493 | Analytical Batch: 4K07019 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|------|
| 67-64-1 | Acetone | <10 | 10 |
| 71-43-2 | Benzene | <2.0 | 2.0 |
| 75-27-4 | Bromodichloromethane | <0.50 | 0.50 |
| 75-15-0 | Carbon Disulfide | <10 | 10 |
| 56-23-5 | Carbon Tetrachloride | <2.0 | 2.0 |
| 108-90-7 | Chlorobenzene | <2.0 | 2.0 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <10 | 10 |
| 67-66-3 | Chloroform | <0.50 | 0.50 |
| 74-87-3 | Chloromethane | <2.0 | 2.0 |
| 95-50-1 | 1,2-Dichlorobenzene | <2.0 | 2.0 |
| 106-46-7 | 1,4-Dichlorobenzene | <2.0 | 2.0 |
| 75-34-3 | 1,1-Dichloroethane | 33 | 2.0 |
| 107-06-2 | 1,2-Dichloroethane | <2.0 | 2.0 |
| 75-35-4 | 1,1-Dichloroethene | <2.0 | 2.0 |
| 156-59-2 | cis-1,2-Dichloroethene | 180 | 2.0 |
| 156-60-5 | trans-1,2-Dichloroethene | <2.0 | 2.0 |
| 78-87-5 | 1,2-Dichloropropane | <2.0 | 2.0 |
| 100-41-4 | Ethylbenzene | <2.0 | 2.0 |
| 591-78-6 | 2-Hexanone | <10 | 10 |
| 75-09-2 | Methylene Chloride | <2.0 | 2.0 |
| 78-93-3 | 2-Butanone (MEK) | <10 | 10 |
| 100-42-5 | Styrene | <2.0 | 2.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 |
| 127-18-4 | Tetrachloroethene | <2.0 | 2.0 |
| 108-88-3 | Toluene | <2.0 | 2.0 |
| 71-55-6 | 1,1,1-Trichloroethane | 21 | 2.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <2.0 | 2.0 |
| 79-01-6 | Trichloroethene | 30 | 2.0 |
| 75-01-4 | Vinyl Chloride | 130 | 2.0 |

Continued on next page

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411072 |
| Project: | NCP Dowagiac, MI | Description: | OSR |
| Client Sample ID: | TW-3 | Sampled: | 10/31/14 18:35 |
| Lab Sample ID: | 1411072-05 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/06/14 08:00 By: DLV |
| Dilution Factor: | 2 | Analyzed: | 11/06/14 16:05 By: DLV |
| QC Batch: | 1412493 | Analytical Batch: | 4K07019 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| 1330-20-7 | Xylene (Total) | <6.0 | 6.0 |
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | <i>101</i> | <i>85-118</i> |
| | <i>1,2-Dichloroethane-d4</i> | <i>96</i> | <i>87-122</i> |
| | <i>Toluene-d8</i> | <i>98</i> | <i>85-113</i> |
| | <i>4-Bromofluorobenzene</i> | <i>94</i> | <i>82-110</i> |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **TW-3**
 Lab Sample ID: **1411072-05**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 18:35
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | 4.4 | 1.0 | ug/L | 1 | USEPA-6020A | 11/12/14 13:27 | DSC | 1412448 |
| Iron | 2800 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:54 | CKD | 1412445 |
| Manganese | 670 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:54 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **TW-3**
 Lab Sample ID: **1411072-05**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 18:35
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------------|-------------------|-----|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 5.8 | 1.0 | mg/L | 2 | SM 5310 C-2011 | 11/13/14 04:21 | KAR | 1412814 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **TW-4**
 Lab Sample ID: **1411072-06**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 19:00
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------|-------------------|-----|------|-----------------|---------|--------------------|-----|----------|
| Ethane | 1.8 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 14:16 | JMF | 1412536 |
| Methane | 430 | 5.0 | ug/L | 10 | RSK-175 | 11/13/14 14:20 | JMF | 1412536 |
| Ethylene | 5.8 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 14:16 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411072 |
| Project: NCP Dowagiac, MI | Description: OSR |
| Client Sample ID: TW-4 | Sampled: 10/31/14 19:00 |
| Lab Sample ID: 1411072-06 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 1 | Analyzed: 11/06/14 16:34 By: DLV |
| QC Batch: 1412493 | Analytical Batch: 4K07019 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|------|
| 67-64-1 | Acetone | <5.0 | 5.0 |
| 71-43-2 | Benzene | <1.0 | 1.0 |
| 75-27-4 | Bromodichloromethane | <0.25 | 0.25 |
| 75-15-0 | Carbon Disulfide | <5.0 | 5.0 |
| 56-23-5 | Carbon Tetrachloride | <1.0 | 1.0 |
| 108-90-7 | Chlorobenzene | <1.0 | 1.0 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <5.0 | 5.0 |
| 67-66-3 | Chloroform | <0.25 | 0.25 |
| 74-87-3 | Chloromethane | <1.0 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | <1.0 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | <1.0 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | <1.0 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | <1.0 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | <1.0 | 1.0 |
| 156-59-2 | cis-1,2-Dichloroethene | <1.0 | 1.0 |
| 156-60-5 | trans-1,2-Dichloroethene | <1.0 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | <1.0 | 1.0 |
| 100-41-4 | Ethylbenzene | <1.0 | 1.0 |
| 591-78-6 | 2-Hexanone | <5.0 | 5.0 |
| 75-09-2 | Methylene Chloride | <1.0 | 1.0 |
| 78-93-3 | 2-Butanone (MEK) | <5.0 | 5.0 |
| 100-42-5 | Styrene | <1.0 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <0.50 | 0.50 |
| 127-18-4 | Tetrachloroethene | <1.0 | 1.0 |
| 108-88-3 | Toluene | <1.0 | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | <1.0 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <1.0 | 1.0 |
| 79-01-6 | Trichloroethene | <1.0 | 1.0 |
| 75-01-4 | Vinyl Chloride | 12 | 1.0 |

Continued on next page

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411072 |
| Project: | NCP Dowagiac, MI | Description: | OSR |
| Client Sample ID: | TW-4 | Sampled: | 10/31/14 19:00 |
| Lab Sample ID: | 1411072-06 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/06/14 08:00 By: DLV |
| Dilution Factor: | 1 | Analyzed: | 11/06/14 16:34 By: DLV |
| QC Batch: | 1412493 | Analytical Batch: | 4K07019 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| 1330-20-7 | Xylene (Total) | <3.0 | 3.0 |
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | 98 | 85-118 |
| | <i>1,2-Dichloroethane-d4</i> | 98 | 87-122 |
| | <i>Toluene-d8</i> | 101 | 85-113 |
| | <i>4-Bromofluorobenzene</i> | 96 | 82-110 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **TW-4**
 Lab Sample ID: **1411072-06**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 19:00
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | 9.3 | 1.0 | ug/L | 1 | USEPA-6020A | 11/12/14 13:30 | DSC | 1412448 |
| Iron | 3800 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:58 | CKD | 1412445 |
| Manganese | 78 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:58 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **TW-4**
 Lab Sample ID: **1411072-06**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 10/31/14 19:00
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------------|-------------------|------|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 0.82 | 0.50 | mg/L | 1 | SM 5310 C-2011 | 11/13/14 04:33 | KAR | 1412814 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **96-201B**
 Lab Sample ID: **1411072-07**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 11/01/14 10:00
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|----------------|-------------------|------|------|-----------------|---------|--------------------|-----|----------|
| Ethane | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 14:24 | JMF | 1412536 |
| Methane | 0.53 | 0.50 | ug/L | 1 | RSK-175 | 11/13/14 14:24 | JMF | 1412536 |
| Ethylene | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 14:24 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411072 |
| Project: NCP Dowagiac, MI | Description: OSR |
| Client Sample ID: 96-201B | Sampled: 11/01/14 10:00 |
| Lab Sample ID: 1411072-07 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 1 | Analyzed: 11/06/14 17:02 By: DLV |
| QC Batch: 1412493 | Analytical Batch: 4K07019 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|------|
| 67-64-1 | Acetone | <5.0 | 5.0 |
| 71-43-2 | Benzene | <1.0 | 1.0 |
| 75-27-4 | Bromodichloromethane | <0.25 | 0.25 |
| 75-15-0 | Carbon Disulfide | <5.0 | 5.0 |
| 56-23-5 | Carbon Tetrachloride | <1.0 | 1.0 |
| 108-90-7 | Chlorobenzene | <1.0 | 1.0 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <5.0 | 5.0 |
| 67-66-3 | Chloroform | <0.25 | 0.25 |
| 74-87-3 | Chloromethane | <1.0 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | <1.0 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | <1.0 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | <1.0 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | <1.0 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | <1.0 | 1.0 |
| 156-59-2 | cis-1,2-Dichloroethene | <1.0 | 1.0 |
| 156-60-5 | trans-1,2-Dichloroethene | <1.0 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | <1.0 | 1.0 |
| 100-41-4 | Ethylbenzene | <1.0 | 1.0 |
| 591-78-6 | 2-Hexanone | <5.0 | 5.0 |
| 75-09-2 | Methylene Chloride | <1.0 | 1.0 |
| 78-93-3 | 2-Butanone (MEK) | <5.0 | 5.0 |
| 100-42-5 | Styrene | <1.0 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <0.50 | 0.50 |
| 127-18-4 | Tetrachloroethene | <1.0 | 1.0 |
| 108-88-3 | Toluene | <1.0 | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | <1.0 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <1.0 | 1.0 |
| 79-01-6 | Trichloroethene | 5.2 | 1.0 |
| 75-01-4 | Vinyl Chloride | <1.0 | 1.0 |

Continued on next page

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **96-201B**
 Lab Sample ID: **1411072-07**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 1412493

Work Order: **1411072**
 Description: OSR
 Sampled: 11/01/14 10:00
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00
 Prepared: 11/06/14 08:00 By: DLV
 Analyzed: 11/06/14 17:02 By: DLV
 Analytical Batch: 4K07019

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| 1330-20-7 | Xylene (Total) | <3.0 | 3.0 |
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | 98 | 85-118 |
| | <i>1,2-Dichloroethane-d4</i> | 97 | 87-122 |
| | <i>Toluene-d8</i> | 99 | 85-113 |
| | <i>4-Bromofluorobenzene</i> | 94 | 82-110 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **96-201B**
 Lab Sample ID: **1411072-07**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 11/01/14 10:00
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | <1.0 | 1.0 | ug/L | 1 | USEPA-6020A | 11/12/14 13:33 | DSC | 1412448 |
| Iron | 45 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 13:02 | CKD | 1412445 |
| Manganese | <10 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 13:02 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **96-201B**
 Lab Sample ID: **1411072-07**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 11/01/14 10:00
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------------|-------------------|------|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 0.61 | 0.50 | mg/L | 1 | SM 5310 C-2011 | 11/13/14 04:44 | KAR | 1412814 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **TW-1**
 Lab Sample ID: **1411072-08**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 11/01/14 10:40
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------|-------------------|-----|------|-----------------|---------|--------------------|-----|----------|
| Ethane | 530 | 10 | ug/L | 10 | RSK-175 | 11/13/14 14:38 | JMF | 1412536 |
| Methane | 170 | 2.5 | ug/L | 5 | RSK-175 | 11/13/14 14:33 | JMF | 1412536 |
| Ethylene | 90 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 14:28 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411072 |
| Project: NCP Dowagiac, MI | Description: OSR |
| Client Sample ID: TW-1 | Sampled: 11/01/14 10:40 |
| Lab Sample ID: 1411072-08 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 1000 | Analyzed: 11/06/14 17:33 By: DLV |
| QC Batch: 1412493 | Analytical Batch: 4K07019 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|------|
| 67-64-1 | Acetone | <5000 | 5000 |
| 71-43-2 | Benzene | <1000 | 1000 |
| 75-27-4 | Bromodichloromethane | <250 | 250 |
| 75-15-0 | Carbon Disulfide | <5000 | 5000 |
| 56-23-5 | Carbon Tetrachloride | <1000 | 1000 |
| 108-90-7 | Chlorobenzene | <1000 | 1000 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <5000 | 5000 |
| 67-66-3 | Chloroform | <250 | 250 |
| 74-87-3 | Chloromethane | <1000 | 1000 |
| 95-50-1 | 1,2-Dichlorobenzene | <1000 | 1000 |
| 106-46-7 | 1,4-Dichlorobenzene | <1000 | 1000 |
| 75-34-3 | 1,1-Dichloroethane | <1000 | 1000 |
| 107-06-2 | 1,2-Dichloroethane | <1000 | 1000 |
| 75-35-4 | 1,1-Dichloroethene | <1000 | 1000 |
| 156-59-2 | cis-1,2-Dichloroethene | 130000 | 1000 |
| 156-60-5 | trans-1,2-Dichloroethene | <1000 | 1000 |
| 78-87-5 | 1,2-Dichloropropane | <1000 | 1000 |
| 100-41-4 | Ethylbenzene | <1000 | 1000 |
| 591-78-6 | 2-Hexanone | <5000 | 5000 |
| 75-09-2 | Methylene Chloride | <1000 | 1000 |
| 78-93-3 | 2-Butanone (MEK) | <5000 | 5000 |
| 100-42-5 | Styrene | <1000 | 1000 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <500 | 500 |
| 127-18-4 | Tetrachloroethene | <1000 | 1000 |
| 108-88-3 | Toluene | <1000 | 1000 |
| 71-55-6 | 1,1,1-Trichloroethane | 2700 | 1000 |
| 79-00-5 | 1,1,2-Trichloroethane | <1000 | 1000 |
| 79-01-6 | Trichloroethene | 1300 | 1000 |
| 75-01-4 | Vinyl Chloride | 1400 | 1000 |

Continued on next page

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **TW-1**
 Lab Sample ID: **1411072-08**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1000
 QC Batch: 1412493

Work Order: **1411072**
 Description: OSR
 Sampled: 11/01/14 10:40
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00
 Prepared: 11/06/14 08:00 By: DLV
 Analyzed: 11/06/14 17:33 By: DLV
 Analytical Batch: 4K07019

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| 1330-20-7 | Xylene (Total) | <3000 | 3000 |
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | 99 | 85-118 |
| | <i>1,2-Dichloroethane-d4</i> | 97 | 87-122 |
| | <i>Toluene-d8</i> | 98 | 85-113 |
| | <i>4-Bromofluorobenzene</i> | 95 | 82-110 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **TW-1**
 Lab Sample ID: **1411072-08**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 11/01/14 10:40
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | 45 | 1.0 | ug/L | 1 | USEPA-6020A | 11/12/14 13:36 | DSC | 1412448 |
| Iron | 65000 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 13:06 | CKD | 1412445 |
| Manganese | 1100 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 13:06 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **TW-1**
 Lab Sample ID: **1411072-08**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 11/01/14 10:40
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------------|-------------------|----|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 190 | 25 | mg/L | 50 | SM 5310 C-2011 | 11/13/14 04:56 | KAR | 1412814 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411072 |
| Project: NCP Dowagiac, MI | Description: OSR |
| Client Sample ID: TW-1 | Sampled: 11/01/14 10:40 |
| Lab Sample ID: 1411072-08RE1 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 100 | Analyzed: 11/11/14 13:45 By: DLV |
| QC Batch: 1412672 | Analytical Batch: 4K11041 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|-----|
| 67-64-1 | Acetone | <500 | 500 |
| 71-43-2 | Benzene | <100 | 100 |
| 75-27-4 | Bromodichloromethane | <25 | 25 |
| 75-15-0 | Carbon Disulfide | <500 | 500 |
| 56-23-5 | Carbon Tetrachloride | <100 | 100 |
| 108-90-7 | Chlorobenzene | <100 | 100 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <500 | 500 |
| 67-66-3 | Chloroform | <25 | 25 |
| 74-87-3 | Chloromethane | <100 | 100 |
| 95-50-1 | 1,2-Dichlorobenzene | <100 | 100 |
| 106-46-7 | 1,4-Dichlorobenzene | <100 | 100 |
| 75-34-3 | 1,1-Dichloroethane | 770 | 100 |
| 107-06-2 | 1,2-Dichloroethane | <100 | 100 |
| 75-35-4 | 1,1-Dichloroethene | 580 | 100 |
| *156-59-2 | cis-1,2-Dichloroethene | 150000 | 100 |
| 156-60-5 | trans-1,2-Dichloroethene | 780 | 100 |
| 78-87-5 | 1,2-Dichloropropane | <100 | 100 |
| 100-41-4 | Ethylbenzene | <100 | 100 |
| 591-78-6 | 2-Hexanone | <500 | 500 |
| 75-09-2 | Methylene Chloride | <100 | 100 |
| 78-93-3 | 2-Butanone (MEK) | <500 | 500 |
| 100-42-5 | Styrene | <100 | 100 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <50 | 50 |
| 127-18-4 | Tetrachloroethene | <100 | 100 |
| 108-88-3 | Toluene | <100 | 100 |
| 71-55-6 | 1,1,1-Trichloroethane | 3500 | 100 |
| 79-00-5 | 1,1,2-Trichloroethane | <100 | 100 |
| 79-01-6 | Trichloroethene | 1600 | 100 |
| 75-01-4 | Vinyl Chloride | 740 | 100 |
| 1330-20-7 | Xylene (Total) | <300 | 300 |

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411072 |
| Project: | NCP Dowagiac, MI | Description: | OSR |
| Client Sample ID: | TW-1 | Sampled: | 11/01/14 10:40 |
| Lab Sample ID: | 1411072-08RE1 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/06/14 08:00 By: DLV |
| Dilution Factor: | 100 | Analyzed: | 11/11/14 13:45 By: DLV |
| QC Batch: | 1412672 | Analytical Batch: | 4K11041 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | <i>104</i> | <i>85-118</i> |
| | <i>1,2-Dichloroethane-d4</i> | <i>97</i> | <i>87-122</i> |
| | <i>Toluene-d8</i> | <i>100</i> | <i>85-113</i> |
| | <i>4-Bromofluorobenzene</i> | <i>96</i> | <i>82-110</i> |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **97-214B**
 Lab Sample ID: **1411072-09**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 11/01/14 11:05
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------|-------------------|-----|------|-----------------|---------|--------------------|-----|----------|
| Ethane | 20 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 14:42 | JMF | 1412536 |
| Methane | 7000 | 200 | ug/L | 400 | RSK-175 | 11/13/14 14:48 | JMF | 1412536 |
| Ethylene | 6.6 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 14:42 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411072 |
| Project: NCP Dowagiac, MI | Description: OSR |
| Client Sample ID: 97-214B | Sampled: 11/01/14 11:05 |
| Lab Sample ID: 1411072-09 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 1 | Analyzed: 11/06/14 18:03 By: DLV |
| QC Batch: 1412493 | Analytical Batch: 4K07019 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|------|
| 67-64-1 | Acetone | <5.0 | 5.0 |
| 71-43-2 | Benzene | <1.0 | 1.0 |
| 75-27-4 | Bromodichloromethane | <0.25 | 0.25 |
| 75-15-0 | Carbon Disulfide | <5.0 | 5.0 |
| 56-23-5 | Carbon Tetrachloride | <1.0 | 1.0 |
| 108-90-7 | Chlorobenzene | <1.0 | 1.0 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <5.0 | 5.0 |
| 67-66-3 | Chloroform | <0.25 | 0.25 |
| 74-87-3 | Chloromethane | <1.0 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | <1.0 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | <1.0 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | <1.0 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | <1.0 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | <1.0 | 1.0 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.4 | 1.0 |
| 156-60-5 | trans-1,2-Dichloroethene | <1.0 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | <1.0 | 1.0 |
| 100-41-4 | Ethylbenzene | <1.0 | 1.0 |
| 591-78-6 | 2-Hexanone | <5.0 | 5.0 |
| 75-09-2 | Methylene Chloride | <1.0 | 1.0 |
| 78-93-3 | 2-Butanone (MEK) | 12 | 5.0 |
| 100-42-5 | Styrene | <1.0 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <0.50 | 0.50 |
| 127-18-4 | Tetrachloroethene | <1.0 | 1.0 |
| 108-88-3 | Toluene | <1.0 | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | <1.0 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <1.0 | 1.0 |
| 79-01-6 | Trichloroethene | <1.0 | 1.0 |
| 75-01-4 | Vinyl Chloride | 13 | 1.0 |

