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FIRST QUARTER 2015 MONITORING REPORT

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Dowagiac, Michigan

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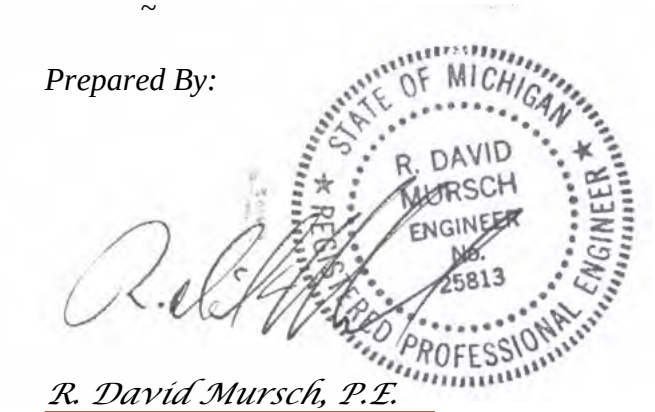

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April 21, 2015

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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 undergoing active remediation 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 (EPA) 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 EPA.

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 2012 testing showed TCE levels in the PRR building's indoor air that exceeded USEPA Regional Screening Levels (RSLs). PRR subsequently began operation of the former SVE system with a reduced airflow rate to serve as a sub-slab depressurization system (SSDS), to control migration of vapors into the building's indoor air space. During this quarter, PRR upgraded the blower and began operating the system as a combined SSDS and remedial SVE system with the intent of increasing the rate of remediation of soil vapors beneath the building.

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 first quarter of 2015 are presented in this report.

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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 groundwater-surface water interface (GSI) compliance monitoring wells for VOC analysis.
- Monitoring SSDS emissions and sub-slab vacuum.
- Sampling indoor air and sub-slab soil vapors 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 GSI Compliance Groundwater Sampling

Groundwater samples were obtained from twenty GSI compliance monitoring wells designated in the CAMP. The analytical data obtained from the GSI wells are shown on Table 1 and Figures 2 through 4.

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 attached data compact disc (CD).

For quality assurance/quality control (QA/QC) purposes, a laboratory-prepared trip blank accompanied each of the VOC sample sets. 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 Sub-Slab Depressurization System Monitoring

The plant began operation of a SSDS in the summer of 2012 and has been monitoring sub-slab vacuum and air emissions related to this system. The SSDS is designed to reduce VOC levels in the sub-slab soil vapors and to control migration of vapors through the floor slab into the building.

The air emissions from the SSDS are monitored for compliance with the MDEQ air permit for this system. 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 SSDS blower. A 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 on the attached data CD.

In conjunction with the air sample analysis, 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 emissions data for this quarter are shown on Table 2.

In addition to the MDEQ-required emissions sampling, PRR measures the differential pressure between the indoor air of the plant and the sub-slab soil vapor using a differential digital manometer on a monthly basis. These measurements are required by the CAMP, and are intended to verify that the system is maintaining a net vacuum beneath the slab so that sub-slab vapors cannot migrate upward into the indoor air of the building. The data for this quarter are shown on Table 3.

2.3 Indoor Air and Sub-Slab Soil Vapor Monitoring

Paired indoor air/sub-slab soil vapor samples are obtained on a quarterly basis for VOC analysis as required by the CAMP. The indoor air samples are 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 vacuum was measured in the field at deployment using an integrated vacuum gauge and recorded on the COC. 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. A safety cap was placed on the canister inlet. The sub-slab soil vapor samples were collected using the same procedures, except that the canister inlets were connected to the VMPs via laboratory-supplied tubing.

The samples were sent to PACE Analytical Services, Inc. in Minneapolis, Minnesota for analysis of chlorinated VOCs using Method TO-15. The data are summarized in Tables 4 and 5 and the TCE data are shown on Figure 5.

During this quarter PRR obtained supplemental paired indoor air and sub-slab soil vapor samples on a two-week basis at the Velthouse location at the request of the EPA, to provide information about the variability of the concentrations at this location. These data are shown on Table 6.

In addition to the Velthouse supplemental data, PRR obtained supplemental sub-slab soil vapor samples at VMPs 12, 15, 17 and 18 in January after shutting down several SVE wells as part of an SVE well cycling program as outlined in the *Modified Sub-Slab Depressurization System Operation and Monitoring Plan* dated January 8, 2015. These data are also included on Table 6.

Table 7 shows a summary of TCE values at the paired indoor air and sub-slab VMPs since September of 2013.

The laboratory reports for these samples are included on the attached data CD.

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2.4 SVE Well Sampling and Analysis

During this quarter PRR converted the SSDS system to a dual-purpose SSDS and remedial SVE system by installing a larger blower, in order to enhance the remediation of the sub-slab soil vapors. To help evaluate the SSDS/SVE system performance and project future TCE removal rates, PRR sampled several of the SVE wells and related VMPs for VOC analysis. These samples were obtained using the syringe method as described above, and the samples were analyzed by Method AM 4.04 by Microseeps Inc.

The data are shown on Table 8 and the analytical reports are included on the attached data CD.

2.5 Operation and Maintenance Documentation

The purge well system is inspected and tested quarterly by Peerless Midwest Inc. The purge well operating data for this quarter are summarized in Table 9.

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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 GSI Compliance Groundwater Monitoring

The GSI compliance monitoring data are summarized on Table 1 and in Figures 2, 3 and 4. Time trend plots for TCE concentrations in the GSI compliance monitoring wells are shown in Figure 6.

Three of the GSI wells sampled this period had TCE concentrations above the GSI value of 200 µg/l: 98-245A, 02-02, and 06-17/2. The VOC concentrations at these wells have been above the GSI for several periods, and the purge wells associated with these wells (PW-5, PW-10 and PW-15) are being operated in accordance with the CAMP.

Purge wells PW-1 and PW-9 have now been shut down for over two years. A review of the time-trend graphs (Figure 6) for the GSI monitoring wells associated with these purge wells indicates that 83-17A, 83-17B, and 83-19A have not shown any rebound; well 83-19B had a rebound of TCE concentrations for the initial few months after being shut down but the TCE levels did not exceed the GSI value, and the TCE concentrations at this well have been declining since May of 2013. Therefore, in accordance with the *Revised Purge Well Shutdown Criteria* (revised PWSC) dated February 2012, purge wells PW-1 and PW-9 may now be permanently abandoned. GSI monitoring wells 83-17A, 83-17B, 83-19A and 83-19B will be converted to MNA monitoring points and will be sampled semi-annually in the future instead of quarterly, in accordance with the PWSC.

Two additional purge wells, PW-8 and PW-12, are close to meeting the revised PWSC conditions for permanent abandonment; these wells were shut down in June of 2013 and the associated GSI monitoring points have been well within the criteria for permanent abandonment of these wells.

3.2 Sub-Slab Depressurization System Monitoring Results

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

During this quarter the air emissions from the system were measured as summarized on Table 2. 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 1,002 cubic feet per minute (cfm). The total VOC emissions rate was calculated from these data as 0.018 pounds per hour (pph), which is well below the limits allowed in the MDEQ air permit for this system.

The vacuum measurements obtained in this quarter are shown on Table 3. In January and February, measurements showed a positive (upward) or null pressure gradient at four VMPs, particularly at VMP-1 and VMP-2. This was partly due to the shutdown of the older (2012) SSDS blower during the installation of the upgraded unit, and partly due to an operational error in which the makeup air valve for the new blower was left open for several weeks.

In addition, a large opening caused by rusting was found in the SVE vacuum pipeline at SVE-9. This opening resulted in air being withdrawn from the room above the slab at this location, and this caused the upward pressure gradient noted at VMP-1 and 2. However, it is likely that air pulled up

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through the slab due to this opening was captured directly into the SVE pipeline through the opening and discharged through the SSDS stack, without accumulating in the building airspace.
Vacuum readings obtained on April 6, after the makeup air valve and rusted SVE pipe opening issues were identified and corrected, showed that the system continues to maintain a net vacuum beneath the building's floor slab.

3.3 Indoor Air and Sub-Slab Soil Vapor Monitoring Results

The indoor air and sub-slab soil vapor were sampled in this quarter and the analytical data are summarized on Tables 4 and 5 respectively. For reference these tables include Regional Screening Levels (RSL) published by the USEPA in November, 2012 for indoor air and sub-slab soil vapors at industrial sites.

The concentration of TCE in indoor air (Table 4) was below the RSL at all sample locations.

In the sub-slab soil vapor samples (Table 5), the RSL for TCE (293 $\mu g/m^3$) was exceeded at two of the eight monitored VMPs. No other analyzed VOCs were reported above the RSLs in any sample. The data are consistent with historical patterns.

Supplemental indoor air and sub-slab soil vapor samples were analyzed at the Velthouse/VMP-13 location on a bi-weekly basis at the request of the USEPA. The data (Table 6) show consistent values for TCE and other VOCs during this period. Supplemental sub-slab samples were analyzed at VMP-12, 15, 17 and 18 to check for rebound in the sub-slab soil vapors due to shutting down several SVE wells as outlined in the *Modified Sub-Slab Depressurization System Operation and Monitoring Plan* dated January 8, 2015. These data (Table 6) show a rebound at VMP-18 with a TCE concentration of 3,010 $\mu g/m^3$. However, a subsequent sample at VMP-18 for the regular quarterly event in March showed all VOCs returned to the prior range of values before shutting down the SVE wells in this vicinity. The high values obtained in January at VMP-18 may be due to a change in airflow direction due to modification of the SVE well operation.

Table 8 includes a summary of TCE concentrations at the indoor air and paired sub-slab VMPs since September 2013. These data show no TCE concentrations above the RSL during this eighteen-month period. Further, during this period only three individual indoor air results have been above 4.4 $\mu g/m^3$, which is one-half of the indoor air RSL. The sub-slab TCE values are more variable but show a generally decreasing trend with few locations having consistent TCE concentrations above the sub-slab RSL.

3.4 SVE Well Sampling and Analysis

During this quarter PRR initiated an effort to further evaluate the SSDS/SVE system aimed at identifying ways to enhance the system's performance and ultimately reduce the time required to achieve closure for indoor air issues. As part of these efforts, PRR sampled the airstream at the active SVE wells in the building and also sampled sub-slab soil vapor at three VMPs that are not regularly sampled as part of the indoor air monitoring. The data are presented on Table 8.

These data generally show higher VOC concentrations in the SVE wells and older VMPs than are measured at the shallow VMPs. This is because the SVE wells and older VMPs are set at least 10 feet below the slab, while the VMPs that are paired with the indoor air monitoring points are set directly below the slab. As the SVE wells draw the sub-slab vapors down into their screens, they act to pull VOC vapors down from under the slab, and to keep vapors from migrating up to the slab.

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The SVE well data can be compared to historical data for these same SVE wells to give a sense of how effectively the SSDS/SVE wells are removing TCE and other VOCs from the subsurface. This evaluation has just been initiated and PRR plans additional sampling in the next few quarters to provide further insight. However, the table below shows an initial comparison of the TCE concentrations at SVE wells in 2008/2013 versus the most recent, 2015 data:

TRICHLOROETHENE IN SVE WELL AIRSTREAMS, JUNE 2008 TO MARCH 2015

micrograms per cubic meter

LOCATION	June 2008	April, May and June 2013 (Ave)	February/March 2015
SVE-2	1,557	--	591
SVE-3	14,499	--	8,592
SVE-4	59,070	--	11,814
SVE-5	10,203	--	1,718
SVE-6	12,888	--	5,316
SVE-7	4,457	2,954	6,444
SVE-8	17,184	3,920	1,289
SVE-9	6,444	--	1,504
SVE-A	2,792	3,974	2,094
SVE-H	1,128	--	859
SVE-K	6,981	--	913
SVE-M	3,007	5,370	1,772
SVE-O	--	591	247
98-226A	75,180	--	13,962
Average	16,800	--	2,746

Since the SVE system was not operated from 2008 until it was re-configured as an SSDS in 2012, these data suggest that the SSDS system reduced the TCE levels in the soil by roughly 80% in a period of two and a half years. In this quarter PRR installed a larger blower, effectively doubling the SVE airflow rate, so this rate of reduction should increase. Additional studies are planned before definitive conclusions may be drawn and PRR is preparing a work plan for studies; the work plan will be submitted to the USEPA for comment.

3.5 Operation and Maintenance

The purge well operational data are summarized on Table 9. The pump and motor at purge well PW-5 failed in this quarter and are being replaced. No other significant operational or maintenance issues were reported for this quarter.

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4.0 CONCLUSIONS

This report presents the results of the regular quarterly monitoring at the PRR site for the first quarter of 2015.

The data demonstrate that VOC concentrations in the groundwater at the designated GSI compliance monitoring wells are below the GSI at all but three of the GSI monitoring wells. All of these are associated with purge wells that are still in operation. Two purge wells that have been shut down for over two years, PW-1 and PW-9, meet the criteria for permanent abandonment as outlined in the PWSC; GSI monitoring wells associated with these two purge wells will be converted to MNA monitoring wells.

The SSDS monitoring continues to demonstrate that the SSDS is operating as intended; the system is reducing VOC concentrations in the sub-slab soil vapor and is generally maintaining a net vacuum beneath the building's floor slab, except for a short period when the SSDS blower was being replaced and also when a leak developed in one of the SVE wells. Emissions from the SSDS are in compliance with the system's air permit.

Monitoring of the indoor air and sub-slab soil vapors demonstrate that the TCE levels in the building's indoor air were below the RSL at all locations. PRR continues to implement contingency measures, including improved ventilation, in the building.