Continued on next page

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411072 |
| Project: | NCP Dowagiac, MI | Description: | OSR |
| Client Sample ID: | 97-214B | Sampled: | 11/01/14 11:05 |
| Lab Sample ID: | 1411072-09 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/06/14 08:00 By: DLV |
| Dilution Factor: | 1 | Analyzed: | 11/06/14 18:03 By: DLV |
| QC Batch: | 1412493 | Analytical Batch: | 4K07019 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| 1330-20-7 | Xylene (Total) | <3.0 | 3.0 |
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | 99 | 85-118 |
| | <i>1,2-Dichloroethane-d4</i> | 97 | 87-122 |
| | <i>Toluene-d8</i> | 99 | 85-113 |
| | <i>4-Bromofluorobenzene</i> | 95 | 82-110 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **97-214B**
 Lab Sample ID: **1411072-09**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 11/01/14 11:05
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | 17 | 1.0 | ug/L | 1 | USEPA-6020A | 11/12/14 13:40 | DSC | 1412448 |
| Iron | 6300 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 13:13 | CKD | 1412445 |
| Manganese | 220 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 13:13 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **97-214B**
 Lab Sample ID: **1411072-09**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 11/01/14 11:05
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------------|-------------------|-----|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 28 | 2.5 | mg/L | 5 | SM 5310 C-2011 | 11/13/14 05:36 | KAR | 1412814 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **IW-1**
 Lab Sample ID: **1411072-10**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 11/01/14 11:45
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|----------|-------------------|-----|------|-----------------|---------|--------------------|-----|----------|
| Ethane | 8.3 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 14:56 | JMF | 1412536 |
| Methane | 3300 | 50 | ug/L | 100 | RSK-175 | 11/13/14 15:07 | JMF | 1412536 |
| Ethylene | 3100 | 40 | ug/L | 40 | RSK-175 | 11/13/14 15:01 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411072 |
| Project: NCP Dowagiac, MI | Description: OSR |
| Client Sample ID: IW-1 | Sampled: 11/01/14 11:45 |
| Lab Sample ID: 1411072-10 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/11/14 07:00 By: DLV |
| Dilution Factor: 500 | Analyzed: 11/11/14 14:13 By: DLV |
| QC Batch: 1412672 | Analytical Batch: 4K11041 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|------|
| 67-64-1 | Acetone | <2500 | 2500 |
| 71-43-2 | Benzene | <500 | 500 |
| 75-27-4 | Bromodichloromethane | <120 | 120 |
| 75-15-0 | Carbon Disulfide | <2500 | 2500 |
| 56-23-5 | Carbon Tetrachloride | <500 | 500 |
| 108-90-7 | Chlorobenzene | <500 | 500 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <2500 | 2500 |
| 67-66-3 | Chloroform | <120 | 120 |
| 74-87-3 | Chloromethane | <500 | 500 |
| 95-50-1 | 1,2-Dichlorobenzene | <500 | 500 |
| 106-46-7 | 1,4-Dichlorobenzene | <500 | 500 |
| 75-34-3 | 1,1-Dichloroethane | 1300 | 500 |
| 107-06-2 | 1,2-Dichloroethane | <500 | 500 |
| 75-35-4 | 1,1-Dichloroethene | <500 | 500 |
| 156-59-2 | cis-1,2-Dichloroethene | 22000 | 500 |
| 156-60-5 | trans-1,2-Dichloroethene | <500 | 500 |
| 78-87-5 | 1,2-Dichloropropane | <500 | 500 |
| 100-41-4 | Ethylbenzene | <500 | 500 |
| 591-78-6 | 2-Hexanone | <2500 | 2500 |
| 75-09-2 | Methylene Chloride | <500 | 500 |
| 78-93-3 | 2-Butanone (MEK) | <2500 | 2500 |
| 100-42-5 | Styrene | <500 | 500 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <250 | 250 |
| 127-18-4 | Tetrachloroethene | <500 | 500 |
| 108-88-3 | Toluene | <500 | 500 |
| 71-55-6 | 1,1,1-Trichloroethane | <500 | 500 |
| 79-00-5 | 1,1,2-Trichloroethane | <500 | 500 |
| 79-01-6 | Trichloroethene | <500 | 500 |
| 75-01-4 | Vinyl Chloride | 62000 | 500 |

Continued on next page

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411072 |
| Project: | NCP Dowagiac, MI | Description: | OSR |
| Client Sample ID: | IW-1 | Sampled: | 11/01/14 11:45 |
| Lab Sample ID: | 1411072-10 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/11/14 07:00 By: DLV |
| Dilution Factor: | 500 | Analyzed: | 11/11/14 14:13 By: DLV |
| QC Batch: | 1412672 | Analytical Batch: | 4K11041 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|------------------------------|-------------------|-----------------------|------|
| 1330-20-7 | Xylene (Total) | <1500 | 1500 |
| Surrogates: | | | |
| | % Recovery | Control Limits | |
| <i>Dibromofluoromethane</i> | <i>100</i> | <i>85-118</i> | |
| <i>1,2-Dichloroethane-d4</i> | <i>98</i> | <i>87-122</i> | |
| <i>Toluene-d8</i> | <i>100</i> | <i>85-113</i> | |
| <i>4-Bromofluorobenzene</i> | <i>96</i> | <i>82-110</i> | |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **IW-1**
 Lab Sample ID: **1411072-10**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 11/01/14 11:45
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | 5.0 | 1.0 | ug/L | 1 | USEPA-6020A | 11/12/14 13:43 | DSC | 1412448 |
| Iron | 52000 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 13:17 | CKD | 1412445 |
| Manganese | 470 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 13:17 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **IW-1**
 Lab Sample ID: **1411072-10**
 Matrix: Water

Work Order: **1411072**
 Description: OSR
 Sampled: 11/01/14 11:45
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------------|-------------------|----|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 140 | 25 | mg/L | 50 | SM 5310 C-2011 | 11/13/14 05:47 | KAR | 1412814 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411072 |
| Project: NCP Dowagiac, MI | Description: OSR |
| Client Sample ID: IW-1 | Sampled: 11/01/14 11:45 |
| Lab Sample ID: 1411072-10RE1 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/11/14 07:00 By: DLV |
| Dilution Factor: 50 | Analyzed: 11/11/14 14:41 By: DLV |
| QC Batch: 1412672 | Analytical Batch: 4K11041 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|-----|
| 67-64-1 | Acetone | 370 | 250 |
| 71-43-2 | Benzene | <50 | 50 |
| 75-27-4 | Bromodichloromethane | <12 | 12 |
| 75-15-0 | Carbon Disulfide | <250 | 250 |
| 56-23-5 | Carbon Tetrachloride | <50 | 50 |
| 108-90-7 | Chlorobenzene | <50 | 50 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <250 | 250 |
| 67-66-3 | Chloroform | <12 | 12 |
| 74-87-3 | Chloromethane | <50 | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | <50 | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | <50 | 50 |
| 75-34-3 | 1,1-Dichloroethane | 1300 | 50 |
| 107-06-2 | 1,2-Dichloroethane | <50 | 50 |
| 75-35-4 | 1,1-Dichloroethene | 85 | 50 |
| *156-59-2 | cis-1,2-Dichloroethene | 22000 | 50 |
| 156-60-5 | trans-1,2-Dichloroethene | 94 | 50 |
| 78-87-5 | 1,2-Dichloropropane | <50 | 50 |
| 100-41-4 | Ethylbenzene | <50 | 50 |
| 591-78-6 | 2-Hexanone | <250 | 250 |
| 75-09-2 | Methylene Chloride | <50 | 50 |
| 78-93-3 | 2-Butanone (MEK) | <250 | 250 |
| 100-42-5 | Styrene | <50 | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <25 | 25 |
| 127-18-4 | Tetrachloroethene | <50 | 50 |
| 108-88-3 | Toluene | <50 | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | 180 | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | <50 | 50 |
| 79-01-6 | Trichloroethene | <50 | 50 |
| *75-01-4 | Vinyl Chloride | 59000 | 50 |
| 1330-20-7 | Xylene (Total) | <150 | 150 |

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411072 |
| Project: | NCP Dowagiac, MI | Description: | OSR |
| Client Sample ID: | IW-1 | Sampled: | 11/01/14 11:45 |
| Lab Sample ID: | 1411072-10RE1 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/11/14 07:00 By: DLV |
| Dilution Factor: | 50 | Analyzed: | 11/11/14 14:41 By: DLV |
| QC Batch: | 1412672 | Analytical Batch: | 4K11041 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | <i>102</i> | <i>85-118</i> |
| | <i>1,2-Dichloroethane-d4</i> | <i>98</i> | <i>87-122</i> |
| | <i>Toluene-d8</i> | <i>100</i> | <i>85-113</i> |
| | <i>4-Bromofluorobenzene</i> | <i>96</i> | <i>82-110</i> |

QUALITY CONTROL REPORT
Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Sample Conc. | Spike Qty. | Result | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|

QC Batch: 1412536 Method-Specific Extraction/RSK-175

Method Blank

Unit: ug/L

 Analyzed: 11/13/2014 By: JMF
 Analytical Batch: 4K14018

| | | | | | | | | |
|----------|--|--|-------|--|--|----|------|--|
| Ethane | | | <1.0 | | | | 1.0 | |
| Methane | | | <0.50 | | | -- | 0.50 | |
| Ethylene | | | <1.0 | | | | 1.0 | |

Laboratory Control Sample

Unit: ug/L

 Analyzed: 11/13/2014 By: JMF
 Analytical Batch: 4K14018

| | | | | | | | | |
|----------|------|-------------|--|----|--------|----|------|--|
| Ethane | 69.0 | 61.3 | | 89 | 67-122 | -- | 1.0 | |
| Methane | 34.1 | 30.4 | | 89 | 70-116 | -- | 0.50 | |
| Ethylene | 60.8 | 52.5 | | 86 | 67-121 | -- | 1.0 | |

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B

| Analyte | Sample Conc. | Spike Qty. | Result | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|-----------------|---------------|--------|-----------------|-------------------|-----|---------------|----|
|---------|-----------------|---------------|--------|-----------------|-------------------|-----|---------------|----|

QC Batch: 1412493 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank

Unit: ug/L

Analyzed: 11/06/2014 By: DLV
Analytical Batch: 4K07019

| | | | |
|---------------------------|-------|----|------|
| Acetone | <5.0 | -- | 5.0 |
| Benzene | <1.0 | | 1.0 |
| Bromodichloromethane | <0.25 | | 0.25 |
| Carbon Disulfide | <5.0 | | 5.0 |
| Carbon Tetrachloride | <1.0 | | 1.0 |
| Chlorobenzene | <1.0 | | 1.0 |
| 2-Chloroethyl Vinyl Ether | <5.0 | | 5.0 |
| Chloroform | <0.25 | -- | 0.25 |
| Chloromethane | <1.0 | | 1.0 |
| 1,2-Dichlorobenzene | <1.0 | | 1.0 |
| 1,4-Dichlorobenzene | <1.0 | -- | 1.0 |
| 1,1-Dichloroethane | <1.0 | | 1.0 |
| 1,2-Dichloroethane | <1.0 | | 1.0 |
| 1,1-Dichloroethene | <1.0 | | 1.0 |
| cis-1,2-Dichloroethene | <1.0 | | 1.0 |
| trans-1,2-Dichloroethene | <1.0 | | 1.0 |
| 1,2-Dichloropropane | <1.0 | | 1.0 |
| Ethylbenzene | <1.0 | | 1.0 |
| 2-Hexanone | <5.0 | | 5.0 |
| Methylene Chloride | <1.0 | | 1.0 |
| 2-Butanone (MEK) | <5.0 | | 5.0 |
| Styrene | <1.0 | | 1.0 |
| 1,1,2,2-Tetrachloroethane | <0.50 | | 0.50 |
| Tetrachloroethene | <1.0 | | 1.0 |
| Toluene | <1.0 | | 1.0 |
| 1,1,1-Trichloroethane | <1.0 | | 1.0 |
| 1,1,2-Trichloroethane | <1.0 | | 1.0 |
| Trichloroethene | <1.0 | | 1.0 |
| Vinyl Chloride | <1.0 | | 1.0 |
| Xylene (Total) | <3.0 | | 3.0 |

Surrogates:

| | | |
|------------------------------|----|--------|
| <i>Dibromofluoromethane</i> | 95 | 85-118 |
| <i>1,2-Dichloroethane-d4</i> | 92 | 87-122 |

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

| Analyte | Sample Conc. | Spike Qty. | Result | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|

QC Batch: 1412493 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued)

Unit: ug/L

Analyzed: 11/06/2014 By: DLV
Analytical Batch: 4K07019

Surrogates (Continued):

| | | |
|-----------------------------|----|--------|
| <i>Toluene-d8</i> | 97 | 85-113 |
| <i>4-Bromofluorobenzene</i> | 94 | 82-110 |

Laboratory Control Sample

Unit: ug/L

Analyzed: 11/06/2014 By: DLV
Analytical Batch: 4K07019

| | | | | | | |
|--------------------|------|-------------|-----|--------|----|-----|
| Benzene | 40.0 | 40.5 | 101 | 84-119 | -- | 1.0 |
| Chlorobenzene | 40.0 | 38.6 | 97 | 84-118 | -- | 1.0 |
| 1,1-Dichloroethene | 40.0 | 39.7 | 99 | 77-123 | -- | 1.0 |
| Toluene | 40.0 | 40.2 | 101 | 85-118 | -- | 1.0 |
| Trichloroethene | 40.0 | 42.4 | 106 | 82-119 | -- | 1.0 |

Surrogates:

| | | |
|------------------------------|-----|--------|
| <i>Dibromofluoromethane</i> | 99 | 85-118 |
| <i>1,2-Dichloroethane-d4</i> | 92 | 87-122 |
| <i>Toluene-d8</i> | 101 | 85-113 |
| <i>4-Bromofluorobenzene</i> | 97 | 82-110 |

Matrix Spike 1411072-01 98-215A

Unit: ug/L

Analyzed: 11/06/2014 By: DLV
Analytical Batch: 4K07019

| | | | | | | | |
|--------------------|------|------|-------------|-----|--------|----|-----|
| Benzene | <1.0 | 40.0 | 42.9 | 107 | 80-129 | -- | 1.0 |
| Chlorobenzene | <1.0 | 40.0 | 39.7 | 99 | 80-121 | -- | 1.0 |
| 1,1-Dichloroethene | <1.0 | 40.0 | 43.2 | 108 | 74-134 | -- | 1.0 |
| Toluene | <1.0 | 40.0 | 43.1 | 108 | 79-129 | -- | 1.0 |
| Trichloroethene | 18.9 | 40.0 | 63.0 | 110 | 75-127 | -- | 1.0 |

Surrogates:

| | | |
|------------------------------|-----|--------|
| <i>Dibromofluoromethane</i> | 102 | 85-118 |
| <i>1,2-Dichloroethane-d4</i> | 96 | 87-122 |
| <i>Toluene-d8</i> | 102 | 85-113 |
| <i>4-Bromofluorobenzene</i> | 102 | 82-110 |

Matrix Spike Duplicate 1411072-01 98-215A

Unit: ug/L

Analyzed: 11/06/2014 By: DLV
Analytical Batch: 4K07019

| | | | | | | | | |
|---------|------|------|-------------|-----|--------|---|---|-----|
| Benzene | <1.0 | 40.0 | 40.0 | 100 | 80-129 | 7 | 9 | 1.0 |
|---------|------|------|-------------|-----|--------|---|---|-----|

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

| Analyte | Sample Conc. | Spike Qty. | Result | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|

QC Batch: 1412493 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Matrix Spike Duplicate (Continued) 1411072-01 98-215A Analyzed: 11/06/2014 By: DLV
 Unit: ug/L Analytical Batch: 4K07019

| | | | | | | | | |
|--------------------|------|------|-------------|-----|--------|---|----|-----|
| Chlorobenzene | <1.0 | 40.0 | 37.4 | 94 | 80-121 | 6 | 8 | 1.0 |
| 1,1-Dichloroethene | <1.0 | 40.0 | 40.1 | 100 | 74-134 | 7 | 11 | 1.0 |
| Toluene | <1.0 | 40.0 | 40.0 | 100 | 79-129 | 7 | 9 | 1.0 |
| Trichloroethene | 18.9 | 40.0 | 58.9 | 100 | 75-127 | 7 | 10 | 1.0 |

Surrogates:

| | | | | | | | | |
|------------------------------|--|--|--|-----|--------|--|--|--|
| <i>Dibromofluoromethane</i> | | | | 102 | 85-118 | | | |
| <i>1,2-Dichloroethane-d4</i> | | | | 95 | 87-122 | | | |
| <i>Toluene-d8</i> | | | | 101 | 85-113 | | | |
| <i>4-Bromofluorobenzene</i> | | | | 100 | 82-110 | | | |

QC Batch: 1412672 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank Analyzed: 11/11/2014 By: DLV
 Unit: ug/L Analytical Batch: 4K11041

| | | | | | | | | |
|---------------------------|--|--|------------|--|--|----|--|------|
| Acetone | | | <5.0 | | | -- | | 5.0 |
| Benzene | | | <1.0 | | | | | 1.0 |
| Bromodichloromethane | | | <0.25 | | | | | 0.25 |
| Carbon Disulfide | | | 5.1 | | | -- | | 5.0 |
| Carbon Tetrachloride | | | <1.0 | | | | | 1.0 |
| Chlorobenzene | | | <1.0 | | | | | 1.0 |
| 2-Chloroethyl Vinyl Ether | | | <5.0 | | | | | 5.0 |
| Chloroform | | | <0.25 | | | | | 0.25 |
| Chloromethane | | | <1.0 | | | | | 1.0 |
| 1,2-Dichlorobenzene | | | <1.0 | | | | | 1.0 |
| 1,4-Dichlorobenzene | | | <1.0 | | | -- | | 1.0 |
| 1,1-Dichloroethane | | | <1.0 | | | | | 1.0 |
| 1,2-Dichloroethane | | | <1.0 | | | | | 1.0 |
| 1,1-Dichloroethene | | | <1.0 | | | | | 1.0 |
| cis-1,2-Dichloroethene | | | <1.0 | | | | | 1.0 |
| trans-1,2-Dichloroethene | | | <1.0 | | | | | 1.0 |
| 1,2-Dichloropropane | | | <1.0 | | | | | 1.0 |
| Ethylbenzene | | | <1.0 | | | | | 1.0 |
| 2-Hexanone | | | <5.0 | | | | | 5.0 |
| Methylene Chloride | | | <1.0 | | | | | 1.0 |

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

| Analyte | Sample Conc. | Spike Qty. | Result | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|

QC Batch: 1412672 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued)

Unit: ug/L Analyzed: 11/11/2014 By: DLV
Analytical Batch: 4K11041

| | | | | | | | | |
|---------------------------|--|--|-------|--|--|--|--|------|
| 2-Butanone (MEK) | | | <5.0 | | | | | 5.0 |
| Styrene | | | <1.0 | | | | | 1.0 |
| 1,1,2,2-Tetrachloroethane | | | <0.50 | | | | | 0.50 |
| Tetrachloroethene | | | <1.0 | | | | | 1.0 |
| Toluene | | | <1.0 | | | | | 1.0 |
| 1,1,1-Trichloroethane | | | <1.0 | | | | | 1.0 |
| 1,1,2-Trichloroethane | | | <1.0 | | | | | 1.0 |
| Trichloroethene | | | <1.0 | | | | | 1.0 |
| Vinyl Chloride | | | <1.0 | | | | | 1.0 |
| Xylene (Total) | | | <3.0 | | | | | 3.0 |

Surrogates:

| | | | | | | | | |
|------------------------------|--|--|--|----|--------|--|--|--|
| <i>Dibromofluoromethane</i> | | | | 98 | 85-118 | | | |
| <i>1,2-Dichloroethane-d4</i> | | | | 95 | 87-122 | | | |
| <i>Toluene-d8</i> | | | | 99 | 85-113 | | | |
| <i>4-Bromofluorobenzene</i> | | | | 97 | 82-110 | | | |

Laboratory Control Sample

Unit: ug/L Analyzed: 11/11/2014 By: DLV
Analytical Batch: 4K11041

| | | | | | | | | |
|--------------------|------|-------------|--|-----|--------|----|--|-----|
| Benzene | 40.0 | 44.3 | | 111 | 84-119 | -- | | 1.0 |
| Chlorobenzene | 40.0 | 40.1 | | 100 | 84-118 | -- | | 1.0 |
| 1,1-Dichloroethene | 40.0 | 44.3 | | 111 | 77-123 | -- | | 1.0 |
| Toluene | 40.0 | 44.4 | | 111 | 85-118 | -- | | 1.0 |
| Trichloroethene | 40.0 | 45.6 | | 114 | 82-119 | -- | | 1.0 |

Surrogates:

| | | | | | | | | |
|------------------------------|--|--|--|-----|--------|--|--|--|
| <i>Dibromofluoromethane</i> | | | | 102 | 85-118 | | | |
| <i>1,2-Dichloroethane-d4</i> | | | | 94 | 87-122 | | | |
| <i>Toluene-d8</i> | | | | 103 | 85-113 | | | |
| <i>4-Bromofluorobenzene</i> | | | | 101 | 82-110 | | | |

QUALITY CONTROL REPORT

Total Metals by EPA 6000/7000 Series Methods

| QC Type | Sample Conc. | Spike Qty. | Result | Unit | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|------|--------------|----------------|-----|------------|----|

Analyte: Arsenic/USEPA-6020A

| | | | | | | | | | |
|-------------------------------------|------|------|-------------|------|----|----------------------|---------|----|-----|
| QC Batch: 1412448 (3020A Digestion) | | | | | | Analyzed: 11/12/2014 | By: DSC | | |
| Method Blank | | | <1.0 | ug/L | | | | | 1.0 |
| Laboratory Control Sample | | 50.0 | 44.8 | ug/L | 90 | 80-120 | | | 1.0 |
| 1411072-01 [98-215A] | | | | | | | | | |
| Matrix Spike | <1.0 | 50.0 | 45.7 | ug/L | 91 | 75-125 | | | 1.0 |
| Matrix Spike Duplicate | <1.0 | 50.0 | 44.0 | ug/L | 88 | 75-125 | 4 | 20 | 1.0 |

Analyte: Iron/USEPA-6010C

| | | | | | | | | | |
|-------------------------------------|--|-----|------------|------|-----|----------------------|---------|--|----|
| QC Batch: 1412445 (3010A Digestion) | | | | | | Analyzed: 11/12/2014 | By: CKD | | |
| Method Blank | | | <10 | ug/L | | | | | 10 |
| Laboratory Control Sample | | 400 | 448 | ug/L | 112 | 80-120 | | | 10 |

Analyte: Manganese/USEPA-6010C

| | | | | | | | | | |
|-------------------------------------|--|-----|------------|------|-----|----------------------|---------|--|----|
| QC Batch: 1412445 (3010A Digestion) | | | | | | Analyzed: 11/12/2014 | By: CKD | | |
| Method Blank | | | <10 | ug/L | | | | | 10 |
| Laboratory Control Sample | | 400 | 446 | ug/L | 111 | 80-120 | | | 10 |

QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| QC Type | Sample Conc. | Spike Qty. | Result | Unit | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|-----------------|---------------|--------|------|-----------------|-------------------|-----|---------------|----|
|---------|-----------------|---------------|--------|------|-----------------|-------------------|-----|---------------|----|

Analyte: Carbon, Total Organic/SM 5310 C-2011

QC Batch: 1412814 (General Inorganic Prep)

Analyzed: 11/13/2014 By: KAR

| | | | | | | | | | |
|---------------------------|--|------|-------------|------|-----|--------|--|--|------|
| Method Blank | | | <0.50 | mg/L | | | | | 0.50 |
| Laboratory Control Sample | | 2.00 | 2.04 | mg/L | 102 | 84-118 | | | 0.50 |



5560 Corporate Exchange Court SE
Grand Rapids, MI 49512

Phone (616) 975-4500 Fax (616) 942-7463

www.trimatrixlabs.com

Chain of Custody Record

COC No.