During this quarter PRR installed a larger blower to convert the SSDS to a combined SSDS/SVE remedial system. PRR also began cycling the SVE wells in an effort to change air circulation patterns in the soil, which should increase the effectiveness of the SSDS/SVE system at remediating the VOC levels in the soil. PRR plans to continue the cycling as outlined in the *Modified Sub-Slab Depressurization System Operation and Monitoring Plan* dated January 8, 2015.

PRR has initiated an evaluation of the overall remedial effectiveness of the SSDS/SVE system and some supplemental data related to this effort was collected during this period. Additional studies are planned; however the initial sampling results suggest that the system is being very effective at reducing VOC levels in the soil gas.

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TABLE 1: SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER - MARCH 2015

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	49	< 1	36	1.8	2.4	< 1	< 1
83-19A	15	8.0	< 1	< 1	< 1	< 1	< 1	< 1
83-19B	41	120	< 1	39	1.5	8.4	< 1	< 1
83-21A	21	2.9	< 1	< 1	< 1	< 1	< 1	< 1
83-21B	47	51	< 1	11	2.4	< 1	< 1	< 1
83-28A	20	2.6	< 1	39	5.9	< 1	< 1	< 1
83-28B	53	< 1	< 1	6.5	< 1	5.6	< 1	< 1
13-224A	24	8.1	< 1	< 1	< 1	< 1	< 1	< 1
98-224B	42	150	< 1	16	2.6	< 1	< 1	< 1
98-245A	33	**260**	< 2.5	16	3.9	< 2.5	< 2.5	< 2.5
02-02	32	**230**	5.3	8.2	< 2	41	< 2	< 2
02-03	64	1.4	< 1	< 1	< 1	< 1	< 1	< 1
02-04	42	94	< 1	17	3.2	< 1	< 1	< 1
05-15	25	3.0	< 1	1.1	< 1	< 1	< 1	< 1
05-16	29	7.3	< 1	< 1	< 1	< 1	< 1	< 1
06-17 / 1	30	56	1.2	1.6	< 1	< 1	< 1	< 1
06-17 / 2	50	**520**	61	26	< 5	< 5	< 5	< 5
06-20 / 1	15	< 1	< 1	< 1	< 1	< 1	< 1	< 1
06-20 / 2	30	< 1	< 1	< 1	< 1	< 1	< 1	< 1

NOTES:

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

< = Less than

Bold = Exceeds GSI criterion

TABLE 2: EMISSIONS FROM SUB-SLAB DEPRESSURIZATION SYSTEM

	March 18, 2015
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	4.7
Total VOCs, pcf	2.94E-07
Air velocity, fpm	3,458
Pipe area, square feet	0.31
Air flow rate, acfm	1086
Temperature, °C	50
Air flow rate, cfm	1002
VOC emission rate, pph	0.018

Notes:

mg/m^3 = 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

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TABLE 3: SUB-SLAB VACUUM MEASUREMENTS

	January 20, 2015	February 26, 2015	April 6, 2015
VMP-1	.0.14	0.08	-0.25
VMP-2	0.09	0.08	-0.29
VMP-3	--	--	--
VMP-10	0.02	-0.01	-0.01
VMP-11	-0.01	-0.01	-0.01
VMP-12	-0.03	-0.02	-0.01
VMP-13	-0.02	-0.01	-0.02
VMP-14	-0.02	-0.01	-0.02
VMP-15	-0.03	0.00	-0.02
VMP-16	0.02	0.00	-0.07
VMP-17	-0.02	-0.01	-0.01
VMP-18	0.04	-0.01	-0.09

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

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TABLE 4: QUARTERLY INDOOR AIR ANALYTICAL DATA

Compound	Indoor Air Screening Level*	PRR Office	JMT	Velthouse Antiques	Michigan Precision	Lower Level - NE
Chloroethane	44,000	<0.87	<0.78	<0.84	<0.80	<0.80
1,1-Dichloroethane	77	<1.3	<1.2	<1.3	<1.2	<1.2
cis-1,2-Dichloroethene	260	<3.2	<2.9	<3.1	<3.0	<3.0
t-1,2-Dichloroethene	260	<1.3	<1.2	<1.3	<1.2	<1.2
Tetrachloroethene	180	**2.9**	<0.99	**12.6**	**5.4**	**16.2**
1,1,1-Trichloroethane	22,000	<1.1	<1.0	<1.1	<1.0	<1.0
Trichloroethene	8.8	<0.88	<0.79	**2.8**	<0.81	<0.81
Vinyl Chloride	28	<0.42	<0.37	<0.40	<0.39	<0.39

Compound	Indoor Air Screening Level*	South Rec. Park	Quality Trucking	North Rec. Park 1	North Rec. Park 2	Lower Level - SW
Chloroethane	44,000	<0.75	<0.84	<0.80	<0.80	<0.80
1,1-Dichloroethane	77	<1.1	<1.3	<1.2	<1.2	<1.2
cis-1,2-Dichloroethene	260	<2.8	<3.1	<3.0	<3.0	<3.0
t-1,2-Dichloroethene	260	<1.1	<1.3	<1.2	<1.2	<1.2
Tetrachloroethene	180	**35.1**	**118**	**27.2**	**34.9**	**34.7**
1,1,1-Trichloroethane	22,000	<0.97	<1.1	<1.0	<1.0	<1.0
Trichloroethene	8.8	**1.6**	**1.4**	**1.3**	**1.3**	**1.7**
Vinyl Chloride	28	<0.36	<0.40	<0.39	<0.39	<0.39

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.

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TABLE 5: QUARTERLY 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	<0.84	<0.72	<0.84	<0.87
1,1-Dichloroethane	2,567	<1.3	<1.1	<1.3	<1.3
cis-1,2-Dichloroethene	8,667	<3.1	<2.7	<3.1	<3.2
t-1,2-Dichloroethene	8,667	<1.3	<1.1	<1.3	<1.3
Tetrachloroethene	6,000	**14.5**	**4.1**	**21.2**	**29.9**
1,1,1-Trichloroethane	733,333	**15.0**	<0.94	**13.5**	<1.1
Trichloroethene	293	**368**	**6.6**	**340**	**4.9**
Vinyl Chloride	933	<0.40	<0.35	<0.40	<0.42

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	<0.78	<0.72	<0.80	<0.75
1,1-Dichloroethane	2,567	<1.2	<1.1	<1.2	<1.1
cis-1,2-Dichloroethene	8,667	<2.9	<2.7	<3.0	<2.8
t-1,2-Dichloroethene	8,667	<1.2	<1.1	<1.2	<1.1
Tetrachloroethene	6,000	**36.8**	**43.3**	**23.1**	**35.6**
1,1,1-Trichloroethane	733,333	<1.0	<0.94	**4.7**	<0.97
Trichloroethene	293	**57.8**	**1.5**	**46.2**	**1.6**
Vinyl Chloride	933	<0.37	<0.35	<0.39	<0.36

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.