1496687

Analyses Requested

Pg. 1 of 1

DSR

For Lab Use Only

Client Name: R. DAVID MURPHY
Address: 1st RIVERVIEW DR
City, State Zip: [blank]
Project Name: PRR
Client Project No. / P.O. No.: 916-01
Invoice To: PRR
Contact/Report To: RDM
Other (comments):

| | |
|------------|----|
| DD | CR |
| RSK | |
| TOC | |
| Fe, As, Mn | |

- PRESERVATIVES
- A NONE pH<7
 - B HNO₃ pH<2
 - C H₂SO₄ pH<2
 - D 1+1 HCl pH<2
 - E NaOH pH>12
 - F ZnAc/NaOH pH>9
 - G MeOH
 - H Other (note below)

| Schedule | Matrix Code | Sample Number | Field Sample ID | Cooler ID | Sample Date | Sample Time | Container Type (corresponds to Container Packing List) | Number of Containers Submitted | Total | Sample Comments |
|----------|-------------|---------------|-----------------|-----------|-------------|-------------|--|--------------------------------|-------|-----------------|
| 01 | | 01 | 98-215A | 3372 | 10/14/14 | 1535 | 1116 | 6 | | |
| 02 | | 02 | 06-18/1 | | 10/14/14 | 1605 | | 1 | | |
| 03 | | 03 | 06-18/2 | | 10/14/14 | 1630 | | 1 | | |
| 04 | | 04 | TW-2 | | 10/14/14 | 1800 | | 1 | | |
| 05 | | 05 | TW-3 | | 10/14/14 | 1835 | | 1 | | |
| 06 | | 06 | TW-4 | | 10/14/14 | 1900 | | 1 | | |
| 07 | | 07 | 9TG-201B | | 11-1-14 | 1000 | | 1 | | |
| 08 | | 08 | TW-1 | | 10/14/14 | 1040 | | 1 | | |
| 09 | | 09 | 97-214B | | 10/14/14 | 1105 | | 1 | | |
| 10 | | 10 | IW-1 | | 10/14/14 | 1145 | | 1 | | |

Comments: Tags with sample date of 1-1-14 should actually be dated 11-1-14

Sampled By (print): R. DAVID MURPHY
Sampler's Signature: [Signature]
Company: [Signature]

How Shipped? Tracking No.: [blank]
Carrier: FedEx
1. Requested By: [blank] Date: [blank] Time: [blank]
2. Received By: [blank] Date: [blank] Time: [blank]

3. Requested By: [blank] Date: [blank] Time: [blank]
4. Received For Lab By: [Signature] Date: 11/14/14 Time: 09:21

SAMPLE RECEIVING / LOG-IN CHECKLIST



| | |
|--------------------------------|--|
| Client: <u>R. David Muroch</u> | Work Order #: <u>1411072</u> |
| Record/Record Page/Line # | New / Add To Project Chemist Sample #s |

| | | | | |
|--|--|------------------------|---|---|
| Recorded by (initials/date): <u>AK 11/4/14</u> | <input checked="" type="checkbox"/> Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other | Qty Received: <u>1</u> | Thermometer Used <input checked="" type="checkbox"/> IR Gun (#202) <input type="checkbox"/> Digital Thermometer (#54) <input type="checkbox"/> Other (# _____) | <input type="checkbox"/> See Additional Cooler Information Form |
|--|--|------------------------|---|---|

| Cooler # | Time | Cooler # | Time | Cooler # | Time | Cooler # | Time | |
|---|----------------------|--|----------------------|--|-----------|--|----------------------|-----------|
| <u>TM3372</u> | <u>1635</u> | | | | | | | |
| Custody Seals: <input checked="" type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact | | Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact | | Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact | | Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact | | |
| Coolant Type: <input checked="" type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None | | Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None | | Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None | | Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None | | |
| Coolant Location: <input checked="" type="checkbox"/> Dispersed <input type="checkbox"/> Top <input type="checkbox"/> Middle <input type="checkbox"/> Bottom | | Coolant Location: <input type="checkbox"/> Dispersed <input type="checkbox"/> Top <input type="checkbox"/> Middle <input type="checkbox"/> Bottom | | Coolant Location: <input type="checkbox"/> Dispersed <input type="checkbox"/> Top <input type="checkbox"/> Middle <input type="checkbox"/> Bottom | | Coolant Location: <input type="checkbox"/> Dispersed <input type="checkbox"/> Top <input type="checkbox"/> Middle <input type="checkbox"/> Bottom | | |
| Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| If Present, Temperature Blank Location is: <input checked="" type="checkbox"/> Representative <input type="checkbox"/> Not Representative | | If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative | | If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative | | If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative | | |
| Observed °C | Correction Factor °C | Actual °C | Observed °C | Correction Factor °C | Actual °C | Observed °C | Correction Factor °C | Actual °C |
| Temp Blank | <u>0.8</u> | <u>-</u> | <u>0.8</u> | | | | | |
| Sample 1 | <u>2.6</u> | <u>-</u> | <u>2.6</u> | | | | | |
| Sample 2 | <u>2.4</u> | <u>-</u> | <u>2.4</u> | | | | | |
| Sample 3 | <u>4.4</u> | <u>-</u> | <u>4.4</u> | | | | | |
| 3 Sample Average °C: <u>3.1</u> | | | 3 Sample Average °C: | | | 3 Sample Average °C: | | |
| <input checked="" type="checkbox"/> Cooler ID on COC? | | <input type="checkbox"/> Cooler ID on COC? | | <input type="checkbox"/> Cooler ID on COC? | | <input type="checkbox"/> Cooler ID on COC? | | |
| <input checked="" type="checkbox"/> VOC Trip Blank received? | | <input type="checkbox"/> VOC Trip Blank received? | | <input type="checkbox"/> VOC Trip Blank received? | | <input type="checkbox"/> VOC Trip Blank received? | | |

If any shaded areas checked, complete Sample Receiving Non-Conformance and/or Inventory Form

Paperwork Received

Yes No Chain of Custody record(s)? If No, Initiated By: _____

Received for Lab Signed/Date/Time? _____

Shipping document?

Other _____

COC Information

TriMatrix COC Other: 149687

COC ID Numbers: _____

Check COC for Accuracy

Yes No Analysis Requested?

Sample ID matches COC?

Sample Date and Time matches COC?

Container type completed on COC?

All container types indicated are received?

Sample Condition Summary

| N/A | Yes | No | Description |
|-------------------------------------|--------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Broken containers/lids? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Missing or incomplete labels? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Illegible information on labels? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Low volume received? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Inappropriate or non-TriMatrix containers received? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | VOC vials / TOX containers have headspace? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Extra sample locations / containers not listed on COC? |

Check Sample Preservation

N/A Yes No Temperature Blank OR average sample temperature, ≥6° C?

If either is ≥6° C, was thermal preservation required?

If "Yes", Project Chemist Approval Initials: _____

If "Yes" Completed Non-Con Cooler - Cont Inventory Form?

Completed Sample Preservation Verification Form?

Samples chemically preserved correctly?

If "No", added orange tag?

Received pre-preserved VOC soils?

MeOH Na₂SO₄

Check for Short Hold-Time Prep/Analyses

Bacteriological

Air Bags

EnCores / Methanol Pre-Preserved

Formaldehyde/Aldehyde

Green-tagged containers

Yellow/White-tagged 1 L smbers (SV Prep-Lab)

AFTER HOURS ONLY:
 COPIES OF COC TO LAB AREA(S)
 NONE RECEIVED
 RECEIVED, COCs TO LAB(S)

Notes

Trip Blank received Trip Blank not listed on COC

| Cooler Received (Date/Time) | Paperwork Delivered (Date/Time) | ≤1 Hour Goal Met? |
|-----------------------------|---------------------------------|---|
| <u>11/4/14 0900</u> | <u>11/4/14 1656</u> | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |

| | |
|---------------------------------|--|
| Client <i>R. David Munch</i> | Work Order # <i>1411072</i> |
| Receipt Log # <i>36-21</i> | Completed By (initials/date) <i>[Signature] 11/4/14</i> |
| Project Chemist | |

| | | | | | | | | |
|---------------------------|----------|--------------------------------|-----------------------------------|-------|--|------------------|--|--|
| COC ID # <i>149687</i> | | | Adjusted by: _____ Date: _____ | | DO NOT ADJUST pH FOR THESE CONTAINER TYPES | | | |
| Container Type | 5 / 23 | 4 | 13 | 3 | 6 | 15 | | |
| Tag Color | Lt. Blue | Blue | Brown | Green | Red | Red Stripe | | |
| Preservative | NaOH | H ₂ SO ₄ | H ₂ SO ₄ | None | HNO ₃ | HNO ₃ | | |
| Expected pH | >12 | <2 | <2 | 6-8 | <2 | <2 | | |
| COC Line #1 | | | | | ✓ | | | |
| COC Line #2 | | | | | ✓ | | | |
| COC Line #3 | | | | | ✓ | | | |
| COC Line #4 | | | | | ✓ | | | |
| COC Line #5 | | | | | ✓ | | | |
| COC Line #6 | | | | | ✓ | | | |
| COC Line #7 | | | | | ✓ | | | |
| COC Line #8 | | | | | ✓ | | | |
| COC Line #9 | | | | | ✓ | | | |
| COC Line #10 | | | | | ✓ | | | |
| Comments | | | | | | | | |

| |
|---|
| pH Strip Reagent # |
| <input type="checkbox"/> 4051306 |
| <input checked="" type="checkbox"/> _____ |

Aqueous Samples: For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box, and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the sample to achieve the correct pH. Add up to, but do not exceed 2x the volume initially added at container prep (see table below for initial volumes used). Add orange pH tag to sample container and record information requested. Record adjusted pH on this form. Do not adjust pH for container types 3, 6, and 15.

| | | | | | | | | |
|----------------|----------|--------------------------------|-----------------------------------|-------|--|------------------|--|--|
| COC ID # | | | Adjusted by: _____ Date: _____ | | DO NOT ADJUST pH FOR THESE CONTAINER TYPES | | | |
| Container Type | 5 / 23 | 4 | 13 | 3 | 6 | 15 | | |
| Tag Color | Lt. Blue | Blue | Brown | Green | Red | Red Stripe | | |
| Preservative | NaOH | H ₂ SO ₄ | H ₂ SO ₄ | None | HNO ₃ | HNO ₃ | | |
| Expected pH | >12 | <2 | <2 | 6-8 | <2 | <2 | | |
| COC Line #1 | | | | | | | | |
| COC Line #2 | | | | | | | | |
| COC Line #3 | | | | | | | | |
| COC Line #4 | | | | | | | | |
| COC Line #5 | | | | | | | | |
| COC Line #6 | | | | | | | | |
| COC Line #7 | | | | | | | | |
| COC Line #8 | | | | | | | | |
| COC Line #9 | | | | | | | | |
| COC Line #10 | | | | | | | | |
| Comments | | | | | | | | |

| Container Size (mL) | Original Vol. of Preservative (mL) |
|---------------------|------------------------------------|
| Container Type 5 | NaOH |
| 500 | 2.5 |
| 1000 | 5.0 |
| Container Type 4 | H ₂ SO ₄ |
| 125 | 0.5 |
| 250 | 1.0 |
| 500 | 2.0 |
| 1000 | 4.0 |
| Container Type 13 | H ₂ SO ₄ |
| 500 | 2.5 |

November 24, 2014

R.David Mursch
Prairie Ronde Realty Co.
415 E. Prairie Ronde St.
New Baltimore, MI 48047

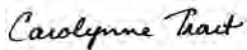
RE: Project: PRR
Pace Project No.: 10288941

Dear R.David Mursch:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

cc: Brian DeLong, Prairie Ronde Realty



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PRR
Pace Project No.: 10288941

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PRR
Pace Project No.: 10288941

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------------|--------|----------------|----------------|
| 10288941001 | NREC 1 (VMP-17) | Air | 11/14/14 08:04 | 11/17/14 10:00 |
| 10288941002 | NREC 1a (IA) | Air | 11/14/14 08:03 | 11/17/14 10:00 |
| 10288941003 | NREC 2 (VMP-18) | Air | 11/14/14 08:08 | 11/17/14 10:00 |
| 10288941004 | NREC 2a (IA) | Air | 11/14/14 08:07 | 11/17/14 10:00 |
| 10288941005 | LL-NE (IA) | Air | 11/14/14 08:14 | 11/17/14 10:00 |
| 10288941006 | LL-SW (IA) | Air | 11/14/14 08:11 | 11/17/14 10:00 |
| 10288941007 | SREC 1 (VMP-15) | Air | 11/14/14 08:20 | 11/17/14 10:00 |
| 10288941008 | SREC 1a (IA) | Air | 11/14/14 08:19 | 11/17/14 10:00 |
| 10288941009 | QT (VMP-16) | Air | 11/14/14 08:31 | 11/17/14 10:00 |
| 10288941010 | QT Office (IA) | Air | 11/14/14 08:30 | 11/17/14 10:00 |
| 10288941011 | MP (VMP-14) | Air | 11/13/14 09:27 | 11/17/14 10:00 |
| 10288941012 | MP 2 (IA) | Air | 11/13/14 09:26 | 11/17/14 10:00 |
| 10288941013 | VH (VMP-13) | Air | 11/13/14 10:18 | 11/17/14 10:00 |
| 10288941014 | VH 2 (IA) | Air | 11/13/14 10:03 | 11/17/14 10:00 |
| 10288941015 | JMT (VMP-12) | Air | 11/14/14 07:53 | 11/17/14 10:00 |
| 10288941016 | JMT 2 (IA) | Air | 11/14/14 07:52 | 11/17/14 10:00 |
| 10288941017 | PRR Office (VMP-11) | Air | 11/13/14 10:28 | 11/17/14 10:00 |
| 10288941018 | PRR Office (IA) | Air | 11/13/14 10:24 | 11/17/14 10:00 |
| 10288941019 | Unused Can#2653 | Air | | 11/17/14 10:00 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PRR
Pace Project No.: 10288941

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------------|--------|----------|-------------------|
| 10288941001 | NREC 1 (VMP-17) | TO-15 | MJL | 8 |
| 10288941002 | NREC 1a (IA) | TO-15 | MJL | 8 |
| 10288941003 | NREC 2 (VMP-18) | TO-15 | MJL | 8 |
| 10288941004 | NREC 2a (IA) | TO-15 | MJL | 8 |
| 10288941005 | LL-NE (IA) | TO-15 | MJL | 8 |
| 10288941006 | LL-SW (IA) | TO-15 | MJL | 8 |
| 10288941007 | SREC 1 (VMP-15) | TO-15 | MJL | 8 |
| 10288941008 | SREC 1a (IA) | TO-15 | MJL | 8 |
| 10288941009 | QT (VMP-16) | TO-15 | MJL | 8 |
| 10288941010 | QT Office (IA) | TO-15 | MJL | 8 |
| 10288941011 | MP (VMP-14) | TO-15 | MJL | 8 |
| 10288941012 | MP 2 (IA) | TO-15 | MJL | 8 |
| 10288941013 | VH (VMP-13) | TO-15 | AH2 | 8 |
| 10288941014 | VH 2 (IA) | TO-15 | AH2 | 8 |
| 10288941015 | JMT (VMP-12) | TO-15 | AH2 | 8 |
| 10288941016 | JMT 2 (IA) | TO-15 | AH2 | 8 |
| 10288941017 | PRR Office (VMP-11) | TO-15 | AH2 | 8 |
| 10288941018 | PRR Office (IA) | TO-15 | AH2 | 8 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: NREC 1 (VMP-17) | | Lab ID: 10288941001 | Collected: 11/14/14 08:04 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|--------------------------------|-------------|----------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.72 | 1.34 | | 11/20/14 21:19 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.1 | 1.34 | | 11/20/14 21:19 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 2.7 | 1.34 | | 11/20/14 21:19 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 2.7 | 1.34 | | 11/20/14 21:19 | 156-60-5 | |
| Tetrachloroethene | 18.2 | ug/m3 | 4.6 | 1.34 | | 11/20/14 21:19 | 127-18-4 | |
| 1,1,1-Trichloroethane | 1.6 | ug/m3 | 1.5 | 1.34 | | 11/20/14 21:19 | 71-55-6 | |
| Trichloroethene | 42.5 | ug/m3 | 0.74 | 1.34 | | 11/20/14 21:19 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.70 | 1.34 | | 11/20/14 21:19 | 75-01-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: NREC 1a (IA) | | Lab ID: 10288941002 | Collected: 11/14/14 08:03 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|--------------------------|------------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.80 | 1.49 | | 11/20/14 22:04 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 1.49 | | 11/20/14 22:04 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 3.0 | 1.49 | | 11/20/14 22:04 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 3.0 | 1.49 | | 11/20/14 22:04 | 156-60-5 | |
| Tetrachloroethene | ND | ug/m3 | 5.1 | 1.49 | | 11/20/14 22:04 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 1.49 | | 11/20/14 22:04 | 71-55-6 | |
| Trichloroethene | 1.0 | ug/m3 | 0.82 | 1.49 | | 11/20/14 22:04 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.77 | 1.49 | | 11/20/14 22:04 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: NREC 2 (VMP-18) | | Lab ID: 10288941003 | Collected: 11/14/14 08:08 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|--------------------------------|---------|----------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.72 | 1.34 | | 11/20/14 22:50 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.1 | 1.34 | | 11/20/14 22:50 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 2.7 | 1.34 | | 11/20/14 22:50 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 2.7 | 1.34 | | 11/20/14 22:50 | 156-60-5 | |
| Tetrachloroethene | ND | ug/m3 | 4.6 | 1.34 | | 11/20/14 22:50 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.5 | 1.34 | | 11/20/14 22:50 | 71-55-6 | |
| Trichloroethene | ND | ug/m3 | 0.74 | 1.34 | | 11/20/14 22:50 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.70 | 1.34 | | 11/20/14 22:50 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: NREC 2a (IA) | | Lab ID: 10288941004 | Collected: 11/14/14 08:07 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|--------------------------|------------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.84 | 1.55 | | 11/20/14 23:12 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.3 | 1.55 | | 11/20/14 23:12 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 3.1 | 1.55 | | 11/20/14 23:12 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 3.1 | 1.55 | | 11/20/14 23:12 | 156-60-5 | |
| Tetrachloroethene | ND | ug/m3 | 5.3 | 1.55 | | 11/20/14 23:12 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 1.55 | | 11/20/14 23:12 | 71-55-6 | |
| Trichloroethene | 1.0 | ug/m3 | 0.85 | 1.55 | | 11/20/14 23:12 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.81 | 1.55 | | 11/20/14 23:12 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: LL-NE (IA) | | Lab ID: 10288941005 | Collected: 11/14/14 08:14 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|--------------------------|---------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.80 | 1.49 | | 11/20/14 23:35 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 1.49 | | 11/20/14 23:35 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 3.0 | 1.49 | | 11/20/14 23:35 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 3.0 | 1.49 | | 11/20/14 23:35 | 156-60-5 | |
| Tetrachloroethene | ND | ug/m3 | 5.1 | 1.49 | | 11/20/14 23:35 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 1.49 | | 11/20/14 23:35 | 71-55-6 | |
| Trichloroethene | ND | ug/m3 | 0.82 | 1.49 | | 11/20/14 23:35 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.77 | 1.49 | | 11/20/14 23:35 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: LL-SW (IA) | | Lab ID: 10288941006 | Collected: 11/14/14 08:11 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|--------------------------|-------------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.75 | 1.39 | | 11/20/14 23:58 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.1 | 1.39 | | 11/20/14 23:58 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 2.8 | 1.39 | | 11/20/14 23:58 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 2.8 | 1.39 | | 11/20/14 23:58 | 156-60-5 | |
| Tetrachloroethene | ND | ug/m3 | 4.8 | 1.39 | | 11/20/14 23:58 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.5 | 1.39 | | 11/20/14 23:58 | 71-55-6 | |
| Trichloroethene | 0.90 | ug/m3 | 0.76 | 1.39 | | 11/20/14 23:58 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.72 | 1.39 | | 11/20/14 23:58 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: SREC 1 (VMP-15) | | Lab ID: 10288941007 | Collected: 11/14/14 08:20 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|--------------------------------|-------------|----------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.80 | 1.49 | | 11/21/14 00:20 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 1.49 | | 11/21/14 00:20 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 3.0 | 1.49 | | 11/21/14 00:20 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 3.0 | 1.49 | | 11/21/14 00:20 | 156-60-5 | |
| Tetrachloroethene | 29.9 | ug/m3 | 5.1 | 1.49 | | 11/21/14 00:20 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 1.49 | | 11/21/14 00:20 | 71-55-6 | |
| Trichloroethene | 105 | ug/m3 | 0.82 | 1.49 | | 11/21/14 00:20 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.77 | 1.49 | | 11/21/14 00:20 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: SREC 1a (IA) | | Lab ID: 10288941008 | Collected: 11/14/14 08:19 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|-----------------------------|---------|----------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.68 | 1.26 | | 11/21/14 00:43 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.0 | 1.26 | | 11/21/14 00:43 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 2.5 | 1.26 | | 11/21/14 00:43 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 2.5 | 1.26 | | 11/21/14 00:43 | 156-60-5 | |
| Tetrachloroethene | ND | ug/m3 | 4.3 | 1.26 | | 11/21/14 00:43 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.4 | 1.26 | | 11/21/14 00:43 | 71-55-6 | |
| Trichloroethene | ND | ug/m3 | 0.69 | 1.26 | | 11/21/14 00:43 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.66 | 1.26 | | 11/21/14 00:43 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: QT (VMP-16) | | Lab ID: 10288941009 | Collected: 11/14/14 08:31 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|----------------------------|-------------|----------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.72 | 1.34 | | 11/21/14 01:06 | 75-00-3 | |
| 1,1-Dichloroethane | 18.4 | ug/m3 | 1.1 | 1.34 | | 11/21/14 01:06 | 75-34-3 | |
| cis-1,2-Dichloroethene | 53.5 | ug/m3 | 2.7 | 1.34 | | 11/21/14 01:06 | 156-59-2 | |
| trans-1,2-Dichloroethene | 3.5 | ug/m3 | 2.7 | 1.34 | | 11/21/14 01:06 | 156-60-5 | |
| Tetrachloroethene | 74.1 | ug/m3 | 4.6 | 1.34 | | 11/21/14 01:06 | 127-18-4 | |
| 1,1,1-Trichloroethane | 280 | ug/m3 | 29.7 | 26.8 | | 11/21/14 11:10 | 71-55-6 | |
| Trichloroethene | 1850 | ug/m3 | 14.7 | 26.8 | | 11/21/14 11:10 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.70 | 1.34 | | 11/21/14 01:06 | 75-01-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: QT Office (IA) | | Lab ID: 10288941010 | Collected: 11/14/14 08:30 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|--------------------------|------------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.80 | 1.49 | | 11/21/14 01:28 | 75-00-3 | |
| 1,1-Dichloroethane | 2.2 | ug/m3 | 1.2 | 1.49 | | 11/21/14 01:28 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 3.0 | 1.49 | | 11/21/14 01:28 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 3.0 | 1.49 | | 11/21/14 01:28 | 156-60-5 | |
| Tetrachloroethene | ND | ug/m3 | 5.1 | 1.49 | | 11/21/14 01:28 | 127-18-4 | |
| 1,1,1-Trichloroethane | 2.0 | ug/m3 | 1.7 | 1.49 | | 11/21/14 01:28 | 71-55-6 | |
| Trichloroethene | ND | ug/m3 | 0.82 | 1.49 | | 11/21/14 10:49 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.77 | 1.49 | | 11/21/14 01:28 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: MP (VMP-14) | | Lab ID: 10288941011 | Collected: 11/13/14 09:27 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|----------------------------|-------------|----------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.78 | 1.44 | | 11/21/14 01:51 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 1.44 | | 11/21/14 01:51 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 2.9 | 1.44 | | 11/21/14 01:51 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 2.9 | 1.44 | | 11/21/14 01:51 | 156-60-5 | |
| Tetrachloroethene | 13.7 | ug/m3 | 5.0 | 1.44 | | 11/21/14 01:51 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.6 | 1.44 | | 11/21/14 01:51 | 71-55-6 | |
| Trichloroethene | 94.9 | ug/m3 | 0.79 | 1.44 | | 11/21/14 01:51 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.75 | 1.44 | | 11/21/14 01:51 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: MP 2 (IA) | | Lab ID: 10288941012 | Collected: 11/13/14 09:26 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|--------------------------|------------|----------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.80 | 1.49 | | 11/21/14 02:14 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 1.49 | | 11/21/14 02:14 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 3.0 | 1.49 | | 11/21/14 02:14 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 3.0 | 1.49 | | 11/21/14 02:14 | 156-60-5 | |
| Tetrachloroethene | ND | ug/m3 | 5.1 | 1.49 | | 11/21/14 02:14 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 1.49 | | 11/21/14 02:14 | 71-55-6 | |
| Trichloroethene | 2.3 | ug/m3 | 0.82 | 1.49 | | 11/21/14 02:14 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.77 | 1.49 | | 11/21/14 02:14 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: VH (VMP-13) | | Lab ID: 10288941013 | Collected: 11/13/14 10:18 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|----------------------------|-------------|----------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.78 | 1.44 | | 11/20/14 23:29 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 1.44 | | 11/20/14 23:29 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 1.44 | | 11/20/14 23:29 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 1.44 | | 11/20/14 23:29 | 156-60-5 | |
| Tetrachloroethene | 4.8 | ug/m3 | 2.0 | 1.44 | | 11/20/14 23:29 | 127-18-4 | |
| 1,1,1-Trichloroethane | 76.3 | ug/m3 | 1.6 | 1.44 | | 11/20/14 23:29 | 71-55-6 | |
| Trichloroethene | 897 | ug/m3 | 31.4 | 28.8 | | 11/21/14 11:25 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.37 | 1.44 | | 11/20/14 23:29 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: VH 2 (IA) | | Lab ID: 10288941014 | Collected: 11/13/14 10:03 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|--------------------------|------------|----------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.78 | 1.44 | | 11/20/14 23:55 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 1.44 | | 11/20/14 23:55 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 1.44 | | 11/20/14 23:55 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 1.44 | | 11/20/14 23:55 | 156-60-5 | |
| Tetrachloroethene | ND | ug/m3 | 2.0 | 1.44 | | 11/20/14 23:55 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.6 | 1.44 | | 11/20/14 23:55 | 71-55-6 | |
| Trichloroethene | 5.2 | ug/m3 | 1.6 | 1.44 | | 11/20/14 23:55 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.37 | 1.44 | | 11/20/14 23:55 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: JMT (VMP-12) | | Lab ID: 10288941015 | Collected: 11/14/14 07:53 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|-----------------------------|---------|----------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.72 | 1.34 | | 11/21/14 00:18 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.1 | 1.34 | | 11/21/14 00:18 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.1 | 1.34 | | 11/21/14 00:18 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.1 | 1.34 | | 11/21/14 00:18 | 156-60-5 | |
| Tetrachloroethene | ND | ug/m3 | 1.8 | 1.34 | | 11/21/14 00:18 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.5 | 1.34 | | 11/21/14 00:18 | 71-55-6 | |
| Trichloroethene | ND | ug/m3 | 1.5 | 1.34 | | 11/21/14 00:18 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.35 | 1.34 | | 11/21/14 00:18 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: JMT 2 (IA) | | Lab ID: 10288941016 | Collected: 11/14/14 07:52 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|--------------------------|---------|--------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | |
| Chloroethane | ND | ug/m3 | 0.80 | 1.49 | | 11/21/14 00:42 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 1.49 | | 11/21/14 00:42 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 1.49 | | 11/21/14 00:42 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 1.49 | | 11/21/14 00:42 | 156-60-5 | |
| Tetrachloroethene | ND | ug/m3 | 2.1 | 1.49 | | 11/21/14 00:42 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 1.49 | | 11/21/14 00:42 | 71-55-6 | |
| Trichloroethene | ND | ug/m3 | 1.6 | 1.49 | | 11/21/14 00:42 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.39 | 1.49 | | 11/21/14 00:42 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: PRR Office (VMP-11) | | Lab ID: 10288941017 | Collected: 11/13/14 10:28 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|------------------------------------|--------------------------|----------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | Analytical Method: TO-15 | | | | | | | |
| Chloroethane | ND | ug/m3 | 0.75 | 1.39 | | 11/21/14 01:06 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.1 | 1.39 | | 11/21/14 01:06 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.1 | 1.39 | | 11/21/14 01:06 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.1 | 1.39 | | 11/21/14 01:06 | 156-60-5 | |
| Tetrachloroethene | 3.3 | ug/m3 | 1.9 | 1.39 | | 11/21/14 01:06 | 127-18-4 | |
| 1,1,1-Trichloroethane | 4.2 | ug/m3 | 1.5 | 1.39 | | 11/21/14 01:06 | 71-55-6 | |
| Trichloroethene | 115 | ug/m3 | 1.5 | 1.39 | | 11/21/14 01:06 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.36 | 1.39 | | 11/21/14 01:06 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10288941