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TABLE 6: SUPPLEMENTAL INDOOR AIR AND SUB-SLAB SOIL VAPOR ANALYTICAL DATA

BI-WEEKLY INDOOR AIR SAMPLES AT VELTHOUSE ANTIQUES:

Compound	Indoor Air Screening Level*	Velthouse Antiques 1/07/15	Velthouse Antiques 1/21/15	Velthouse Antiques 2/04/15	Velthouse Antiques 2/18/15	Velthouse Antiques 3/03/15
Chloroethane	44,000	<0.80	<0.84	<0.80	<0.80	<2.2
1,1-Dichloroethane	77	<1.2	<1.3	<1.2	<1.2	<1.3
cis-1,2-Dichloroethene	260	<3.0	<3.1	<3.0	<3.0	<3.2
t-1,2-Dichloroethene	260	<1.2	<1.3	<1.2	<1.2	<1.3
Tetrachloroethene	180	**2.2**	**2.8**	**1.3**	**1.5**	**3.4**
1,1,1-Trichloroethane	22,000	<1.0	<1.1	<1.0	<1.0	<1.1
Trichloroethene	8.8	**2.9**	**6.7**	**1.7**	**3.9**	**3.8**
Vinyl Chloride	28	<0.39	<0.40	<0.39	<0.39	<0.84

BI-WEEKLY SUB-SLAB SOIL VAPOR SAMPLES AT VMP-13:

Compound	Sub-Slab Soil Vapor Screening Level**	VMP-13 1/07/15	VMP-13 1/21/15	VMP-13 2/04/15	VMP-13 2/18/15	VMP-13 3/03/15
Chloroethane	1,466,667	<0.75	<0.80	<0.75	<1.6	<1.9
1,1-Dichloroethane	2,567	<1.1	<1.2	<1.2	<2.4	<1.2
cis-1,2-Dichloroethene	8,667	<2.8	<3.0	<2.8	<5.8	<2.9
t-1,2-Dichloroethene	8,667	<1.1	<1.2	<1.1	<2.3	<1.2
Tetrachloroethene	6,000	**4.6**	**3.4**	**1.7**	**4.1**	**4.1**
1,1,1-Trichloroethane	733,333	**57.4**	**11.4**	**5.8**	**78.5**	**86.0**
Trichloroethene	293	**1,600**	**258**	**229**	**626**	**1,010**
Vinyl Chloride	933	<0.36	<0.39	<0.36	<0.75	<0.75

REBOUND CHECK SAMPLES AT DESIGNATED VMPS:

Compound	Sub-Slab Soil Vapor Screening Level**	VMP-12 1/21/15	VMP-15 1/21/15	VMP-17 1/21/15	VMP-18 1/21/15
Chloroethane	0	<0.80	<0.75	<0.80	<0.78
1,1-Dichloroethane	0	<1.2	<1.1	<1.2	**19.3**
cis-1,2-Dichloroethene	8,667	<3.0	<2.8	<3.0	**202**
t-1,2-Dichloroethene	0	<1.2	<1.1	<1.2	**6.2**
Tetrachloroethene	6,000	<2.1	**13.7**	**23.1**	**52.6**
1,1,1-Trichloroethane	0	<1.0	**1.0**	**3.6**	**94.8**
Trichloroethene	293	**7.2**	**83.8**	**43.8**	**3,010**
Vinyl Chloride	0	<0.39	<0.36	<0.39	<0.37

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 screeni
< - 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.
**USEPA Indoor Air Screening Level divided by USEPA-recommended attenuation factor of 0.03.

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TABLE 7: SUMMARY OF TRICHLOROETHENE DATA FOR INDOOR AIR AND SUB-SLAB SOIL VAPOR IN PRR BUILDING

	Sep-13	Oct-13	Mar-14	Jun-14	Sep-14	Nov-14	01/07/15	01/21/15	02/04/15	02/18/15	03/03/15	03/16/15
PRR Office	3.7	0.83	<0.96	1.8	3.0	<1.6	--	--	--	--	--	<0.88
VMP-11	796	578	117	370	300	115	--	--	--	--	--	368
JMT	6.9	<0.85	4.1	1.7	4.1	<1.6	--	--	--	--	--	<0.79
VMP-12	66.5	0.81	<0.79	4.3	33.8	<0.35	--	7.2	--	--	--	6.6
VH Antiques	3.1	1.5	4.1	<0.92	2.9	5.2	2.9	6.7	1.7	3.9	3.8	2.8
VMP-13	6,160	990	1,920	533	2,400	897	1,600	258	229	626	1,010	340
MP	1.8	2.9	<0.74	<0.89	3.3	2.3	--	--	--	--	--	<0.81
VMP-14	1,510	342	132	82.3	731	94.9	--	--	--	--	--	4.9
SREC	<1.2	<0.74	<0.74	<0.89	2.6	<0.69	--	--	--	--	--	1.6
VMP-15	1,450	156	58.7	67.8	767	105	--	83.8	--			57.9
QT	<1.6	<0.79	<0.79	2.4	1.8	<0.82	--	--	--	--	--	1.4
VMP-16	1,280	--	2,240	452	5,020	1,850	--	--	--	--	--	1.5
NREC-1	<1.0	<0.76	2.5	1.4	2.5	1.0	--	--	--	--	--	1.3
VMP-17	209	1.9	45.4	234	258	42.5	--	43.8	--			46.2
NREC-2	2.4	<0.74	0.82	<1.0	<1.8	1.0	--	--	--	--	--	1.3
VMP-18	2,180	15,300	<0.74	<0.89	3.1	<0.74	--	3,010	--	--	--	1.6
LL-NE	<3.2	0.93	1.3	<0.85	<1.8	<0.82	--	--	--	--	--	<0.81
LL-SW	--	1.6	<0.76	1.2	<1.7	0.90	--	--	--	--	--	1.7

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 8: SOIL VAPOR ANALYSIS AT SVE WELLS

Compound	Sub-Slab Soil Vapor Screening Level*	SVE-A	SVE-H	SVE-K	SVE-M	SVE-O	98-226A
cis-1,2-Dichloroethene	8667	**792**	<28	<28	**2,020**	<28	**475**
Tetrachloroethene	6000	**16.3**	**95**	**19.7J**	**14.9**	<7	**22**
1,1,1-Trichloroethane	733,333	**114**	**50**	**179.9**	**27**	<7	**65**
Trichloroethene	293	**2,094**	**859**	**912.9**	**1,772**	**247**	**13,962**
Vinyl Chloride	933	<250	<242	**383**	**459J**	<242	<242

Compound	Sub-Slab Soil Vapor Screening Level*	SVE-2	SVE-3	SVE-4	SVE-5	SVE-6	SVE-7
cis-1,2-Dichloroethene	8,667	<28	**436**	**5,148**	<28	**3,089**	**594**
Tetrachloroethene	6,000	**101.7**	**14**	**26**	**7.5J**	**29**	**75**
1,1,1-Trichloroethane	733,333	**23.4J**	**35**	**29**	<5.45	**120**	**1,036**
Trichloroethene	293	**591**	**8,592**	**11,814**	**1,718**	**5,316**	**6,444**
Vinyl Chloride	933	**357J**	**1,734J**	<242	**255J**	**255J**	**255J**

Compound	Sub-Slab Soil Vapor Screening Level**	SVE-8	SVE-9	VMP-1	VMP-2	VMP-10
cis-1,2-Dichloroethene	8,667	**594**	**289**	<28	<28	<28
Tetrachloroethene	6,000	**8**	**12**	**18J**	**12J**	**35.9J**
1,1,1-Trichloroethane	733,333	**104**	**71**	<5.45	**22J**	**872**
Trichloroethene	293	**1,289**	**1,504**	**59**	**499**	**1,181**
Vinyl Chloride	933	**357J**	<242	**561J**	**332J**	**332J**

Notes:
All data presented in micrograms per cubic meter
Compounds analyzed by Method AM4.02 Vapors.
Bold indicates detection above reporting limit: yellow highlighted results exceed industrial sub-slab screening levels.
< - Not detected at or above the reported detection limit.
J - Estimated value below practical quantitation 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 attenuation factor of 0.03

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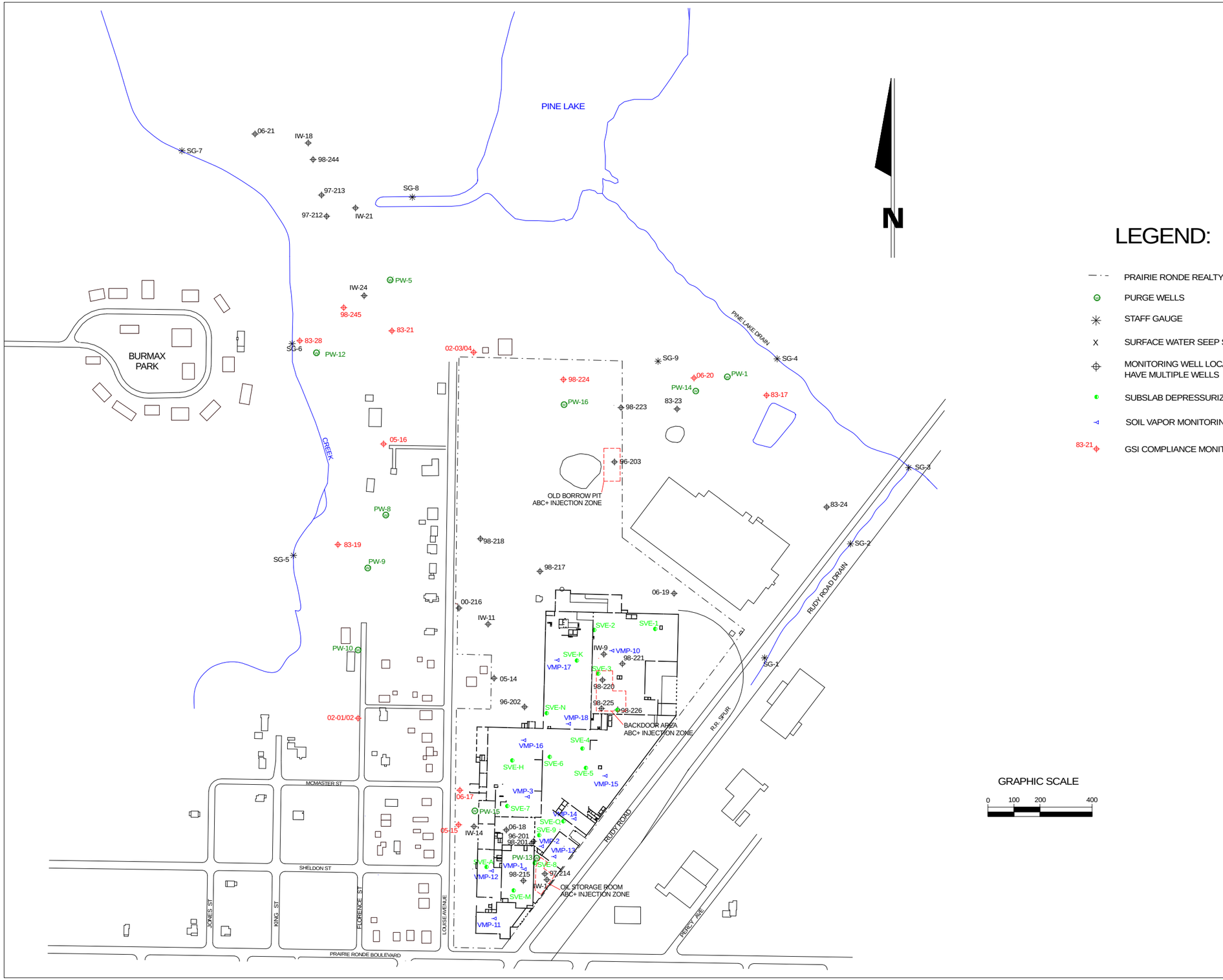
TABLE 9: PURGE WELL OPERATION STATUS

Purge Well	Current Status	Initial Flowmeter Reading	February 6, 2015	
		November 17, 2015	Flow Rate, GPM	Total Gallons (x 1,000)
PW-1	Shut Down January 2013; TBA	--	--	--
PW-5	Operating	124,245	(1)	188,434
PW-8	Shut Down June 2013	--	--	--
PW-9	Shut Down October 2012; TBA	--	--	--
PW-10	Re-started April 2014	63,549	65	71,706
PW-12	Shut Down June 2013	--	--	--
PW-13	Shut Down September 2008; TBA	--	--	--
PW-14	Shut Down May 2014	--	--	--
PW-15	Re-started November 2014	302,498	265	335,660
PW-16	Re-started November 2014	--	140	276,657
500GPM	Shut Down January 2008; TBA	--	--	--
20 GPM	Shut Down September 2008; TBA	--	--	--
	TOTALS	--	470	872,457

-- = Not measured or not applicable
GPM = Gallons per minute
(1) = Pump and motor need to be replaced
TBA = To be abandoned

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT



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

GRAPHIC SCALE

0 100 200 400

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FIRST QUARTER 2015
MONITORING REPORT