| Sample: PRR Office (IA) | | Lab ID: 10288941018 | Collected: 11/13/14 10:24 | Received: 11/17/14 10:00 | Matrix: Air | | | |
|--------------------------------|--------------------------|----------------------------|---------------------------|--------------------------|-------------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | Analytical Method: TO-15 | | | | | | | |
| Chloroethane | ND | ug/m3 | 0.78 | 1.44 | | 11/21/14 01:30 | 75-00-3 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 1.44 | | 11/21/14 01:30 | 75-34-3 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 1.44 | | 11/21/14 01:30 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 1.44 | | 11/21/14 01:30 | 156-60-5 | |
| Tetrachloroethene | ND | ug/m3 | 2.0 | 1.44 | | 11/21/14 01:30 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.6 | 1.44 | | 11/21/14 01:30 | 71-55-6 | |
| Trichloroethene | ND | ug/m3 | 1.6 | 1.44 | | 11/21/14 01:30 | 79-01-6 | |
| Vinyl chloride | ND | ug/m3 | 0.37 | 1.44 | | 11/21/14 01:30 | 75-01-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRR
Pace Project No.: 10288941

QC Batch: AIR/21878 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10288941001, 10288941002, 10288941003, 10288941004, 10288941005, 10288941006, 10288941007, 10288941008, 10288941009, 10288941010, 10288941011, 10288941012

METHOD BLANK: 1849592 Matrix: Air
Associated Lab Samples: 10288941001, 10288941002, 10288941003, 10288941004, 10288941005, 10288941006, 10288941007, 10288941008, 10288941009, 10288941010, 10288941011, 10288941012

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | ND | 1.1 | 11/20/14 20:56 | |
| 1,1-Dichloroethane | ug/m3 | ND | 0.82 | 11/20/14 20:56 | |
| Chloroethane | ug/m3 | ND | 0.54 | 11/20/14 20:56 | |
| cis-1,2-Dichloroethene | ug/m3 | ND | 2.0 | 11/20/14 20:56 | |
| Tetrachloroethene | ug/m3 | ND | 3.4 | 11/20/14 20:56 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | 2.0 | 11/20/14 20:56 | |
| Trichloroethene | ug/m3 | ND | 0.55 | 11/20/14 20:56 | |
| Vinyl chloride | ug/m3 | ND | 0.52 | 11/20/14 20:56 | |

LABORATORY CONTROL SAMPLE: 1849593

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | 55.5 | 66.6 | 120 | 72-128 | |
| 1,1-Dichloroethane | ug/m3 | 41.2 | 44.7 | 109 | 68-128 | |
| Chloroethane | ug/m3 | 26.8 | 27.8 | 103 | 69-128 | |
| cis-1,2-Dichloroethene | ug/m3 | 40.3 | 43.4 | 108 | 71-135 | |
| Tetrachloroethene | ug/m3 | 69 | 75.9 | 110 | 69-136 | |
| trans-1,2-Dichloroethene | ug/m3 | 40.3 | 42.5 | 105 | 70-131 | |
| Trichloroethene | ug/m3 | 54.6 | 63.9 | 117 | 70-135 | |
| Vinyl chloride | ug/m3 | 26 | 27.2 | 105 | 69-132 | |

SAMPLE DUPLICATE: 1850075

| Parameter | Units | 10288941001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,1,1-Trichloroethane | ug/m3 | 1.6 | 1.7 | 3 | 25 | |
| 1,1-Dichloroethane | ug/m3 | ND | .82J | | 25 | |
| Chloroethane | ug/m3 | ND | ND | | 25 | |
| cis-1,2-Dichloroethene | ug/m3 | ND | 1.9J | | 25 | |
| Tetrachloroethene | ug/m3 | 18.2 | 17.5 | 3 | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| Trichloroethene | ug/m3 | 42.5 | 40.0 | 6 | 25 | |
| Vinyl chloride | ug/m3 | ND | ND | | 25 | |

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QUALITY CONTROL DATA

Project: PRR
Pace Project No.: 10288941

SAMPLE DUPLICATE: 1850080

| Parameter | Units | 10288941002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1-Dichloroethane | ug/m3 | ND | ND | | 25 | |
| Chloroethane | ug/m3 | ND | ND | | 25 | |
| cis-1,2-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| Tetrachloroethene | ug/m3 | ND | 4.4J | | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| Trichloroethene | ug/m3 | 1.0 | 0.95 | 8 | 25 | |
| Vinyl chloride | ug/m3 | ND | ND | | 25 | |

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QUALITY CONTROL DATA

Project: PRR
Pace Project No.: 10288941

QC Batch: AIR/21882 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10288941013, 10288941014, 10288941015, 10288941016, 10288941017, 10288941018

METHOD BLANK: 1849657 Matrix: Air
Associated Lab Samples: 10288941013, 10288941014, 10288941015, 10288941016, 10288941017, 10288941018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | ND | 1.1 | 11/20/14 23:05 | |
| 1,1-Dichloroethane | ug/m3 | ND | 0.82 | 11/20/14 23:05 | |
| Chloroethane | ug/m3 | ND | 0.54 | 11/20/14 23:05 | |
| cis-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 11/20/14 23:05 | |
| Tetrachloroethene | ug/m3 | ND | 1.4 | 11/20/14 23:05 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 11/20/14 23:05 | |
| Trichloroethene | ug/m3 | ND | 1.1 | 11/20/14 23:05 | |
| Vinyl chloride | ug/m3 | ND | 0.26 | 11/20/14 23:05 | |

LABORATORY CONTROL SAMPLE: 1849658

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | 55.5 | 55.5 | 100 | 72-128 | |
| 1,1-Dichloroethane | ug/m3 | 41.2 | 42.3 | 103 | 68-128 | |
| Chloroethane | ug/m3 | 26.8 | 29.3 | 109 | 69-128 | |
| cis-1,2-Dichloroethene | ug/m3 | 40.3 | 41.8 | 104 | 71-135 | |
| Tetrachloroethene | ug/m3 | 69 | 74.7 | 108 | 69-136 | |
| trans-1,2-Dichloroethene | ug/m3 | 40.3 | 42.2 | 105 | 70-131 | |
| Trichloroethene | ug/m3 | 54.6 | 53.9 | 99 | 70-135 | |
| Vinyl chloride | ug/m3 | 26 | 28.0 | 108 | 69-132 | |

SAMPLE DUPLICATE: 1850132

| Parameter | Units | 10288941018 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,1,1-Trichloroethane | ug/m3 | ND | ND | | | 25 |
| 1,1-Dichloroethane | ug/m3 | ND | ND | | | 25 |
| Chloroethane | ug/m3 | ND | ND | | | 25 |
| cis-1,2-Dichloroethene | ug/m3 | ND | ND | | | 25 |
| Tetrachloroethene | ug/m3 | ND | ND | | | 25 |
| trans-1,2-Dichloroethene | ug/m3 | ND | ND | | | 25 |
| Trichloroethene | ug/m3 | ND | ND | | | 25 |
| Vinyl chloride | ug/m3 | ND | ND | | | 25 |

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QUALIFIERS

Project: PRR
Pace Project No.: 10288941

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PRR
Pace Project No.: 10288941

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------------|-----------------|-----------|-------------------|------------------|
| 10288941001 | NREC 1 (VMP-17) | TO-15 | AIR/21878 | | |
| 10288941002 | NREC 1a (IA) | TO-15 | AIR/21878 | | |
| 10288941003 | NREC 2 (VMP-18) | TO-15 | AIR/21878 | | |
| 10288941004 | NREC 2a (IA) | TO-15 | AIR/21878 | | |
| 10288941005 | LL-NE (IA) | TO-15 | AIR/21878 | | |
| 10288941006 | LL-SW (IA) | TO-15 | AIR/21878 | | |
| 10288941007 | SREC 1 (VMP-15) | TO-15 | AIR/21878 | | |
| 10288941008 | SREC 1a (IA) | TO-15 | AIR/21878 | | |
| 10288941009 | QT (VMP-16) | TO-15 | AIR/21878 | | |
| 10288941010 | QT Office (IA) | TO-15 | AIR/21878 | | |
| 10288941011 | MP (VMP-14) | TO-15 | AIR/21878 | | |
| 10288941012 | MP 2 (IA) | TO-15 | AIR/21878 | | |
| 10288941013 | VH (VMP-13) | TO-15 | AIR/21882 | | |
| 10288941014 | VH 2 (IA) | TO-15 | AIR/21882 | | |
| 10288941015 | JMT (VMP-12) | TO-15 | AIR/21882 | | |
| 10288941016 | JMT 2 (IA) | TO-15 | AIR/21882 | | |
| 10288941017 | PRR Office (VMP-11) | TO-15 | AIR/21882 | | |
| 10288941018 | PRR Office (IA) | TO-15 | AIR/21882 | | |

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10364 Page: 1 of 2

| | | | | | |
|--|--|---|--|--|--|
| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
| Company: <u>Prairie Ronde Realty Co</u> | | Report To: <u>R. DAVID MURSCH</u> | | Attention: <u>Brian DeLong</u> | |
| Address: <u>415 E Prairie Ronde St</u> | | Copy To: <u>Brian DeLong</u> | | Company Name: <u>Prairie Ronde Realty Co</u> | |
| Email To: <u>Donogiac M. 49047</u> | | Purchase Order No.: <u>NA</u> | | Address: <u>415 E Prairie Ronde St., Denver, CO. 80217</u> | |
| Phone: <u>303-782-2141</u> | | Project Name: <u>PRR</u> | | Pace Quote Reference: | |
| Fax: <u></u> | | Project Number: <u>NA</u> | | Pace Project Manager/Sales Rep. <u>Carolynne Trout</u> | |
| Requested Due Date/TAT: | | | | Pace Profile #: | |

| ITEM # | Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE | Valid Media Codes MEDIA Tear Bag 1 Liter Summa Can 6 Liter Summa Can Low Volume Puff High Volume Puff Other | COLLECTED | | Canister Pressure (psig) | Summa Can Number | Flow Control Number | Method: | Pace Lab ID |
|--------|--|--|-----------|-------|--------------------------|------------------|---------------------|--------------------|-------------|
| | | | DATE | TIME | | | | | |
| 1 | NREC 1 (VMP-17) | | 11-13-14 | 8:50 | -30 | 1187 | 0109 | PM10 | 001 |
| 2 | NREC 1a (IA) | | 11-13-14 | 8:49 | -28 | 488 | 0352 | TO-15 Short List | 002 |
| 3 | NREC 2 (VMP-18) | | 11-13-14 | 9:37 | -30 | 2705 | 0542 | TO-15 | 003 |
| 4 | NREC 2a (IA) | | 11-13-14 | 9:35 | -27 | 2717 | 0090 | TO-14 | 004 |
| 5 | LL-NE (IA) | | 11-13-14 | 9:42 | -29 | 1217 | 0863 | TO-13 (PAH) | 005 |
| 6 | LL-SW (IA) | | 11-13-14 | 9:39 | -27 | 2123 | 0069 | TO-13 (PAH) | 006 |
| 7 | SREC 1 (VMP-15) | | 11-13-14 | 9:48 | -30 | 1590 | 0242 | TO-4 (PGBs) | 007 |
| 8 | SREC 1a (IA) | | 11-13-14 | 9:44 | -28 | 2373 | 0267 | TO-4 (PGBs) | 008 |
| 9 | QT (VMP-16) | | 11-13-14 | 9:55 | -26 | 2112 | 0339 | TO-3 (Fixed Gas %) | 009 |
| 10 | QT office (IA) | | 11-13-14 | 9:52 | -26 | 961 | 0008 | TO-3 (Fixed Gas %) | 010 |
| 11 | MP (VMP-14) | | 11-12-14 | 10:12 | -30 | 2177 | 0885 | TO-3 (Fixed Gas %) | 011 |
| 12 | VMP 2 (IA) | | 11-12-14 | 10:10 | -28 | 1043 | 1050 | TO-3 (Fixed Gas %) | 012 |

| REINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|------------------------------|----------|------|---------------------------|----------|------|--|
| Brian DeLong / PRR | 11-14-14 | | Brian DeLong | 11-14-14 | 1000 | Temp In C Received on Ice Sealed Cooler Custody |
| | | | | | | Y/N |
| | | | | | | Y/N |
| | | | | | | Y/N |
| | | | | | | Y/N |
| | | | | | | Y/N |
| | | | | | | Y/N |

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Brian DeLong
 SIGNATURE: [Signature] DATE Signed (MM/DD/YY): 11-14-14

ORIGINAL

10288941



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: **10165** Page: 2 of 2

Section B Required Project Information:

Company: Praine Rende Realty Co. Report To: R. Davis Mutsch
 Address: 415 E Prairie Lande St. Copy To: Brian Delong
Dwagaie, MN 55047
 Email To: clavdmutsch@earthlink.net
 Phone: 269-782-2441 Fax: _____
 Requested Due Date/TAT: _____

Purchase Order No.: NA
 Project Name: PRR
 Project Number: NA

Attention: Brian Delong
 Company Name: Praine Rende Realty Co.
 Address: 415 E Prairie Lande St., Dwagaie, MN 55047
 Pace Quote Reference: _____
 Pace Project Manager/Sales Rep: Carolyne Trout
 Pace Profile #: _____

| ITEM # | Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE | Valid Media Codes MEDIA TB Tedlar Bag 1 Liter Summa Can 6LC 6 Liter Summa Can LVP Low Volume Puff HVP High Volume Puff PM10 Other | COLLECTED | | Summa Can Number | Flow Control Number | Method: |
|--------|--|--|-----------|-------|------------------|---------------------|--------------------|
| | | | DATE | TIME | | | |
| 1 | VH (VMP-13) | | 11-12-14 | 10:46 | 2664 | 0543 | PM10 |
| 2 | VH 2 (JA) | | 11-12-14 | 10:42 | 966 | 1070 | TO-15 |
| 3 | SMT (VMP-12) | | 11-13-14 | 8:37 | 0393 | 1075 | TO-14 (PAN) |
| 4 | SMT 2 (JA) | | 11-13-14 | 8:35 | 1089 | 1083 | TO-13 (PAN) |
| 5 | PRR OFFICE (VMP-11) | | 11-12-14 | 11:03 | 0701 | 0127 | TO-4 (PCBS) |
| 6 | PRR OFFICE (JA) | | 11-12-14 | 11:05 | 0466 | 0314 | TO-3M (Methane) |
| 7 | | | | | | | TO-3 (Fixed Gas %) |
| 8 | | | | | | | TO-15 Short List |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |

Section C Invoice Information:

Relinquished By / Affiliation: Brian Delong / PRR Date: 11-14-14
 Accepted By / Affiliation: Brian Delong / PRR Date: 11-14-14
 Date: 11-14-14 Time: 1000
 Temp in °C: _____
 Received on Ice: Y/N
 Custody Sealed Cooler: Y/N
 Samples Intact: Y/N