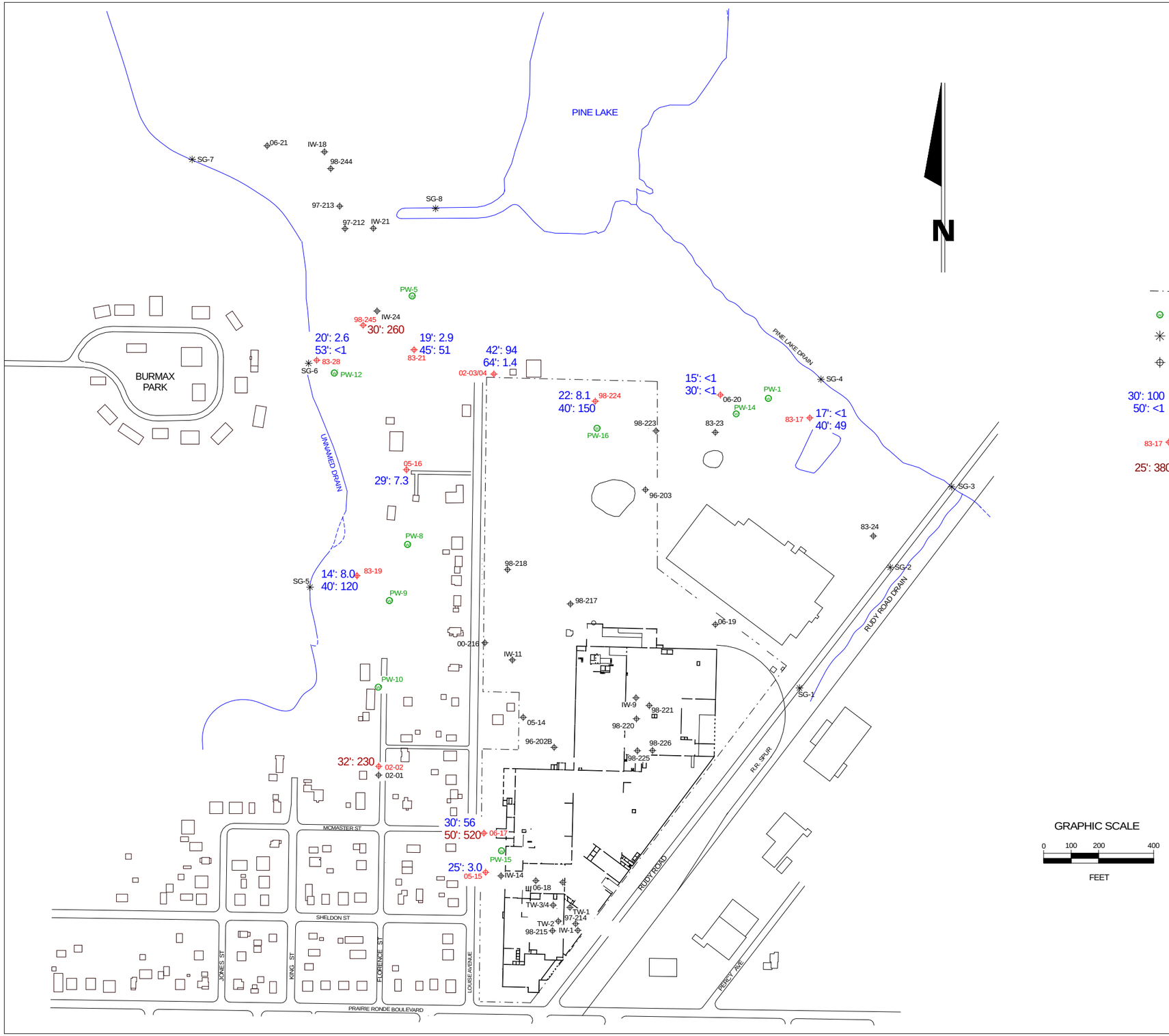
FOR:

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

Figure 1:

SITE PLAN

US EPA ARCHIVE DOCUMENT



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)

GRAPHIC SCALE

0 100 200 400

FEET

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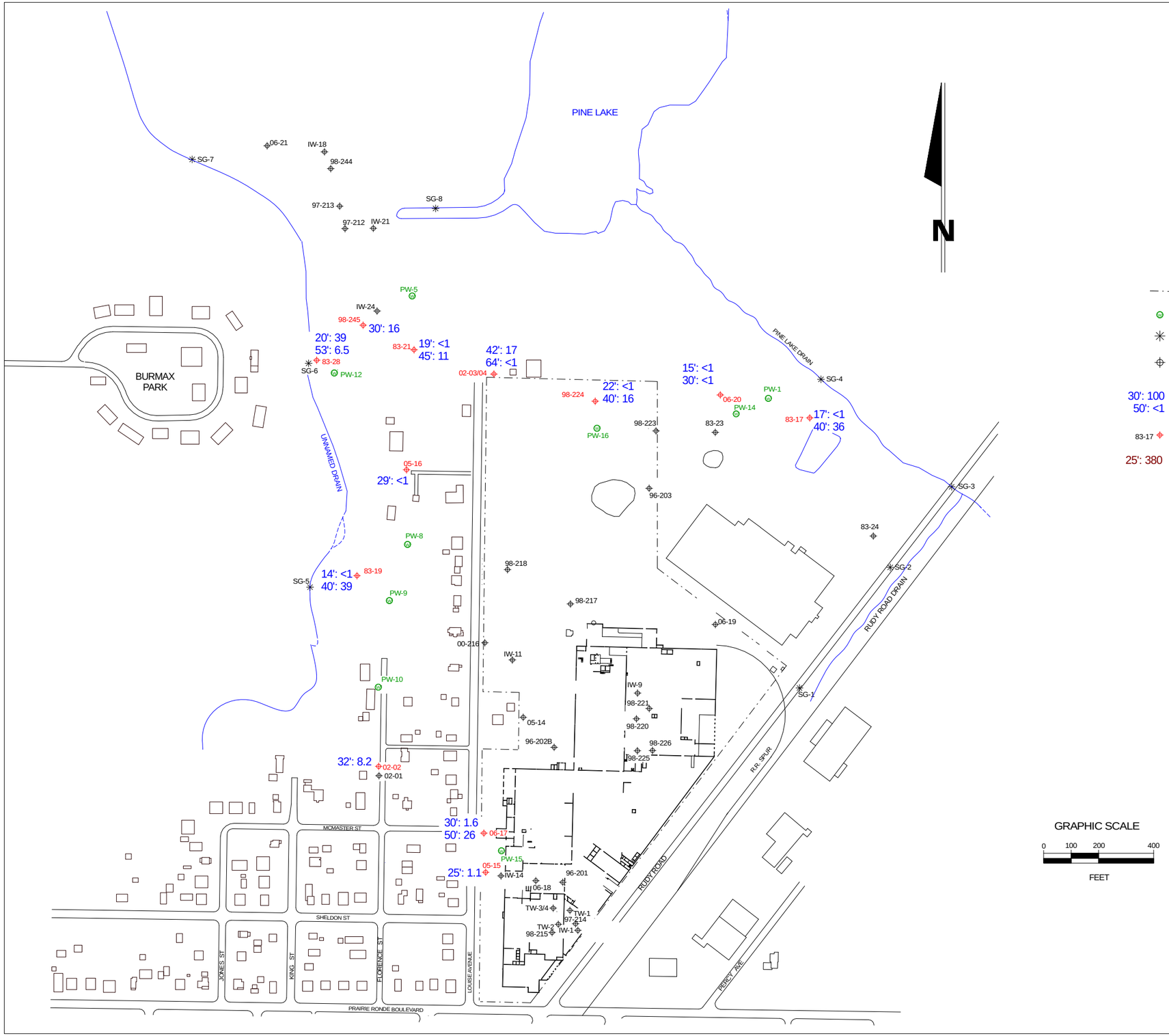
Figure 2:

TRICHLOROETHENE IN WELLS SCREENED ABOVE THE AQUITARD LAYER

US EPA ARCHIVE DOCUMENT



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)

GRAPHIC SCALE

0 100 200 400

FEET

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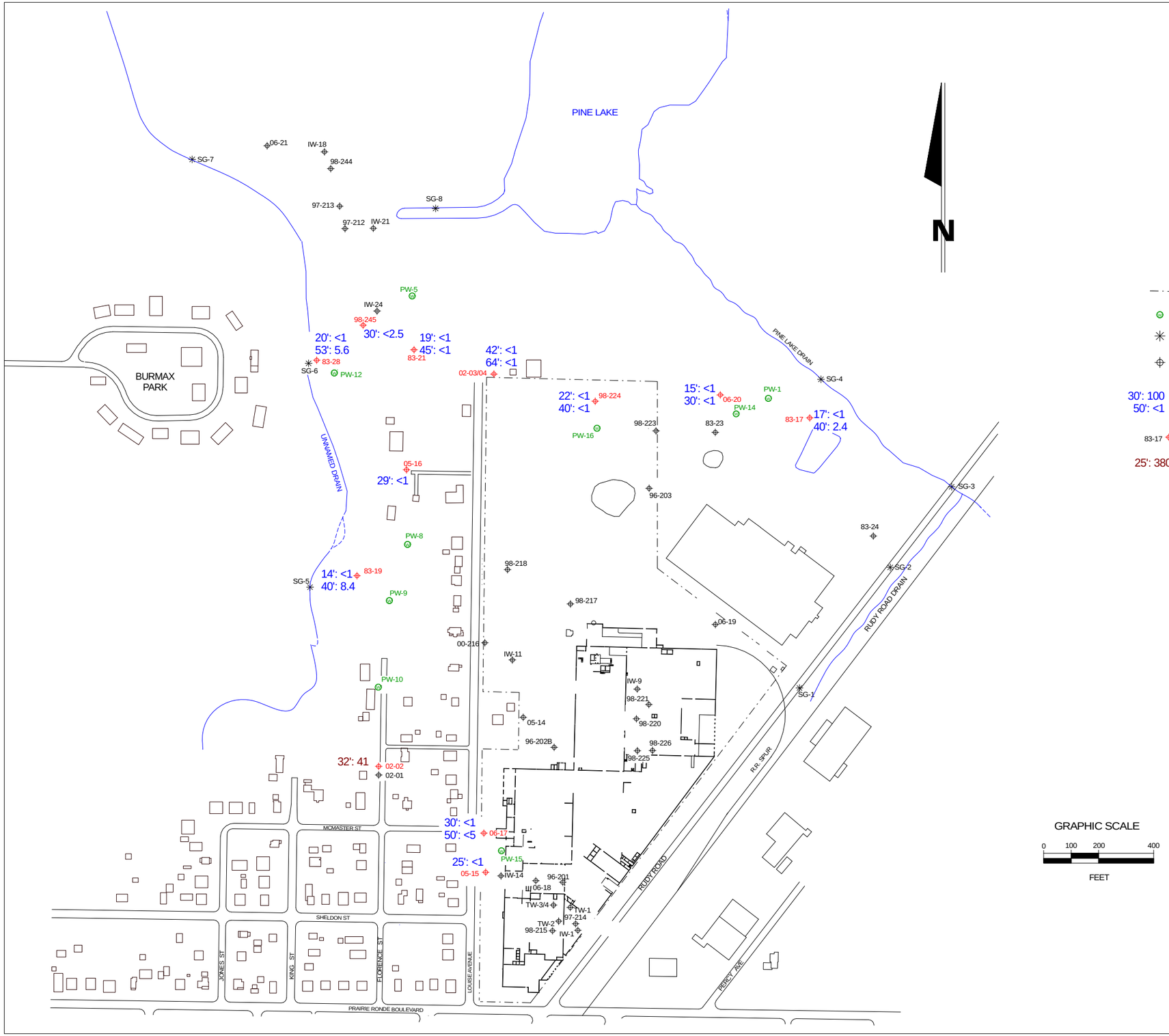
Figure 3:

CIS-1,2-DICHLOROETHENE IN WELLS SCREENED ABOVE THE AQUITARD LAYER

US EPA ARCHIVE DOCUMENT



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)