Comments: _____

Print Name of Sampler: Brian Delong
 Signature Sampler: [Signature]
 Date Signed (MM/DD/YY): 11-14-14

ORIGINAL

Air Sample Condition Upon Receipt

Client Name: P. R. R. Co

Project #: **JO# : 10288941**



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Tracking Number: on other sheet

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags Foam None Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447
 Date & Initials of Person Examining Contents: 2/11/14

Temp should be above freezing to 6°C Correction Factor: _____
 Type of ice Received Blue Wet None

Comments:

| | | |
|---------------------------------------|--|-----|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name and/or Signature on COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72 hr)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Media: <u>air can</u> | | 11. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |

| Canisters | | Flow Controllers | | Stand Alone G | |
|-----------------|--------|------------------|------------------|---------------|--------|
| Sample Number | Can ID | Sample Number | Can ID | Sample Number | Can ID |
| NREC 1 vmp17 | 1187 | 0109 | mp | 2177 | 0885 |
| NREC 1A IA | 0488 | 0352 | mp 2 | 1043 | 1050 |
| NREC 2 vmp18 | 2705 | 0542 | VH | 2664 | 0543 |
| NREC 2A IA | 2717 | 0040 | VH2 | 0966 | 1670 |
| LL-Ne IA | 1217 | 0863 | JMT | 0393 | 1075 |
| LL-SW IA | 2123 | 0069 | JMT2 | 1089 | 1083 |
| SPEC 1 (vmp-15) | 1590 | 0242 | RRR office vmp11 | 0701 | 0127 |
| SPEC 1A IA | 2373 | 0267 | RRR office IA | 0466 | 0314 |
| RT | 2112 | 0339 | unused | 2653 | 1058 |
| RT office | 0961 | 0608 | | | |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No


Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [Signature] Date: 11/17/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

US EPA ARCHIVE DOCUMENT

| | | |
|--|---|---|
|  | Document Name: SCUR Exceptions Form | Document Revised: 16Apr2012 Page 1 of 1 |
| | Document No.: F-MN-L-220-Rev.00 | Issuing Authority: Pace Minnesota Quality Office |

Workorder #: _____

| Issue | Sample ID | Container Type/# |
|----------------|-----------|------------------|
| 6146 1785 5231 | | |
| 6146 1785 5220 | | |
| 6146 1785 5210 | | |
| 6146 1785 5209 | | |
| 6146 1785 5194 | | |
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INVOICE

| |
|--|
| Number : 1404148 Amount : \$5,888.00 Date : December 4, 2014 Terms : Net 30 |
|--|

Accounts Payable
Prairie Ronde Realty Company
 415 E. Prairie Ronde Street
 Dowagiac, MI 49047-0530

Work Order(s)

| |
|---------------------------|
| 1411067, 1411073, 1411099 |
|---------------------------|

Project : NCP Dowagiac, MI
 Purchase Order : 96-01 PRR

Mr. R. David Mursch

Laboratory services for all samples received 11/4/2014 - 11/5/2014 for the work order(s) listed above.

| Analysis/Description | Matrix | Unit Cost | Quantity | Extended |
|-------------------------------------|--------|-----------|----------|------------|
| TriMatrix Laboratories, Inc. | | | | |
| Volatiles GCMS 8260B | Water | \$92.00 | 64 | \$5,888.00 |

Invoice Total: \$5,888.00

Payment Procedure

- * Make check payable to **TriMatrix Laboratories, Inc.**, and reference the **Invoice Number** on your check.
- * Send payment to:

Accounts Receivable
TriMatrix Laboratories, Inc.
 5560 Corporate Exchange Court SE
 Grand Rapids, MI 49512-5503 ♦ 616.975.4500



5560 Corporate Exchange Court SE
Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No.

149686

For Lab Use Only
Cart

Analyses Requested

Pg. 1 of 2

VOA Pack/Tray

18 133 Bue

Client Name

P. DAVID MURSCA

Project Name

PRR-651

Receipt Log No.

35-20

Address

104 RIVERCLIFF DR
CANNONVILLE SPRINGS NC

Client Project No. / P.O. No.

PRR

Project Analyst

DAVID MURSCA

City, State, Zip

2617

Invoice To

PRR

Client

Other (comments)

Container Type (corresponds to Container Packing List)

Number of Containers Submitted

Sample Comments

- RESERVATIVES
- A NONE pH-7
- B HNO₃ pH-2
- C H₂SO₄ pH-2
- D 1:1 HCl pH-2
- E NaOH pH-12
- F ZnAc/NaOH pH-9
- G MeOH
- H Other (note below)

| Schedule | Matrix Code | Sample Number | Field Sample ID | Cooler ID | Sample Date | Sample Time | Matrix | Number of Containers Submitted | Total | Sample Comments |
|----------|-------------|---------------|-----------------|-----------|-------------|-------------|--------|--------------------------------|-------|-----------------|
| 06 | | 01 | 98-215C | 0738 | 10-31-11 | 1515 | WZ | | | |
| | | 02 | 06-18/3 | | | 1415 | WZ | | | |
| | | 03 | 06-18/4 | | | 1700 | WZ | | | |
| | | 04 | 06-18/7 | | | 1730 | WZ | | | |
| | | 05 | 98-201C | | 11-1-14 | 0940 | WZ | | | |
| | | 06 | 83-23A | | | 1310 | WZ | | | |
| | | 07 | 83-23B | | | 1245 | WZ | | | |
| | | 08 | 06-20/1 | | | 1400 | WZ | | | |
| | | 09 | 06-20/2 | | | 1325 | WZ | | | |
| | | 10 | 06-20/3 | | | 1335 | WZ | | | |

Sampled By (print)
P. DAVID MURSCA

Signature

Tracking No.

Hand

Carrier

ED BR

Comments

SAMPLE TAGS THAT READ 1-1-14 FOR THE DATE SHOULD ACTUALLY READ 11-1-14. MWA

Company

1. Requisitioned By

Date

Time

2. Requisitioned By

Date

Time

3. Requisitioned By

Date

Time

Received for Lab Use By

Date

Time

Signature

IN MEMORIAM ARCHIVE DOCUMENT



5560 Corporate Exchange Court SE
Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7483
www.trimatrixlabs.com

Chain of Custody Record

COC No. **1496689**

Analyses Requested

Pg. 2 of 2

Client Name: **REDAVIA MURPHY**
Address: **104 TRIVERCRAFT DR**
City, State, Zip: **CONROY SPRINGS, MI 48128**
Phone/Fax: **98-224B**
Email: **redaviamurphy@earthlink.net**

Project Name: **6S1/MVA**
Client Project No./P.O. No.: **PRR**
Invoice To: **PRR**
Contact/Report To: **PRR**
Other (comments): **RM**

| Container Type (corresponds to Container Packing List) | Number of Containers Submitted |
|--|--------------------------------|
| D 9225 | 1 |

- PRESERVATIVES
- A NONE pH=7
 - B HNO₃ pH<2
 - C H₂SO₄ pH<2
 - D 1+1 HCl pH<2
 - E NaOH pH>12
 - F ZnAc₂/NaOH pH>9
 - G MeOH
 - H Other (note below)

| Schedule | Matrix Code | Sample Number | Field Sample ID | Cooler ID | Sample Date | Sample Time | Matrix | Number of Containers Submitted | Sample Comments |
|----------|-------------|---------------|-----------------|-----------|-------------|-------------|--------|--------------------------------|-----------------|
| 06 | | 11 | 06-20/4 | 7M | 11-14 | 1350 | WWZ | 1 | |
| | | 12 | 06-20/6 | | | 1355 | WWZ | 1 | |
| | | 13 | 83-17A | | | 1425 | WWZ | 1 | |
| | | 14 | 83-17B | | | 1445 | WWZ | 1 | |
| | | 15 | DUP#1 | | | 1445 | WWZ | 1 | |
| | | 16 | 83-24A | | | 1510 | WWZ | 1 | |
| | | 17 | 83-24B | | | 1530 | WWZ | 1 | |
| | | 18 | 13-224A | | | 1630 | WWZ | 1 | |
| | | 19 | 98-224B | | | 1615 | WWZ | 1 | |
| | | 20 | FRUIT BLANK | | | | WWZ | 1 | |

Sampled By (print): **REDAVIA MURPHY**
Sampler's Signature: *[Signature]*
Company: **REDAVIA MURPHY**

How Shipped? **FRUIT BLANK**
Tracking No. _____

Head: **Fred Ely**
Center: _____

Comments: **SAMPLE TAGS WITH DATE OF 1-1-14 SHOULD ACTUALLY BE DATED 11-1-14**

| 1. Received By | Date | Time | 2. Requisitioned By | Date | Time | 3. Requisitioned For (Lab Use) | Date | Time |
|----------------|------|------|---------------------|------|------|--------------------------------|------|------|
| | | | | | | | | |

IN MEMORIAM ARCHIVE DOCUMENT



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Grand Rapids, MI 49512

Phone (616) 975-4500 Fax (616) 942-7463

www.trimatrixlabs.com

Chain of Custody Record

COC No.

149693

Analyses Requested

Pg.

1 of 2

PRESERVATIVES

- A NONE pH-7
- B HNO₃ pH-2
- C H₂SO₄ pH-2
- D 1+1 HCl pH-2
- E NaOH pH-12
- F ZnAcNaOH pH-9
- G MeOH
- H Other (note below)

Container Type (corresponds to Container Packing List)

| | |
|---|------|
| D | 2729 |
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Number of Containers Submitted

Size

Sample Comments

Client Name: R. DAVID MURPHY
 Address: 104 RIVERCLIFF DR
 City, State Zip: GRANDVELLY SPRINGS MI 49612
 Phone/Fax: [blank]
 Email: [blank]

Project Name: CSI MNA
 Client Project No. / P.O. No: 96-01 PRR
 Invoice To: PRR
 Client
 Other (comments)
 Contact/Report To: RDM

VOA Reack/TRY: 150157 Blue
 Receipt Log No.: 36-22
 Project Client: [blank]
 Order No.: 411073

| Schedule | Matrix Code | Sample Number | Field Sample ID | Cooler ID | Sample Date | Sample Time | Matrix | Number of Containers Submitted | Size | Sample Comments |
|----------|-------------|---------------|-----------------|-----------|-------------|-------------|--------|--------------------------------|------|-----------------|
| | | 01 | 06-17 / 1 | 3372 TM | 0815 | | LV 2 | | | |
| | | 02 | 06-17 / 2 | | 0830 | | LV 2 | | | |
| | | 03 | 06-17 / 3 | | 0845 | | LV 2 | | | |
| | | 04 | 06-17 / 4 | | 0855 | | LV 2 | | | |
| | | 05 | 06-17 / 1 | | 0910 | | LV 2 | | | |
| | | 06 | TRIP BLANK | | | | LV 1 | | | |
| | | 07 | 05-15 | | 0930 | | LV 2 | | | |
| | | 08 | Ew-14 | | 0950 | | LV 2 | | | |
| | | 09 | DL-01 | | 1035 | | LV 2 | | | |
| | | 10 | DL-02 | | 1100 | | LV 2 | | | |

Comments

Sampled By (print): R. DAVID MURPHY
 Sampler's Signature: [Signature]
 Company: [Signature]

How Shipped? Tracking No.
 Hand: [blank] Carrier: FedEx
 1. Refrigerated By: [blank] Date: [blank] Time: [blank]

2. Refrigerated By: [blank] Date: [blank] Time: [blank]
 3. Refrigerated By: [Signature] Date: 11/4/14 Time: 09:20



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Grand Rapids, MI 49512
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Chain of Custody Record

COC No.

149691

For Lab Use Only

Analyses Requested

Pg. 2 of 2

VOA Rack/Tray: 150 157 Blue R. DAVID MURPHY
 Receipt Log No: 36-22
 Project/Client: 104 RIVERLIFE DR
 Address: LEWISLEY SPRINGS MI 49612
 City/State/Zip: LEWISLEY SPRINGS MI 49612
 Phone/Fax: 916-02
 Work Order No.: 1411073
 Client Name: DAVID MURPHY
 Project Name: PRY/ 651 FLOW
 Client Project No./P.O. No.: 916-02
 Invoice To: Client Other (comments)
 Contact/Report To: PRK

| Container ID | Container Type (corresponds to Container Parking List) |
|--------------|--|
| 0928 | |
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| Schedule | Matrix Code | Sample Number | Field Sample ID | Collector ID | Sample Date | Sample Time | C | D | M | H | R | A | S | B | Matrix | Number of Containers Submitted | Total | Sample Comments |
|----------|-------------|---------------|-----------------|--------------|-------------|-------------|---|---|---|---|---|---|---|---|--------|--------------------------------|-------|-----------------|
| | | 11 | DUP # 2 | 4M | 3/12/14 | 1100 | | | | | | | | | W 2 | | | |
| | | 12 | 00-216 A | | | 1115 | | | | | | | | | W 2 | | | |
| | | 13 | 06-19 1 | | | 1350 | | | | | | | | | W 2 | | | |
| | | 14 | 06-19 1/2 | | | 1405 | | | | | | | | | W 2 | | | |
| | | 15 | 06-19 1/3 | | | 1415 | | | | | | | | | W 2 | | | |
| | | 16 | 06-19 1/7 | | | 1435 | | | | | | | | | W 2 | | | |
| | | 17 | 08-217 C | | | 1500 | | | | | | | | | W 2 | | | |
| | | 18 | 08-218 B | | | 1525 | | | | | | | | | W 2 | | | |
| | | 19 | 06-202 R | | | 1540 | | | | | | | | | W 2 | | | |

Sampled By (print): Richard Murphy
 Sampler's Signature: *Richard Murphy*
 Company: Richard Murphy
 How Shipped? Hand Carrier Fed Ex
 Tracking No.: 1541073
 1. Relinquished By: Richard Murphy Date: 3/12/14 Time: 09:00
 2. Requisitioned By: Richard Murphy Date: 3/12/14 Time: 09:00
 3. Requisitioned By: Richard Murphy Date: 3/12/14 Time: 09:00
 4. Received by Lab By: Richard Murphy Date: 3/12/14 Time: 09:00

WHITE COPY REPORT YELLOW COPY LABORATORY PINK COPY FIELD
IN MEMORIAM ARCHIVE DOCUMENT



5560 Corporate Exchange Court SE
Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No.

149692

Analyses Requested

Pg. 1 of 3

For Lab Use Only
Car: _____

VOA Reack/Tray
395G, 5108G, 1054R, 1054R, DAVIS MURSET

Receipt Log No. 3720

Client Name: DAVIS MURSET
Address: 104 RIVERLITE DR
City, State Zip: LEANSLEY SPRINGS MI 48612
Phone/Fax: _____
Email: _____

Project Name: GS1/MNA
Client Project No./P.O. No.: PRR-96-01
Invoice To: PRR
Other (comments):
Contact/Report To: RDM

Project of Interest:
Matrix Change No: 1411899

| Container Type (corresponds to Container Packing List) | Number of Containers Submitted | Total | Sample Comments |
|--|--------------------------------|-------|-----------------|
| D | 1 | | |
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| Schedule | Main Code | Sample Number | Field Sample ID | Cooler ID | Sample Date | Sample Time | Matrix | Number of Containers Submitted | Total | Sample Comments |
|----------|-----------|---------------|-----------------|-----------|-------------|-------------|--------|--------------------------------|-------|-----------------|
| 06 | - | 01 | IW-11 | | 11-3-11 | 0740 | WZ | 1 | | |
| | - | 02 | 05-14 | | | 0800 | WZ | | | |
| | - | 03 | 02-03 | | | 0825 | WZ | | | |
| | - | 04 | 02-04 | | | 0840 | WZ | | | |
| | - | 05 | 83-19A | | | 0920 | WZ | | | |
| | - | 06 | 83-19B | | | 0910 | WZ | | | |
| | - | 07 | Trip Back | | | - | W1 | | | |
| | - | 08 | 05-16 | | | 0940 | WZ | | | |
| | - | 09 | 06-21/1 | | | 1050 | WZ | | | |
| | - | 10 | 06-21/2 | | | 1105 | WZ | | | |

Sampled By (print): P. Davis Murset

How Shipped? Tracking No. _____

Handed _____ Carrier: Fed Ex

1. Reinstated By: _____ Date: _____ Time: _____

2. Reinstated By: _____ Date: _____ Time: _____

3. Reinstated By: _____ Date: _____ Time: _____

4. Received By: _____ Date: _____ Time: _____

5. Received By: _____ Date: _____ Time: _____

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD
INEMNCOQ EAVIHCYV APA SN



5560 Corporate Exchange Court SE
Grand Rapids, MI 49512

Phone (616) 975-4500 Fax (616) 942-7463

www.trimatrixlabs.com

Chain of Custody Record

COC No.

149690

Analyses Requested

Pg. 2 of 3

← PRESERVATIVES
A NONE pH<7
B HNO₃ pH<2
C H₂SO₄ pH<2
D 1+1 HCl pH<2
E NaOH pH<12
F ZnAc₂/NaOH pH<9
G MeOH
H Other (note below)

For Lab Use Only

Cart

VOA Receipt #

Receipt Log No. 3720

Project Order #

Work Order # 111899

Client Name R. David Muesch

Address 104 Rivercliff Dr

City, State, Zip

CONVELLY SPRINGS, NC 28612

Phone/Fax 828 291 3900

Email

Project Name GSI/MWA

Client Project No. / P.O. No. PRR 96-01

Invoice To PRR

Client Other (comments)

Contact/Report To RDM

| Container Type (corresponds to Container Packing List) | Number of Containers Submitted |
|--|--------------------------------|
| B | 1 |
| B260 | |

| Schedule | Matrix Code | Sample Number | Field Sample ID | Cooler ID | Sample Date | Sample Time | Matrix | Number of Containers Submitted | Seal | Sample Comments |
|----------|-------------|---------------|-----------------|-----------|-------------|-------------|--------|--------------------------------|------|-----------------|
| | | 11 | 06-21 / 3 | | 11-3-14 | 1010 | WW 2 | | | |
| | | 12 | DUP #3 | | | 1010 | WW 2 | | | |
| | | 13 | 06-21 / 4 | | | 1025 | WW 2 | | | |
| | | 14 | 06-21 / 5 | | | 1040 | WW 2 | | | |
| | | 15 | IW-18 | | | 1125 | WW 2 | | | |
| | | 16 | 9E-244A | | | 1145 | WW 2 | | | |
| | | 17 | 97-212B | | | 1225 | WW 2 | | | |
| | | 18 | 97-213B | | | 1220 | WW 2 | | | |
| | | 19 | IW-21 | | | 1245 | WW 2 | | | |
| | | 20 | IW-24 | | | 1315 | WW 2 | | | |

Sampled By (print) R. David Muesch

How Shipped? Tracking No.

Stand Carrier Fed Ex

1. Received By Date Time

2. Requisitioned By Date Time

3. Requisitioned For Lab By Date Time

Company

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

INEMN000 EAVIHCYV APA SN

Page 7 of 8



5560 Corporate Exchange Court SE
Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No.

149694

Analyses Requested

Pg. 2 of 2

← PRESERVATIVES

- A NONE pH-7
- B HNO₃ pH<2
- C H₂SO₄ pH<2
- D 1+1 HCl pH<2
- E NaOH pH>12
- F ZnAc/NaOH pH>9
- G MeOH
- H Other (note below)

| Container ID | Container Type (corresponds to Container Packing List) | Number of Containers Submitted | Total | Sample Comments |
|--------------|--|--------------------------------|-------|-----------------|
| 8260 | | | | |
| | | | | |
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| | | | | |

Client Name: **R. DAVID MURPHY**
 Project Name: **GSI/MNA**
 Address: **109 RIVERLIFE DR**
 City, State Zip: **CONVELLY SPRINGS NC 28612**
 Invoice To: **PRR** Client Other (comments)
 Contact/Report To: **RDM**

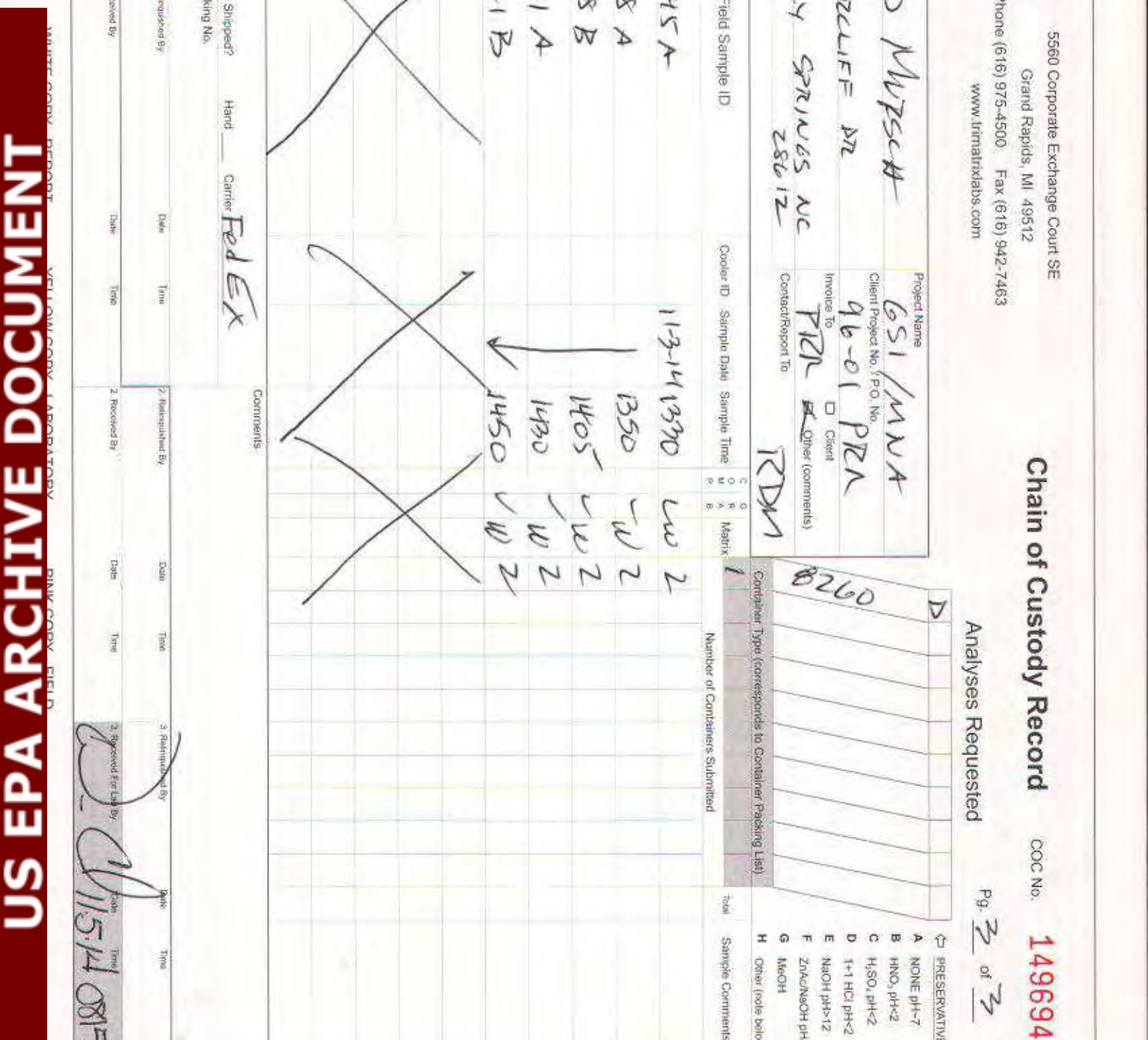
Receipt Log No.: **3720**
 Project Origin: **PRR**
 Work Order No.: **111099**

| Schedule | Matrix Code | Sample Number | Field Sample ID | Cooler ID | Sample Date | Sample Time | C | O | R | M | Matrix | Number of Containers Submitted | Total | Sample Comments |
|----------|-------------|---------------|-----------------|-----------|-------------|-------------|---|---|---|---|--------|--------------------------------|-------|-----------------|
| | | 21 | 98-245A | | 11-3-14 | 1330 | | | | | W 2 | | | |
| | | 22 | 83-28 A | | | 1350 | | | | | W 2 | | | |
| | | 23 | 83-28 B | | | 1405 | | | | | W 2 | | | |
| | | 24 | 83-21 A | | | 1430 | | | | | W 2 | | | |
| | | 25 | 83-21 B | | | 1450 | | | | | W 2 | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Sampled By (print): **R. DAVID MURPHY**
 Sampler's Signature: *[Signature]*
 Company: **PRR**

How Shipped? **Hand** Carrier: **FedEx**
 Tracking No. _____
 Relinquished By: _____ Date: _____ Time: _____

Comments: _____
 Relinquished By: _____ Date: _____ Time: _____
 Received for Lab by: *[Signature]* Date: **11/5/14** Time: **0815**



November 21, 2014

Prairie Ronde Realty Company
Attn: Mr. R. David Mursch
104 Rivercliff Drive
Connelly Springs, NC 28612

Project: NCP Dowagiac, MI

Dear Mr. R. David Mursch,

Enclosed is a copy of the laboratory report for the following work order(s) received by TriMatrix Laboratories:

| Work Order | Received | Description |
|-------------------|-----------------|--------------------|
| 1411066 | 11/04/2014 | BDA/OBP |

This report relates only to the sample(s) as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) and/or one of the following certification programs:

ACCLASS DoD-ELAP/ISO17025 (#ADE-1542); Arkansas DEP (#88-0730/13-049-0); Florida DEP (#E87622-24); Georgia EPD (#E87622-24); Illinois DEP (#200026/003329); Kansas DPH (#E-10302); Kentucky DEP (#0021); Louisiana DEP (#103068); Michigan DPH (#0034); Minnesota DPH (#491715); New York ELAP (#11776/48855); North Carolina DNRE (#659); Texas CEQ (#T104704495-14-4); Virginia DCLS (#460153/2592); Wisconsin DNR (#999472650); USDA Soil Import Permit (#P330-12-00236).

Any qualification or narration of results, including sample acceptance requirements and test exceptions to the above referenced programs, is presented in the Statement of Data Qualifications and Project Technical Narrative sections of this report. Estimates of analytical uncertainties and certification documents for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,



Gary L. Wood
Project Chemist

US EPA ARCHIVE DOCUMENT

PROJECT TECHNICAL NARRATIVE(s)**Dissolved Gases in Water by RSK-175 Headspace Analysis**

Narrative: Due to sample volumes, batch matrix quality control (QC) was not performed for this analysis. A Method Blank and Laboratory Control Sample comprise the batch QC.

Analysis: RSK-175

Sample/Analyte: 1411066-01 98-226A
1411066-01 98-226A
1411066-01 98-226A
1411066-02 98-225B
1411066-02 98-225B
1411066-02 98-225B
1411066-03 98-220A
1411066-03 98-220A
1411066-03 98-220A
1411066-04 IW-9
1411066-04 IW-9
1411066-04 IW-9
1411066-05 98-223A
1411066-05 98-223A
1411066-05 98-223A
1411066-06 98-223B
1411066-06 98-223B
1411066-06 98-223B
1411066-07 96-203A
1411066-07 96-203A
1411066-07 96-203A

PROJECT TECHNICAL NARRATIVE(s)**Volatile Organic Compounds by EPA Method 8260B**

Narrative: The chemical utilized to preserve this sample has the potential to degrade 2-chloroethyl vinyl ether through polymerization or other rapid chemical reaction.

Analysis: USEPA-8260B

Sample/Analyte: 1411066-01 98-226A
1411066-02 98-225B
1411066-02RE1 98-225B
1411066-03 98-220A
1411066-04 IW-9
1411066-05 98-223A
1411066-06 98-223B
1411066-07 96-203A

STATEMENT OF DATA QUALIFICATIONS

Volatile Organic Compounds by EPA Method 8260B

Qualification: The associated Internal Standard response was outside the control limit. The results for these analytes are considered estimated.

Analysis: USEPA-8260B

| | | | |
|-----------------|------------|---------|---------------------------|
| Sample/Analyte: | 1411066-07 | 96-203A | 1,1,2,2-Tetrachloroethane |
| | 1411066-07 | 96-203A | 1,2-Dichlorobenzene |
| | 1411066-07 | 96-203A | 1,4-Dichlorobenzene |

Qualification: The result for this analyte was above the linear range of the initial calibration curve and must be considered as estimated "E".

Analysis: USEPA-8260B

| | | | |
|-----------------|---------------|---------|------------------------|
| Sample/Analyte: | 1411066-02RE1 | 98-225B | cis-1,2-Dichloroethene |
|-----------------|---------------|---------|------------------------|

Qualification: The corresponding CCV for this analytical batch had a recovery exceeding the upper control limit of the method. A positive result for this analyte in any associated samples are considered estimated. Non-detectable results are not qualified.

Analysis: USEPA-8260B

| | | | |
|-----------------|---------------|---------|------------------|
| Sample/Analyte: | 1411066-01 | 98-226A | Carbon Disulfide |
| | 1411066-02RE1 | 98-225B | Carbon Disulfide |
| | 1411066-03 | 98-220A | Carbon Disulfide |
| | 1411066-07 | 96-203A | Carbon Disulfide |

Qualification: The corresponding CCV for this analytical batch had a recovery below the lower control limit of the method. Positive results for this analyte in any associated samples are considered estimated; non-detectable results are considered approximate.

Analysis: USEPA-8260B

| | | | |
|-----------------|---------------|---------|---------------------------|
| Sample/Analyte: | 1411066-01 | 98-226A | 2-Chloroethyl Vinyl Ether |
| | 1411066-02RE1 | 98-225B | 2-Chloroethyl Vinyl Ether |
| | 1411066-03 | 98-220A | 2-Chloroethyl Vinyl Ether |
| | 1411066-07 | 96-203A | 2-Chloroethyl Vinyl Ether |

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-226A**
 Lab Sample ID: **1411066-01**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 07:55
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|----------------|-------------------|------|------|-----------------|---------|--------------------|-----|----------|
| Ethane | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 11:31 | JMF | 1412536 |
| Methane | 1.1 | 0.50 | ug/L | 1 | RSK-175 | 11/13/14 11:31 | JMF | 1412536 |
| Ethylene | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 11:31 | JMF | 1412536 |

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411066 |
| Project: NCP Dowagiac, MI | Description: BDA/OBP |
| Client Sample ID: 98-226A | Sampled: 11/01/14 07:55 |
| Lab Sample ID: 1411066-01 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 10 | Analyzed: 11/06/14 16:04 By: DLV |
| QC Batch: 1412441 | Analytical Batch: 4K06042 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|-----|
| 67-64-1 | Acetone | <50 | 50 |
| 71-43-2 | Benzene | <10 | 10 |
| 75-27-4 | Bromodichloromethane | <2.5 | 2.5 |
| *75-15-0 | Carbon Disulfide | <50 | 50 |
| 56-23-5 | Carbon Tetrachloride | <10 | 10 |
| 108-90-7 | Chlorobenzene | <10 | 10 |
| *110-75-8 | 2-Chloroethyl Vinyl Ether | <50 | 50 |
| 67-66-3 | Chloroform | <2.5 | 2.5 |
| 74-87-3 | Chloromethane | <10 | 10 |
| 95-50-1 | 1,2-Dichlorobenzene | <10 | 10 |
| 106-46-7 | 1,4-Dichlorobenzene | <10 | 10 |
| 75-34-3 | 1,1-Dichloroethane | <10 | 10 |
| 107-06-2 | 1,2-Dichloroethane | <10 | 10 |
| 75-35-4 | 1,1-Dichloroethene | <10 | 10 |
| 156-59-2 | cis-1,2-Dichloroethene | 930 | 10 |
| 156-60-5 | trans-1,2-Dichloroethene | <10 | 10 |
| 78-87-5 | 1,2-Dichloropropane | <10 | 10 |
| 100-41-4 | Ethylbenzene | <10 | 10 |
| 591-78-6 | 2-Hexanone | <50 | 50 |
| 75-09-2 | Methylene Chloride | <10 | 10 |
| 78-93-3 | 2-Butanone (MEK) | 180 | 50 |
| 100-42-5 | Styrene | <10 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <5.0 | 5.0 |
| 127-18-4 | Tetrachloroethene | <10 | 10 |
| 108-88-3 | Toluene | <10 | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | <10 | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | <10 | 10 |
| 79-01-6 | Trichloroethene | 46 | 10 |
| 75-01-4 | Vinyl Chloride | <10 | 10 |

Continued on next page

*See Statement of Data Qualifications

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411066 |
| Project: NCP Dowagiac, MI | Description: BDA/OBP |
| Client Sample ID: 98-226A | Sampled: 11/01/14 07:55 |
| Lab Sample ID: 1411066-01 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 10 | Analyzed: 11/06/14 16:04 By: DLV |
| QC Batch: 1412441 | Analytical Batch: 4K06042 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|------------------------------|-------------------|-----------------------|----|
| 1330-20-7 | Xylene (Total) | <30 | 30 |
| Surrogates: | | | |
| | % Recovery | Control Limits | |
| <i>Dibromofluoromethane</i> | <i>110</i> | <i>85-118</i> | |
| <i>1,2-Dichloroethane-d4</i> | <i>109</i> | <i>87-122</i> | |
| <i>Toluene-d8</i> | <i>97</i> | <i>85-113</i> | |
| <i>4-Bromofluorobenzene</i> | <i>83</i> | <i>82-110</i> | |

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-226A**
 Lab Sample ID: **1411066-01**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 07:55
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | 8.1 | 1.0 | ug/L | 1 | USEPA-6020A | 11/07/14 12:07 | MSM | 1412381 |
| Iron | 4000 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:04 | CKD | 1412445 |
| Manganese | 700 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:04 | CKD | 1412445 |

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-226A**
 Lab Sample ID: **1411066-01**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 07:55
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------------|-------------------|------|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 8.7 | 0.50 | mg/L | 1 | SM 5310 C-2011 | 11/13/14 00:51 | KAR | 1412813 |

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-225B**
 Lab Sample ID: **1411066-02**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 08:20
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|----------------|-------------------|-----|------|-----------------|---------|--------------------|-----|----------|
| Ethane | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 11:35 | JMF | 1412536 |
| Methane | 1000 | 20 | ug/L | 40 | RSK-175 | 11/13/14 11:41 | JMF | 1412536 |
| Ethylene | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 11:35 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411066 |
| Project: NCP Dowagiac, MI | Description: BDA/OBP |
| Client Sample ID: 98-225B | Sampled: 11/01/14 08:20 |
| Lab Sample ID: 1411066-02 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 25 | Analyzed: 11/06/14 11:19 By: DLV |
| QC Batch: 1412493 | Analytical Batch: 4K07019 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|-----|
| 67-64-1 | Acetone | <120 | 120 |
| 71-43-2 | Benzene | <25 | 25 |
| 75-27-4 | Bromodichloromethane | <6.2 | 6.2 |
| 75-15-0 | Carbon Disulfide | <120 | 120 |
| 56-23-5 | Carbon Tetrachloride | <25 | 25 |
| 108-90-7 | Chlorobenzene | <25 | 25 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <120 | 120 |
| 67-66-3 | Chloroform | <6.2 | 6.2 |
| 74-87-3 | Chloromethane | <25 | 25 |
| 95-50-1 | 1,2-Dichlorobenzene | <25 | 25 |
| 106-46-7 | 1,4-Dichlorobenzene | <25 | 25 |
| 75-34-3 | 1,1-Dichloroethane | <25 | 25 |
| 107-06-2 | 1,2-Dichloroethane | <25 | 25 |
| 75-35-4 | 1,1-Dichloroethene | <25 | 25 |
| 156-59-2 | cis-1,2-Dichloroethene | 2200 | 25 |
| 156-60-5 | trans-1,2-Dichloroethene | <25 | 25 |
| 78-87-5 | 1,2-Dichloropropane | <25 | 25 |
| 100-41-4 | Ethylbenzene | <25 | 25 |
| 591-78-6 | 2-Hexanone | <120 | 120 |
| 75-09-2 | Methylene Chloride | <25 | 25 |
| 78-93-3 | 2-Butanone (MEK) | <120 | 120 |
| 100-42-5 | Styrene | <25 | 25 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <12 | 12 |
| 127-18-4 | Tetrachloroethene | <25 | 25 |
| 108-88-3 | Toluene | <25 | 25 |
| 71-55-6 | 1,1,1-Trichloroethane | <25 | 25 |
| 79-00-5 | 1,1,2-Trichloroethane | <25 | 25 |
| 79-01-6 | Trichloroethene | 54 | 25 |
| 75-01-4 | Vinyl Chloride | <25 | 25 |

Continued on next page

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411066 |
| Project: | NCP Dowagiac, MI | Description: | BDA/OBP |
| Client Sample ID: | 98-225B | Sampled: | 11/01/14 08:20 |
| Lab Sample ID: | 1411066-02 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/06/14 08:00 By: DLV |
| Dilution Factor: | 25 | Analyzed: | 11/06/14 11:19 By: DLV |
| QC Batch: | 1412493 | Analytical Batch: | 4K07019 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| 1330-20-7 | Xylene (Total) | <75 | 75 |
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | 97 | 85-118 |
| | <i>1,2-Dichloroethane-d4</i> | 92 | 87-122 |
| | <i>Toluene-d8</i> | 98 | 85-113 |
| | <i>4-Bromofluorobenzene</i> | 93 | 82-110 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-225B**
 Lab Sample ID: **1411066-02**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 08:20
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | 2.2 | 1.0 | ug/L | 1 | USEPA-6020A | 11/07/14 12:09 | MSM | 1412381 |
| Iron | 3100 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:08 | CKD | 1412445 |
| Manganese | 340 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:08 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-225B**
 Lab Sample ID: **1411066-02**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 08:20
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------------|-------------------|-----|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 12 | 2.5 | mg/L | 5 | SM 5310 C-2011 | 11/13/14 01:02 | KAR | 1412813 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411066 |
| Project: NCP Dowagiac, MI | Description: BDA/OBP |
| Client Sample ID: 98-225B | Sampled: 11/01/14 08:20 |
| Lab Sample ID: 1411066-02RE1 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 5 | Analyzed: 11/06/14 16:30 By: DLV |
| QC Batch: 1412441 | Analytical Batch: 4K06042 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|-----|
| 67-64-1 | Acetone | <25 | 25 |
| 71-43-2 | Benzene | <5.0 | 5.0 |
| 75-27-4 | Bromodichloromethane | <1.2 | 1.2 |
| *75-15-0 | Carbon Disulfide | <25 | 25 |
| 56-23-5 | Carbon Tetrachloride | <5.0 | 5.0 |
| 108-90-7 | Chlorobenzene | <5.0 | 5.0 |
| *110-75-8 | 2-Chloroethyl Vinyl Ether | <25 | 25 |
| 67-66-3 | Chloroform | <1.2 | 1.2 |
| 74-87-3 | Chloromethane | <5.0 | 5.0 |
| 95-50-1 | 1,2-Dichlorobenzene | <5.0 | 5.0 |
| 106-46-7 | 1,4-Dichlorobenzene | <5.0 | 5.0 |
| 75-34-3 | 1,1-Dichloroethane | <5.0 | 5.0 |
| 107-06-2 | 1,2-Dichloroethane | <5.0 | 5.0 |
| 75-35-4 | 1,1-Dichloroethene | <5.0 | 5.0 |
| *156-59-2 | cis-1,2-Dichloroethene | 2400 | 5.0 |
| 156-60-5 | trans-1,2-Dichloroethene | 25 | 5.0 |
| 78-87-5 | 1,2-Dichloropropane | <5.0 | 5.0 |
| 100-41-4 | Ethylbenzene | <5.0 | 5.0 |
| 591-78-6 | 2-Hexanone | <25 | 25 |
| 75-09-2 | Methylene Chloride | <5.0 | 5.0 |
| 78-93-3 | 2-Butanone (MEK) | <25 | 25 |
| 100-42-5 | Styrene | <5.0 | 5.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <2.5 | 2.5 |
| 127-18-4 | Tetrachloroethene | <5.0 | 5.0 |
| 108-88-3 | Toluene | <5.0 | 5.0 |
| 71-55-6 | 1,1,1-Trichloroethane | <5.0 | 5.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <5.0 | 5.0 |
| 79-01-6 | Trichloroethene | 63 | 5.0 |
| 75-01-4 | Vinyl Chloride | 8.5 | 5.0 |
| 1330-20-7 | Xylene (Total) | <15 | 15 |

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411066 |
| Project: | NCP Dowagiac, MI | Description: | BDA/OBP |
| Client Sample ID: | 98-225B | Sampled: | 11/01/14 08:20 |
| Lab Sample ID: | 1411066-02RE1 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/06/14 08:00 By: DLV |
| Dilution Factor: | 5 | Analyzed: | 11/06/14 16:30 By: DLV |
| QC Batch: | 1412441 | Analytical Batch: | 4K06042 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | 110 | 85-118 |
| | <i>1,2-Dichloroethane-d4</i> | 104 | 87-122 |
| | <i>Toluene-d8</i> | 97 | 85-113 |
| | <i>4-Bromofluorobenzene</i> | 84 | 82-110 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-220A**
 Lab Sample ID: **1411066-03**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 08:45
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|----------------|-------------------|------|------|-----------------|---------|--------------------|-----|----------|
| Ethane | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 11:46 | JMF | 1412536 |
| Methane | 0.79 | 0.50 | ug/L | 1 | RSK-175 | 11/13/14 11:46 | JMF | 1412536 |
| Ethylene | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 11:46 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411066 |
| Project: NCP Dowagiac, MI | Description: BDA/OBP |
| Client Sample ID: 98-220A | Sampled: 11/01/14 08:45 |
| Lab Sample ID: 1411066-03 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 2 | Analyzed: 11/06/14 16:57 By: DLV |
| QC Batch: 1412441 | Analytical Batch: 4K06042 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|------|
| 67-64-1 | Acetone | <10 | 10 |
| 71-43-2 | Benzene | <2.0 | 2.0 |
| 75-27-4 | Bromodichloromethane | <0.50 | 0.50 |
| *75-15-0 | Carbon Disulfide | <10 | 10 |
| 56-23-5 | Carbon Tetrachloride | <2.0 | 2.0 |
| 108-90-7 | Chlorobenzene | <2.0 | 2.0 |
| *110-75-8 | 2-Chloroethyl Vinyl Ether | <10 | 10 |
| 67-66-3 | Chloroform | <0.50 | 0.50 |
| 74-87-3 | Chloromethane | <2.0 | 2.0 |
| 95-50-1 | 1,2-Dichlorobenzene | <2.0 | 2.0 |
| 106-46-7 | 1,4-Dichlorobenzene | <2.0 | 2.0 |
| 75-34-3 | 1,1-Dichloroethane | <2.0 | 2.0 |
| 107-06-2 | 1,2-Dichloroethane | <2.0 | 2.0 |
| 75-35-4 | 1,1-Dichloroethene | <2.0 | 2.0 |
| 156-59-2 | cis-1,2-Dichloroethene | 210 | 2.0 |
| 156-60-5 | trans-1,2-Dichloroethene | <2.0 | 2.0 |
| 78-87-5 | 1,2-Dichloropropane | <2.0 | 2.0 |
| 100-41-4 | Ethylbenzene | <2.0 | 2.0 |
| 591-78-6 | 2-Hexanone | <10 | 10 |
| 75-09-2 | Methylene Chloride | <2.0 | 2.0 |
| 78-93-3 | 2-Butanone (MEK) | <10 | 10 |
| 100-42-5 | Styrene | <2.0 | 2.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 |
| 127-18-4 | Tetrachloroethene | <2.0 | 2.0 |
| 108-88-3 | Toluene | <2.0 | 2.0 |
| 71-55-6 | 1,1,1-Trichloroethane | <2.0 | 2.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <2.0 | 2.0 |
| 79-01-6 | Trichloroethene | 14 | 2.0 |
| 75-01-4 | Vinyl Chloride | <2.0 | 2.0 |

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411066 |
| Project: | NCP Dowagiac, MI | Description: | BDA/OBP |
| Client Sample ID: | 98-220A | Sampled: | 11/01/14 08:45 |
| Lab Sample ID: | 1411066-03 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/06/14 08:00 By: DLV |
| Dilution Factor: | 2 | Analyzed: | 11/06/14 16:57 By: DLV |
| QC Batch: | 1412441 | Analytical Batch: | 4K06042 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| 1330-20-7 | Xylene (Total) | <6.0 | 6.0 |
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | <i>107</i> | <i>85-118</i> |
| | <i>1,2-Dichloroethane-d4</i> | <i>107</i> | <i>87-122</i> |
| | <i>Toluene-d8</i> | <i>97</i> | <i>85-113</i> |
| | <i>4-Bromofluorobenzene</i> | <i>82</i> | <i>82-110</i> |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-220A**
 Lab Sample ID: **1411066-03**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 08:45
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | 5.3 | 1.0 | ug/L | 1 | USEPA-6020A | 11/07/14 12:10 | MSM | 1412381 |
| Iron | 2300 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:12 | CKD | 1412445 |
| Manganese | 610 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:12 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-220A**
 Lab Sample ID: **1411066-03**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 08:45
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------------------|-------------------|------|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 1.3 | 0.50 | mg/L | 1 | SM 5310 C-2011 | 11/13/14 01:25 | KAR | 1412813 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **IW-9**
 Lab Sample ID: **1411066-04**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 09:10
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|----------------|-------------------|------|------|-----------------|---------|--------------------|-----|----------|
| Ethane | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 11:50 | JMF | 1412536 |
| Methane | 1.2 | 0.50 | ug/L | 1 | RSK-175 | 11/13/14 11:50 | JMF | 1412536 |
| Ethylene | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 11:50 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411066 |
| Project: NCP Dowagiac, MI | Description: BDA/OBP |
| Client Sample ID: IW-9 | Sampled: 11/01/14 09:10 |
| Lab Sample ID: 1411066-04 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 2 | Analyzed: 11/06/14 12:19 By: DLV |
| QC Batch: 1412493 | Analytical Batch: 4K07019 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|------|
| 67-64-1 | Acetone | <10 | 10 |
| 71-43-2 | Benzene | <2.0 | 2.0 |
| 75-27-4 | Bromodichloromethane | <0.50 | 0.50 |
| 75-15-0 | Carbon Disulfide | <10 | 10 |
| 56-23-5 | Carbon Tetrachloride | <2.0 | 2.0 |
| 108-90-7 | Chlorobenzene | <2.0 | 2.0 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <10 | 10 |
| 67-66-3 | Chloroform | <0.50 | 0.50 |
| 74-87-3 | Chloromethane | <2.0 | 2.0 |
| 95-50-1 | 1,2-Dichlorobenzene | <2.0 | 2.0 |
| 106-46-7 | 1,4-Dichlorobenzene | <2.0 | 2.0 |
| 75-34-3 | 1,1-Dichloroethane | <2.0 | 2.0 |
| 107-06-2 | 1,2-Dichloroethane | <2.0 | 2.0 |
| 75-35-4 | 1,1-Dichloroethene | <2.0 | 2.0 |
| 156-59-2 | cis-1,2-Dichloroethene | 3.1 | 2.0 |
| 156-60-5 | trans-1,2-Dichloroethene | <2.0 | 2.0 |
| 78-87-5 | 1,2-Dichloropropane | <2.0 | 2.0 |
| 100-41-4 | Ethylbenzene | <2.0 | 2.0 |
| 591-78-6 | 2-Hexanone | <10 | 10 |
| 75-09-2 | Methylene Chloride | <2.0 | 2.0 |
| 78-93-3 | 2-Butanone (MEK) | <10 | 10 |
| 100-42-5 | Styrene | <2.0 | 2.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 |
| 127-18-4 | Tetrachloroethene | <2.0 | 2.0 |
| 108-88-3 | Toluene | <2.0 | 2.0 |
| 71-55-6 | 1,1,1-Trichloroethane | <2.0 | 2.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <2.0 | 2.0 |
| 79-01-6 | Trichloroethene | 180 | 2.0 |
| 75-01-4 | Vinyl Chloride | <2.0 | 2.0 |

Continued on next page

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411066 |
| Project: | NCP Dowagiac, MI | Description: | BDA/OBP |
| Client Sample ID: | IW-9 | Sampled: | 11/01/14 09:10 |
| Lab Sample ID: | 1411066-04 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/06/14 08:00 By: DLV |
| Dilution Factor: | 2 | Analyzed: | 11/06/14 12:19 By: DLV |
| QC Batch: | 1412493 | Analytical Batch: | 4K07019 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| 1330-20-7 | Xylene (Total) | <6.0 | 6.0 |
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | 97 | 85-118 |
| | <i>1,2-Dichloroethane-d4</i> | 95 | 87-122 |
| | <i>Toluene-d8</i> | 99 | 85-113 |
| | <i>4-Bromofluorobenzene</i> | 94 | 82-110 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **IW-9**
 Lab Sample ID: **1411066-04**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 09:10
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | <1.0 | 1.0 | ug/L | 1 | USEPA-6020A | 11/07/14 12:16 | MSM | 1412381 |
| Iron | 22 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:15 | CKD | 1412445 |
| Manganese | 150 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:15 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **IW-9**
 Lab Sample ID: **1411066-04**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 09:10
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------------|-------------------|------|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 0.62 | 0.50 | mg/L | 1 | SM 5310 C-2011 | 11/13/14 01:36 | KAR | 1412813 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-223A**
 Lab Sample ID: **1411066-05**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 16:45
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|----------|-------------------|------|------|-----------------|---------|--------------------|-----|----------|
| Ethane | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 11:54 | JMF | 1412536 |
| Methane | <0.50 | 0.50 | ug/L | 1 | RSK-175 | 11/13/14 11:54 | JMF | 1412536 |
| Ethylene | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 11:54 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411066 |
| Project: NCP Dowagiac, MI | Description: BDA/OBP |
| Client Sample ID: 98-223A | Sampled: 11/01/14 16:45 |
| Lab Sample ID: 1411066-05 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 1 | Analyzed: 11/06/14 12:47 By: DLV |
| QC Batch: 1412493 | Analytical Batch: 4K07019 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|------|
| 67-64-1 | Acetone | <5.0 | 5.0 |
| 71-43-2 | Benzene | <1.0 | 1.0 |
| 75-27-4 | Bromodichloromethane | <0.25 | 0.25 |
| 75-15-0 | Carbon Disulfide | <5.0 | 5.0 |
| 56-23-5 | Carbon Tetrachloride | <1.0 | 1.0 |
| 108-90-7 | Chlorobenzene | <1.0 | 1.0 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <5.0 | 5.0 |
| 67-66-3 | Chloroform | <0.25 | 0.25 |
| 74-87-3 | Chloromethane | <1.0 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | <1.0 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | <1.0 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | <1.0 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | <1.0 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | <1.0 | 1.0 |
| 156-59-2 | cis-1,2-Dichloroethene | 33 | 1.0 |
| 156-60-5 | trans-1,2-Dichloroethene | <1.0 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | <1.0 | 1.0 |
| 100-41-4 | Ethylbenzene | <1.0 | 1.0 |
| 591-78-6 | 2-Hexanone | <5.0 | 5.0 |
| 75-09-2 | Methylene Chloride | <1.0 | 1.0 |
| 78-93-3 | 2-Butanone (MEK) | <5.0 | 5.0 |
| 100-42-5 | Styrene | <1.0 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <0.50 | 0.50 |
| 127-18-4 | Tetrachloroethene | <1.0 | 1.0 |
| 108-88-3 | Toluene | <1.0 | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | <1.0 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <1.0 | 1.0 |
| 79-01-6 | Trichloroethene | 75 | 1.0 |
| 75-01-4 | Vinyl Chloride | <1.0 | 1.0 |

Continued on next page

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411066 |
| Project: | NCP Dowagiac, MI | Description: | BDA/OBP |
| Client Sample ID: | 98-223A | Sampled: | 11/01/14 16:45 |
| Lab Sample ID: | 1411066-05 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/06/14 08:00 By: DLV |
| Dilution Factor: | 1 | Analyzed: | 11/06/14 12:47 By: DLV |
| QC Batch: | 1412493 | Analytical Batch: | 4K07019 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| 1330-20-7 | Xylene (Total) | <3.0 | 3.0 |
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | <i>97</i> | <i>85-118</i> |
| | <i>1,2-Dichloroethane-d4</i> | <i>94</i> | <i>87-122</i> |
| | <i>Toluene-d8</i> | <i>98</i> | <i>85-113</i> |
| | <i>4-Bromofluorobenzene</i> | <i>93</i> | <i>82-110</i> |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-223A**
 Lab Sample ID: **1411066-05**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 16:45
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | <1.0 | 1.0 | ug/L | 1 | USEPA-6020A | 11/07/14 12:18 | MSM | 1412381 |
| Iron | <10 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:19 | CKD | 1412445 |
| Manganese | <10 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:19 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-223A**
 Lab Sample ID: **1411066-05**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 16:45
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------------|-------------------|------|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 0.97 | 0.50 | mg/L | 1 | SM 5310 C-2011 | 11/13/14 01:47 | KAR | 1412813 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-223B**
 Lab Sample ID: **1411066-06**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 17:05
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|----------------|-------------------|------|------|-----------------|---------|--------------------|-----|----------|
| Ethane | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 11:58 | JMF | 1412536 |
| Methane | 1.9 | 0.50 | ug/L | 1 | RSK-175 | 11/13/14 11:58 | JMF | 1412536 |
| Ethylene | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 11:58 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411066 |
| Project: NCP Dowagiac, MI | Description: BDA/OBP |
| Client Sample ID: 98-223B | Sampled: 11/01/14 17:05 |
| Lab Sample ID: 1411066-06 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 2 | Analyzed: 11/06/14 13:15 By: DLV |
| QC Batch: 1412493 | Analytical Batch: 4K07019 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|------|
| 67-64-1 | Acetone | <10 | 10 |
| 71-43-2 | Benzene | <2.0 | 2.0 |
| 75-27-4 | Bromodichloromethane | <0.50 | 0.50 |
| 75-15-0 | Carbon Disulfide | <10 | 10 |
| 56-23-5 | Carbon Tetrachloride | <2.0 | 2.0 |
| 108-90-7 | Chlorobenzene | <2.0 | 2.0 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | <10 | 10 |
| 67-66-3 | Chloroform | <0.50 | 0.50 |
| 74-87-3 | Chloromethane | <2.0 | 2.0 |
| 95-50-1 | 1,2-Dichlorobenzene | <2.0 | 2.0 |
| 106-46-7 | 1,4-Dichlorobenzene | <2.0 | 2.0 |
| 75-34-3 | 1,1-Dichloroethane | <2.0 | 2.0 |
| 107-06-2 | 1,2-Dichloroethane | <2.0 | 2.0 |
| 75-35-4 | 1,1-Dichloroethene | <2.0 | 2.0 |
| 156-59-2 | cis-1,2-Dichloroethene | 66 | 2.0 |
| 156-60-5 | trans-1,2-Dichloroethene | 2.2 | 2.0 |
| 78-87-5 | 1,2-Dichloropropane | <2.0 | 2.0 |
| 100-41-4 | Ethylbenzene | <2.0 | 2.0 |
| 591-78-6 | 2-Hexanone | <10 | 10 |
| 75-09-2 | Methylene Chloride | <2.0 | 2.0 |
| 78-93-3 | 2-Butanone (MEK) | <10 | 10 |
| 100-42-5 | Styrene | <2.0 | 2.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 |
| 127-18-4 | Tetrachloroethene | <2.0 | 2.0 |
| 108-88-3 | Toluene | <2.0 | 2.0 |
| 71-55-6 | 1,1,1-Trichloroethane | <2.0 | 2.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <2.0 | 2.0 |
| 79-01-6 | Trichloroethene | 180 | 2.0 |
| 75-01-4 | Vinyl Chloride | <2.0 | 2.0 |

Continued on next page

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411066 |
| Project: | NCP Dowagiac, MI | Description: | BDA/OBP |
| Client Sample ID: | 98-223B | Sampled: | 11/01/14 17:05 |
| Lab Sample ID: | 1411066-06 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/06/14 08:00 By: DLV |
| Dilution Factor: | 2 | Analyzed: | 11/06/14 13:15 By: DLV |
| QC Batch: | 1412493 | Analytical Batch: | 4K07019 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| 1330-20-7 | Xylene (Total) | <6.0 | 6.0 |
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | 98 | 85-118 |
| | <i>1,2-Dichloroethane-d4</i> | 95 | 87-122 |
| | <i>Toluene-d8</i> | 98 | 85-113 |
| | <i>4-Bromofluorobenzene</i> | 93 | 82-110 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-223B**
 Lab Sample ID: **1411066-06**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 17:05
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | <1.0 | 1.0 | ug/L | 1 | USEPA-6020A | 11/07/14 12:20 | MSM | 1412381 |
| Iron | 34 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:23 | CKD | 1412445 |
| Manganese | 14 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:23 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **98-223B**
 Lab Sample ID: **1411066-06**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 17:05
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------------------|-------------------|------|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 0.60 | 0.50 | mg/L | 1 | SM 5310 C-2011 | 11/13/14 01:58 | KAR | 1412813 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **96-203A**
 Lab Sample ID: **1411066-07**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 17:35
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|----------------|-------------------|------|------|-----------------|---------|--------------------|-----|----------|
| Ethane | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 12:15 | JMF | 1412536 |
| Methane | 2.4 | 0.50 | ug/L | 1 | RSK-175 | 11/13/14 12:15 | JMF | 1412536 |
| Ethylene | <1.0 | 1.0 | ug/L | 1 | RSK-175 | 11/13/14 12:15 | JMF | 1412536 |

ANALYTICAL REPORT

| | |
|---|----------------------------------|
| Client: Prairie Ronde Realty Company | Work Order: 1411066 |
| Project: NCP Dowagiac, MI | Description: BDA/OBP |
| Client Sample ID: 96-203A | Sampled: 11/01/14 17:35 |
| Lab Sample ID: 1411066-07 | Sampled By: R. David Mursch |
| Matrix: Water | Received: 11/04/14 09:00 |
| Unit: ug/L | Prepared: 11/06/14 08:00 By: DLV |
| Dilution Factor: 5 | Analyzed: 11/06/14 17:23 By: DLV |
| QC Batch: 1412441 | Analytical Batch: 4K06042 |

Volatile Organic Compounds by EPA Method 8260B

| CAS Number | Analyte | Analytical Result | RL |
|------------|---------------------------|-------------------|-----|
| 67-64-1 | Acetone | <25 | 25 |
| 71-43-2 | Benzene | <5.0 | 5.0 |
| 75-27-4 | Bromodichloromethane | <1.2 | 1.2 |
| *75-15-0 | Carbon Disulfide | <25 | 25 |
| 56-23-5 | Carbon Tetrachloride | <5.0 | 5.0 |
| 108-90-7 | Chlorobenzene | <5.0 | 5.0 |
| *110-75-8 | 2-Chloroethyl Vinyl Ether | <25 | 25 |
| 67-66-3 | Chloroform | <1.2 | 1.2 |
| 74-87-3 | Chloromethane | <5.0 | 5.0 |
| *95-50-1 | 1,2-Dichlorobenzene | <5.0 | 5.0 |
| *106-46-7 | 1,4-Dichlorobenzene | <5.0 | 5.0 |
| 75-34-3 | 1,1-Dichloroethane | <5.0 | 5.0 |
| 107-06-2 | 1,2-Dichloroethane | <5.0 | 5.0 |
| 75-35-4 | 1,1-Dichloroethene | <5.0 | 5.0 |
| 156-59-2 | cis-1,2-Dichloroethene | 30 | 5.0 |
| 156-60-5 | trans-1,2-Dichloroethene | <5.0 | 5.0 |
| 78-87-5 | 1,2-Dichloropropane | <5.0 | 5.0 |
| 100-41-4 | Ethylbenzene | <5.0 | 5.0 |
| 591-78-6 | 2-Hexanone | <25 | 25 |
| 75-09-2 | Methylene Chloride | <5.0 | 5.0 |
| 78-93-3 | 2-Butanone (MEK) | <25 | 25 |
| 100-42-5 | Styrene | <5.0 | 5.0 |
| *79-34-5 | 1,1,2,2-Tetrachloroethane | <2.5 | 2.5 |
| 127-18-4 | Tetrachloroethene | <5.0 | 5.0 |
| 108-88-3 | Toluene | <5.0 | 5.0 |
| 71-55-6 | 1,1,1-Trichloroethane | <5.0 | 5.0 |
| 79-00-5 | 1,1,2-Trichloroethane | <5.0 | 5.0 |
| 79-01-6 | Trichloroethene | 590 | 5.0 |
| 75-01-4 | Vinyl Chloride | <5.0 | 5.0 |

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

| | | | |
|-------------------|-------------------------------------|-------------------|------------------------|
| Client: | Prairie Ronde Realty Company | Work Order: | 1411066 |
| Project: | NCP Dowagiac, MI | Description: | BDA/OBP |
| Client Sample ID: | 96-203A | Sampled: | 11/01/14 17:35 |
| Lab Sample ID: | 1411066-07 | Sampled By: | R. David Mursch |
| Matrix: | Water | Received: | 11/04/14 09:00 |
| Unit: | ug/L | Prepared: | 11/06/14 08:00 By: DLV |
| Dilution Factor: | 5 | Analyzed: | 11/06/14 17:23 By: DLV |
| QC Batch: | 1412441 | Analytical Batch: | 4K06042 |

Volatile Organic Compounds by EPA Method 8260B (Continued)

| CAS Number | Analyte | Analytical Result | RL |
|--------------------|------------------------------|-------------------|-----------------------|
| 1330-20-7 | Xylene (Total) | <15 | 15 |
| Surrogates: | | | |
| | | % Recovery | Control Limits |
| | <i>Dibromofluoromethane</i> | <i>111</i> | <i>85-118</i> |
| | <i>1,2-Dichloroethane-d4</i> | <i>107</i> | <i>87-122</i> |
| | <i>Toluene-d8</i> | <i>98</i> | <i>85-113</i> |
| | <i>4-Bromofluorobenzene</i> | <i>83</i> | <i>82-110</i> |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **96-203A**
 Lab Sample ID: **1411066-07**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 17:35
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Total Metals by EPA 6000/7000 Series Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|------------------|-------------------|-----|------|-----------------|-------------|--------------------|-----|----------|
| Arsenic | <1.0 | 1.0 | ug/L | 1 | USEPA-6020A | 11/07/14 12:21 | MSM | 1412381 |
| Iron | 320 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:27 | CKD | 1412445 |
| Manganese | 100 | 10 | ug/L | 1 | USEPA-6010C | 11/12/14 12:27 | CKD | 1412445 |

ANALYTICAL REPORT

Client: **Prairie Ronde Realty Company**
 Project: NCP Dowagiac, MI
 Client Sample ID: **96-203A**
 Lab Sample ID: **1411066-07**
 Matrix: Water

Work Order: **1411066**
 Description: BDA/OBP
 Sampled: 11/01/14 17:35
 Sampled By: R. David Mursch
 Received: 11/04/14 09:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| Analyte | Analytical Result | RL | Unit | Dilution Factor | Method | Date Time Analyzed | By | QC Batch |
|-----------------------|-------------------|------|------|-----------------|----------------|--------------------|-----|----------|
| Carbon, Total Organic | 0.62 | 0.50 | mg/L | 1 | SM 5310 C-2011 | 11/13/14 02:32 | KAR | 1412814 |

QUALITY CONTROL REPORT

Dissolved Gases in Water by RSK-175 Headspace Analysis

| Analyte | Sample Conc. | Spike Qty. | Result | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|

QC Batch: 1412536 Method-Specific Extraction/RSK-175

Method Blank

Unit: ug/L

Analyzed: 11/13/2014 By: JMF
 Analytical Batch: 4K14018

| | | | | | | | |
|----------|--|--|-------|--|--|----|------|
| Ethane | | | <1.0 | | | | 1.0 |
| Methane | | | <0.50 | | | -- | 0.50 |
| Ethylene | | | <1.0 | | | | 1.0 |

Laboratory Control Sample

Unit: ug/L

Analyzed: 11/13/2014 By: JMF
 Analytical Batch: 4K14018

| | | | | | | | |
|----------|------|-------------|--|----|--------|----|------|
| Ethane | 69.0 | 61.3 | | 89 | 67-122 | -- | 1.0 |
| Methane | 34.1 | 30.4 | | 89 | 70-116 | -- | 0.50 |
| Ethylene | 60.8 | 52.5 | | 86 | 67-121 | -- | 1.0 |

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B

| Analyte | Sample Conc. | Spike Qty. | Result | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|

QC Batch: 1412441 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank

Unit: ug/L

Analyzed: 11/06/2014 By: DLV
Analytical Batch: 4K06042

| | | |
|---------------------------|-------|------|
| Acetone | <5.0 | 5.0 |
| Benzene | <1.0 | 1.0 |
| Bromodichloromethane | <0.25 | 0.25 |
| Carbon Disulfide | <5.0 | 5.0 |
| Carbon Tetrachloride | <1.0 | 1.0 |
| Chlorobenzene | <1.0 | 1.0 |
| 2-Chloroethyl Vinyl Ether | <5.0 | 5.0 |
| Chloroform | <0.25 | 0.25 |
| Chloromethane | <1.0 | 1.0 |
| 1,2-Dichlorobenzene | <1.0 | 1.0 |
| 1,4-Dichlorobenzene | <1.0 | 1.0 |
| 1,1-Dichloroethane | <1.0 | 1.0 |
| 1,2-Dichloroethane | <1.0 | 1.0 |
| 1,1-Dichloroethene | <1.0 | 1.0 |
| cis-1,2-Dichloroethene | <1.0 | 1.0 |
| trans-1,2-Dichloroethene | <1.0 | 1.0 |
| 1,2-Dichloropropane | <1.0 | 1.0 |
| Ethylbenzene | <1.0 | 1.0 |
| 2-Hexanone | <5.0 | 5.0 |
| Methylene Chloride | <1.0 | 1.0 |
| 2-Butanone (MEK) | <5.0 | 5.0 |
| Styrene | <1.0 | 1.0 |
| 1,1,2,2-Tetrachloroethane | <0.50 | 0.50 |
| Tetrachloroethene | <1.0 | 1.0 |
| Toluene | <1.0 | 1.0 |
| 1,1,1-Trichloroethane | <1.0 | 1.0 |
| 1,1,2-Trichloroethane | <1.0 | 1.0 |
| Trichloroethene | <1.0 | 1.0 |
| Vinyl Chloride | <1.0 | 1.0 |
| Xylene (Total) | <3.0 | 3.0 |

Surrogates:

| | | |
|------------------------------|-----|--------|
| <i>Dibromofluoromethane</i> | 102 | 85-118 |
| <i>1,2-Dichloroethane-d4</i> | 101 | 87-122 |

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

| Analyte | Sample Conc. | Spike Qty. | Result | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|

QC Batch: 1412441 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued)

Unit: ug/L

Analyzed: 11/06/2014 By: DLV
Analytical Batch: 4K06042

Surrogates (Continued):

| | | |
|-----------------------------|----|--------|
| <i>Toluene-d8</i> | 97 | 85-113 |
| <i>4-Bromofluorobenzene</i> | 96 | 82-110 |

Laboratory Control Sample

Unit: ug/L

Analyzed: 11/06/2014 By: DLV
Analytical Batch: 4K06042

| | | | | | | |
|--------------------|------|-------------|-----|--------|----|-----|
| Benzene | 40.0 | 41.0 | 102 | 84-119 | -- | 1.0 |
| Chlorobenzene | 40.0 | 41.4 | 104 | 84-118 | -- | 1.0 |
| 1,1-Dichloroethene | 40.0 | 40.7 | 102 | 77-123 | -- | 1.0 |
| Toluene | 40.0 | 41.5 | 104 | 85-118 | -- | 1.0 |
| Trichloroethene | 40.0 | 41.8 | 104 | 82-119 | -- | 1.0 |

Surrogates:

| | | |
|------------------------------|-----|--------|
| <i>Dibromofluoromethane</i> | 106 | 85-118 |
| <i>1,2-Dichloroethane-d4</i> | 101 | 87-122 |
| <i>Toluene-d8</i> | 102 | 85-113 |
| <i>4-Bromofluorobenzene</i> | 101 | 82-110 |

QC Batch: 1412493 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank

Unit: ug/L

Analyzed: 11/06/2014 By: DLV
Analytical Batch: 4K07019

| | | | | | | |
|---------------------------|-------|--|--|--|----|------|
| Acetone | <5.0 | | | | -- | 5.0 |
| Benzene | <1.0 | | | | | 1.0 |
| Bromodichloromethane | <0.25 | | | | | 0.25 |
| Carbon Disulfide | <5.0 | | | | | 5.0 |
| Carbon Tetrachloride | <1.0 | | | | | 1.0 |
| Chlorobenzene | <1.0 | | | | | 1.0 |
| 2-Chloroethyl Vinyl Ether | <5.0 | | | | | 5.0 |
| Chloroform | <0.25 | | | | -- | 0.25 |
| Chloromethane | <1.0 | | | | | 1.0 |
| 1,2-Dichlorobenzene | <1.0 | | | | | 1.0 |
| 1,4-Dichlorobenzene | <1.0 | | | | -- | 1.0 |
| 1,1-Dichloroethane | <1.0 | | | | | 1.0 |
| 1,2-Dichloroethane | <1.0 | | | | | 1.0 |

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

| Analyte | Sample Conc. | Spike Qty. | Result | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|-----------------|---------------|--------|-----------------|-------------------|-----|---------------|----|
|---------|-----------------|---------------|--------|-----------------|-------------------|-----|---------------|----|

QC Batch: 1412493 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued)

Unit: ug/L

Analyzed: 11/06/2014 By: DLV
Analytical Batch: 4K07019

| | | |
|---------------------------|-------|------|
| 1,1-Dichloroethene | <1.0 | 1.0 |
| cis-1,2-Dichloroethene | <1.0 | 1.0 |
| trans-1,2-Dichloroethene | <1.0 | 1.0 |
| 1,2-Dichloropropane | <1.0 | 1.0 |
| Ethylbenzene | <1.0 | 1.0 |
| 2-Hexanone | <5.0 | 5.0 |
| Methylene Chloride | <1.0 | 1.0 |
| 2-Butanone (MEK) | <5.0 | 5.0 |
| Styrene | <1.0 | 1.0 |
| 1,1,2,2-Tetrachloroethane | <0.50 | 0.50 |
| Tetrachloroethene | <1.0 | 1.0 |
| Toluene | <1.0 | 1.0 |
| 1,1,1-Trichloroethane | <1.0 | 1.0 |
| 1,1,2-Trichloroethane | <1.0 | 1.0 |
| Trichloroethene | <1.0 | 1.0 |
| Vinyl Chloride | <1.0 | 1.0 |
| Xylene (Total) | <3.0 | 3.0 |

Surrogates:

| | | |
|------------------------------|----|--------|
| <i>Dibromofluoromethane</i> | 95 | 85-118 |
| <i>1,2-Dichloroethane-d4</i> | 92 | 87-122 |
| <i>Toluene-d8</i> | 97 | 85-113 |
| <i>4-Bromofluorobenzene</i> | 94 | 82-110 |

Laboratory Control Sample

Unit: ug/L

Analyzed: 11/06/2014 By: DLV
Analytical Batch: 4K07019

| | | | | | | |
|--------------------|------|-------------|-----|--------|----|-----|
| Benzene | 40.0 | 40.5 | 101 | 84-119 | -- | 1.0 |
| Chlorobenzene | 40.0 | 38.6 | 97 | 84-118 | -- | 1.0 |
| 1,1-Dichloroethene | 40.0 | 39.7 | 99 | 77-123 | -- | 1.0 |
| Toluene | 40.0 | 40.2 | 101 | 85-118 | -- | 1.0 |
| Trichloroethene | 40.0 | 42.4 | 106 | 82-119 | -- | 1.0 |

Continued on next page

QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

| Analyte | Sample Conc. | Spike Qty. | Result | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|--------------|----------------|-----|------------|----|

QC Batch: 1412493 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued)

Unit: ug/L

 Analyzed: 11/06/2014 By: DLV
 Analytical Batch: 4K07019

Surrogates:

| | | |
|------------------------------|-----|--------|
| <i>Dibromofluoromethane</i> | 99 | 85-118 |
| <i>1,2-Dichloroethane-d4</i> | 92 | 87-122 |
| <i>Toluene-d8</i> | 101 | 85-113 |
| <i>4-Bromofluorobenzene</i> | 97 | 82-110 |

QUALITY CONTROL REPORT

Total Metals by EPA 6000/7000 Series Methods

| QC Type | Sample Conc. | Spike Qty. | Result | Unit | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|------|--------------|----------------|-----|------------|----|

Analyte: Arsenic/USEPA-6020A

| | | | | | | | |
|-------------------------------------|--|------|-------------|------|----|----------------------|---------|
| QC Batch: 1412381 (3020A Digestion) | | | | | | Analyzed: 11/07/2014 | By: MSM |
| Method Blank | | | <1.0 | ug/L | | | 1.0 |
| Laboratory Control Sample | | 50.0 | 41.3 | ug/L | 83 | 80-120 | 1.0 |

Analyte: Iron/USEPA-6010C

| | | | | | | | |
|-------------------------------------|--|-----|------------|------|-----|----------------------|---------|
| QC Batch: 1412445 (3010A Digestion) | | | | | | Analyzed: 11/12/2014 | By: CKD |
| Method Blank | | | <10 | ug/L | | | 10 |
| Laboratory Control Sample | | 400 | 448 | ug/L | 112 | 80-120 | 10 |

Analyte: Manganese/USEPA-6010C

| | | | | | | | |
|-------------------------------------|--|-----|------------|------|-----|----------------------|---------|
| QC Batch: 1412445 (3010A Digestion) | | | | | | Analyzed: 11/12/2014 | By: CKD |
| Method Blank | | | <10 | ug/L | | | 10 |
| Laboratory Control Sample | | 400 | 446 | ug/L | 111 | 80-120 | 10 |

QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

| QC Type | Sample Conc. | Spike Qty. | Result | Unit | Spike % Rec. | Control Limits | RPD | RPD Limits | RL |
|---------|--------------|------------|--------|------|--------------|----------------|-----|------------|----|
|---------|--------------|------------|--------|------|--------------|----------------|-----|------------|----|

Analyte: Carbon, Total Organic/SM 5310 C-2011

| | | | | | | | |
|--|------|--|-------------|------|-----|----------------------|---------|
| QC Batch: 1412813 (General Inorganic Prep) | | | | | | Analyzed: 11/12/2014 | By: KAR |
| Method Blank | | | <0.50 | mg/L | | | 0.50 |
| Laboratory Control Sample | 2.00 | | 1.99 | mg/L | 100 | 84-118 | 0.50 |
| QC Batch: 1412814 (General Inorganic Prep) | | | | | | Analyzed: 11/13/2014 | By: KAR |
| Method Blank | | | <0.50 | mg/L | | | 0.50 |
| Laboratory Control Sample | 2.00 | | 2.04 | mg/L | 102 | 84-118 | 0.50 |



5560 Corporate Exchange Court SE
Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 149688

Pg. 1 of 1

For Lab Use Only

Analyses Requested

DDCB

RESERVATIVES

136, 176 B.
35-19
41106

Client Name

R. DAVID MURPHY

Address

104 TRIVERTLIFE DR
CONVELLY SPRINGS, MI 48122

Project Name

PRR

Client Project No. / P.O. No.

96-01

Invoice To

PRR

Other (comments)

Field Sample ID

98-22C A

98-22S B

98-220 A

FW-9

98-223 A

98-223 B

96-203A

| Container Type (corresponds to Container Packing List) | Number of Containers Submitted |
|--|--------------------------------|
| DDCB | 1 |
| RSR | 1 |
| TOL | 1 |
| Fe, As, Mn | 1 |

- A NONE pH-7
- B HNO₃ pH-2
- C H₂SO₄ pH-2
- D 1+1 HCl pH-2
- E NaOH pH-12
- F ZnAc/NaOH pH-9
- G MeOH
- H Other (note below)

| Schedule | Matrix Code | Sample Number | Field Sample ID | Cooler ID | Sample Date | Sample Time | Matrix | Number of Containers Submitted | Sample Comments |
|----------|-------------|---------------|-----------------|-----------|-------------|-------------|--------|--------------------------------|-----------------|
| 80 | 01 | 01 | 98-22C A | 7M | 11-1-14 | 0755 | W2231 | 1 | |
| | 02 | 02 | 98-22S B | | | 0820 | W2231 | 1 | |
| | 03 | 03 | 98-220 A | | | 0845 | W2231 | 1 | |
| | 04 | 04 | FW-9 | | | 0910 | W2231 | 1 | |
| | 05 | 05 | 98-223 A | | | 1645 | W2231 | 1 | |
| | 06 | 06 | 98-223 B | | | 1705 | W2231 | 1 | |
| | 07 | 07 | 96-203A | | | 1735 | W2231 | 1 | |

Sampled By (print) R. DAVID MURPHY
 Samples Signature: [Signature]
 Company: [Signature]

How Shipped? Tracking No. Hand Carrier Fed Ex

1. Requisitioned By Date Time
 2. Received By Date Time
 3. Requisitioned By Date Time

Comments: SAMPLE TAGS DATED 1-1-14 SHOULD ACTUALLY BE DATED 11-1-14

Received For Lab Use: [Signature] 11/14/14

SAMPLE RECEIVING / LOG-IN CHECKLIST



| | |
|--|--|
| Client: <u>R. David Mursch</u> | Work Order #: <u>1411066</u> |
| Receipt Record Page/Line #: <u>35-19</u> | Project Chemist: _____ Sample #: _____ |

| | | | | |
|--|--|---------------------|--|---|
| Recorded by (initials/date): <u>LR 11/4/14</u> | <input checked="" type="checkbox"/> Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other | Qty Received: _____ | Thermometer Used: <input type="checkbox"/> IR Gun (#202) <input type="checkbox"/> Digital Thermometer (#54) <input type="checkbox"/> Other (# _____) | <input type="checkbox"/> See Additional Cooler Information Form |
|--|--|---------------------|--|---|

| Cooler # | Time | Cooler # | Time | Cooler # | Time | Cooler # | Time | |
|---|----------------------|--|----------------------------|--|-----------|--|----------------------|--|
| <u>R732</u> | <u>1542</u> | | | | | | | |
| Custody Seals: <input checked="" type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact | | Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact | | Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact | | Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact | | |
| Coolant Type: <input checked="" type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None | | Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None | | Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None | | Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None | | |
| Coolant Location: <u>Dispersed</u> Top / Middle / Bottom | | Coolant Location: Dispersed / Top / Middle / Bottom | | Coolant Location: Dispersed / Top / Middle / Bottom | | Coolant Location: Dispersed / Top / Middle / Bottom | | |
| Temp Blank Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| If Present, Temperature Blank Location is: <input checked="" type="checkbox"/> Representative <input type="checkbox"/> Not Representative | | If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative | | If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative | | If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative | | |
| Observed °C | Correction Factor °C | Actual °C | Observed °C | Correction Factor °C | Actual °C | Observed °C | Correction Factor °C | |
| Temp Blank: <u>1.9</u> | <u>-</u> | <u>1.9</u> | | | | | | |
| Sample 1: <u>4.4</u> | <u>-</u> | <u>4.4</u> | | | | | | |
| Sample 2: <u>2.3</u> | <u>-</u> | <u>2.3</u> | | | | | | |
| Sample 3: <u>2.9</u> | <u>-</u> | <u>2.9</u> | | | | | | |
| 3 Sample Average °C: <u>3.2</u> | | | 3 Sample Average °C: _____ | | | 3 Sample Average °C: _____ | | |
| <input checked="" type="checkbox"/> Cooler ID on COC? | | <input type="checkbox"/> Cooler ID on COC? | | <input type="checkbox"/> Cooler ID on COC? | | <input type="checkbox"/> Cooler ID on COC? | | |
| <input checked="" type="checkbox"/> VOC Trip Blank received? | | <input type="checkbox"/> VOC Trip Blank received? | | <input type="checkbox"/> VOC Trip Blank received? | | <input type="checkbox"/> VOC Trip Blank received? | | |

If any shaded areas checked, complete Sample Receiving Non-Conformance and/or Inventory Form

| | |
|--|--|
| Paperwork Received <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Chain of Custody record(s)? If No, Initiated By _____ <input checked="" type="checkbox"/> Received for Lab Signed/Date/Time? <input type="checkbox"/> Shipping document? <input type="checkbox"/> Other _____ COC Information <input checked="" type="checkbox"/> TriMatrix COC <input type="checkbox"/> Other: <u>149688</u> COC ID Numbers: _____ | Check Sample Preservation N/A Yes No <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Temperature Blank OR average sample temperature, ≥6° C? <input checked="" type="checkbox"/> If either is ≥6° C, was thermal preservation required? If "Yes", Project Chemist Approval Initials: _____ <input checked="" type="checkbox"/> If "Yes" Completed Non Con Cooler - Cont Inventory Form? <input checked="" type="checkbox"/> Completed Sample Preservation Verification Form? <input checked="" type="checkbox"/> Samples chemically preserved correctly? If "No", added orange tag? <input checked="" type="checkbox"/> Received pre-preserved VOC soils? <input type="checkbox"/> MeOH <input type="checkbox"/> Na ₂ SO ₄ |
|--|--|

| | |
|--|---|
| Check COC for Accuracy Yes No <input checked="" type="checkbox"/> Analysis Requested? <input checked="" type="checkbox"/> Sample ID matches COC? <input checked="" type="checkbox"/> Sample Date and Time matches COC? <input checked="" type="checkbox"/> Container type completed on COC? <input checked="" type="checkbox"/> All container types indicated are received? | Check for Short Hold-Time Prep/Analyses <input type="checkbox"/> Bacteriological <input type="checkbox"/> Air Bags <input type="checkbox"/> EnCores / Methanol Pre-Preserved <input type="checkbox"/> Formaldehyde/Aldehyde <input type="checkbox"/> Green-tagged containers <input type="checkbox"/> Yellow/White-tagged 1 L ambers (SV Prep-Lab) |
|--|---|

AFTER HOURS ONLY:

COPIES OF COC TO LAB AREA(S)

NONE RECEIVED

RECEIVED, COCs TO LAB(S)

| Sample Condition Summary N/A Yes No <input checked="" type="checkbox"/> Broken containers/lids? <input checked="" type="checkbox"/> Missing or incomplete labels? <input checked="" type="checkbox"/> Illegible information on labels? <input checked="" type="checkbox"/> Low volume received? <input checked="" type="checkbox"/> Inappropriate or non-TriMatrix containers received? <input checked="" type="checkbox"/> VOC vials / TOX containers have headspace? <input checked="" type="checkbox"/> Extra sample locations / containers not listed on COC? | Notes <input type="checkbox"/> Trip Blank received <input type="checkbox"/> Trip Blank not listed on COC <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">Cooler Received (Date/Time)</th> <th style="width: 33%;">Paperwork Delivered (Date/Time)</th> <th style="width: 33%;">≤1 Hour Goal Met?</th> </tr> <tr> <td><u>11/4/14 0900</u></td> <td><u>11/4/14 1605</u></td> <td style="text-align: center;">Yes / No</td> </tr> </table> | Cooler Received (Date/Time) | Paperwork Delivered (Date/Time) | ≤1 Hour Goal Met? | <u>11/4/14 0900</u> | <u>11/4/14 1605</u> | Yes / No |
|--|--|-----------------------------|---------------------------------|-------------------|---------------------|---------------------|----------|
| Cooler Received (Date/Time) | Paperwork Delivered (Date/Time) | ≤1 Hour Goal Met? | | | | | |
| <u>11/4/14 0900</u> | <u>11/4/14 1605</u> | Yes / No | | | | | |

| | |
|--------------------------------|--|
| Client: <u>R. David Mursch</u> | Work Order #: <u>1411066</u> |
| Receipt Log #: <u>35-19</u> | Completed By (initials/date): <u>[Signature] 11/4/14</u> |
| Project Chemist: _____ | |

| | | | | | | | | | | | |
|---------------------------|----------|--------------------------------|--------------------------------|-----------------------------------|------------------|------------------|--|--|--|--|--|
| COC ID # <u>149688</u> | | | | Adjusted by: _____ Date: _____ | | | | DO NOT ADJUST pH FOR THESE CONTAINER TYPES | | | |
| Container Type | 5 / 23 | 4 | 13 | 3 | 6 | 15 | | | | | |
| Tag Color | Lt. Blue | Blue | Brown | Green | Red | Red Stripe | | | | | |
| Preservative | NaOH | H ₂ SO ₄ | H ₂ SO ₄ | None | HNO ₃ | HNO ₃ | | | | | |
| Expected pH | >12 | <2 | <2 | 6-8 | <2 | <2 | | | | | |
| COC Line #1 | | | | | ✓ | | | | | | |
| COC Line #2 | | | | | ✓ | | | | | | |
| COC Line #3 | | | | | ✓ | | | | | | |
| COC Line #4 | | | | | ✓ | | | | | | |
| COC Line #5 | | | | | ✓ | | | | | | |
| COC Line #6 | | | | | ✓ | | | | | | |
| COC Line #7 | | | | | ✓ | | | | | | |
| COC Line #8 | | | | | ✓ | | | | | | |
| COC Line #9 | | | | | | | | | | | |
| COC Line #10 | | | | | | | | | | | |

| |
|---|
| pH Strip Reagent # |
| <input type="checkbox"/> 4051306 |
| <input checked="" type="checkbox"/> <u>HC421273</u> |

Aqueous Samples: For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box, and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the sample to achieve the correct pH. Add up to, but do not exceed 2x the volume initially added at container prep (see table below for initial volumes used). Add orange pH tag to sample container and record information requested. Record adjusted pH on this form. Do not adjust pH for container types 3, 6, and 15.

Comments

| | | | | | | | | | | | |
|----------------|----------|--------------------------------|--------------------------------|-----------------------------------|------------------|------------------|--|--|--|--|--|
| COC ID # | | | | Adjusted by: _____ Date: _____ | | | | DO NOT ADJUST pH FOR THESE CONTAINER TYPES | | | |
| Container Type | 5 / 23 | 4 | 13 | 3 | 6 | 15 | | | | | |
| Tag Color | Lt. Blue | Blue | Brown | Green | Red | Red Stripe | | | | | |
| Preservative | NaOH | H ₂ SO ₄ | H ₂ SO ₄ | None | HNO ₃ | HNO ₃ | | | | | |
| Expected pH | >12 | <2 | <2 | 6-8 | <2 | <2 | | | | | |
| COC Line #1 | | | | | | | | | | | |
| COC Line #2 | | | | | | | | | | | |
| COC Line #3 | | | | | | | | | | | |
| COC Line #4 | | | | | | | | | | | |
| COC Line #5 | | | | | | | | | | | |
| COC Line #6 | | | | | | | | | | | |
| COC Line #7 | | | | | | | | | | | |
| COC Line #8 | | | | | | | | | | | |
| COC Line #9 | | | | | | | | | | | |
| COC Line #10 | | | | | | | | | | | |

| Container Size (mL) | Original Vol. of Preservative (mL) |
|---------------------|------------------------------------|
| Container Type 5 | NaOH |
| 500 | 2.5 |
| 1000 | 5.0 |
| Container Type 4 | H ₂ SO ₄ |
| 125 | 0.5 |
| 250 | 1.0 |
| 500 | 2.0 |
| 1000 | 4.0 |
| Container Type 13 | H ₂ SO ₄ |
| 500 | 2.5 |

Comments