GRAPHIC SCALE

0 100 200 400

FEET

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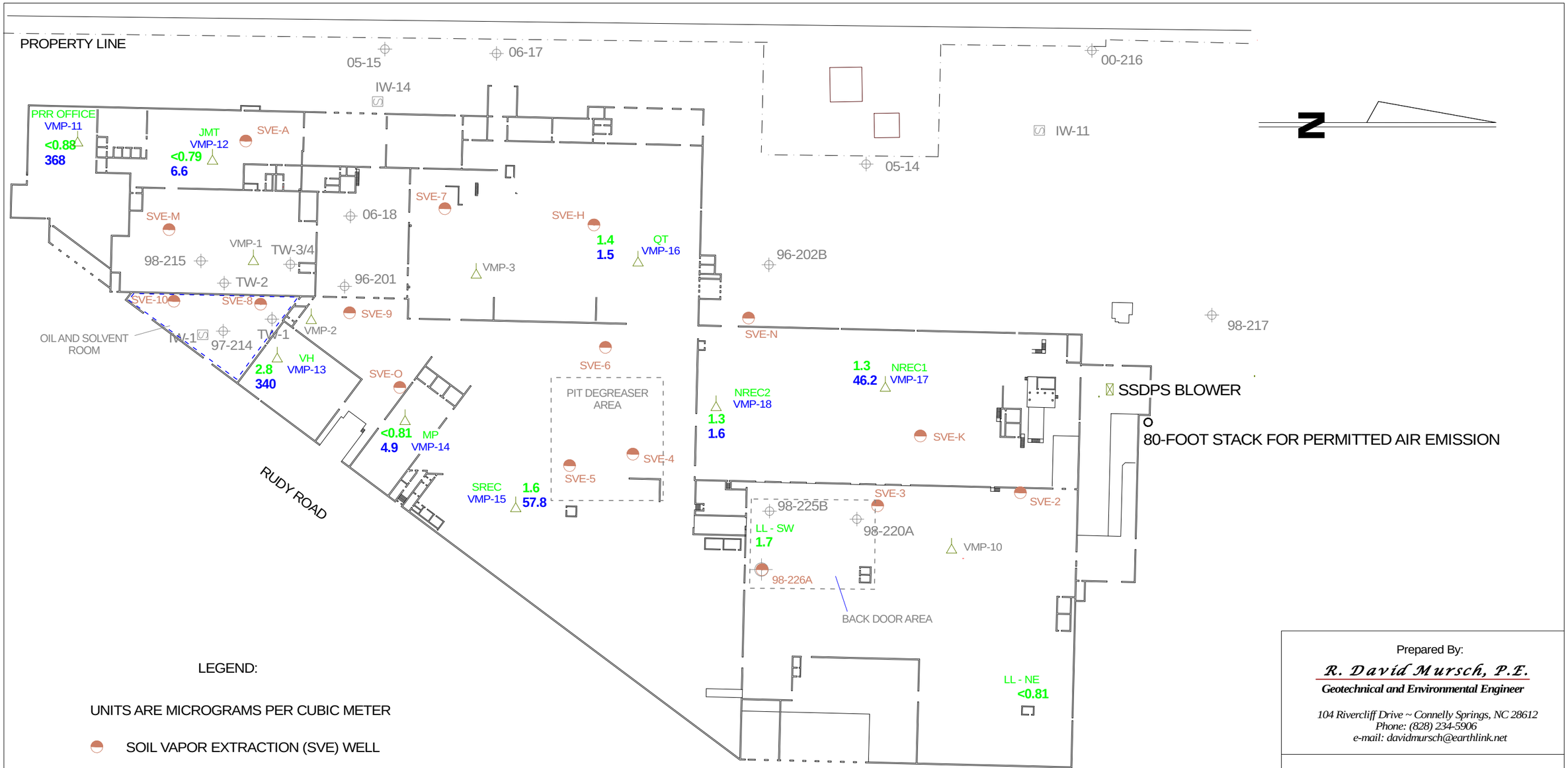
Figure 4:

VINYL CHLORIDE IN WELLS SCREENED ABOVE THE AQUITARD LAYER

US EPA ARCHIVE DOCUMENT



LEGEND:

UNITS ARE MICROGRAMS PER CUBIC METER

- SOIL VAPOR EXTRACTION (SVE) WELL
- SUB-SLAB VACUUM MONITORING POINT (VMP)
- GROUNDWATER MONITORING WELL
- SOURCE AREA OF TCE RELEASE TO SOIL AND GROUNDWATER
- 1.5 TRICHLOROETHENE IN INDOOR AIR
- 2.1 TRICHLOROETHENE IN SUBSLAB SOIL VAPOR

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PRAIRIE RONDE REALTY COMPANY

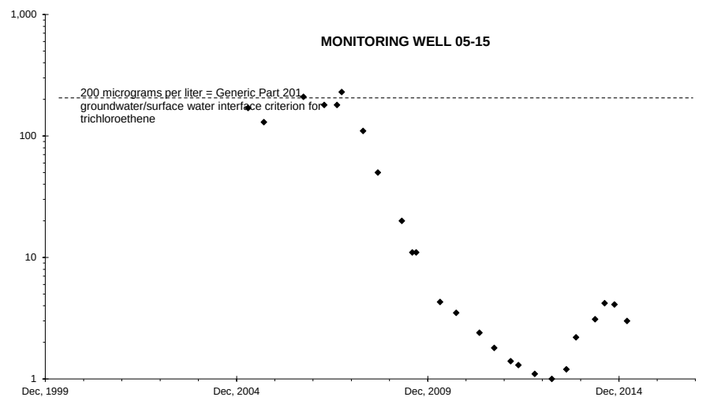
415 East Prairie Ronde, Dowagiac, Michigan 49047

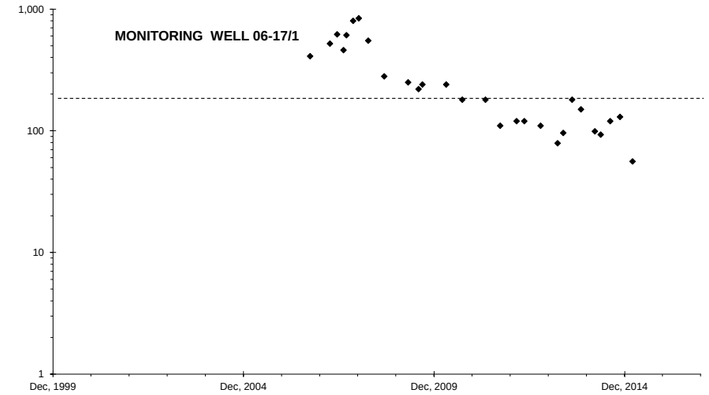
Figure 5:

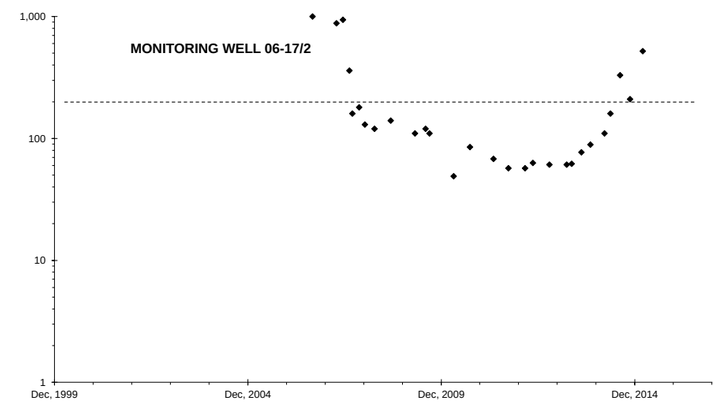
TRICHLOROETHENE IN INDOOR AIR AND SUB-SLAB SOIL VAPOR

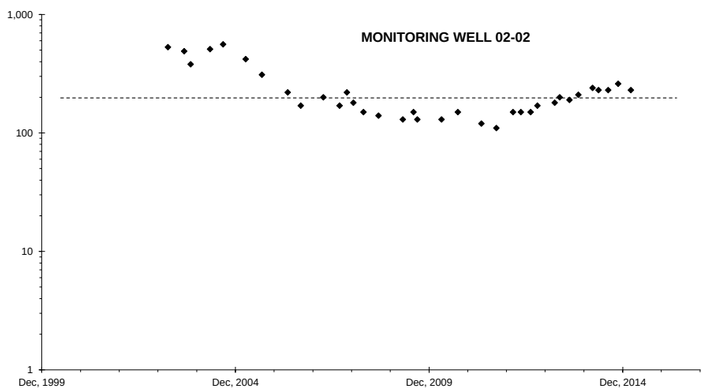
FIGURE 6: TRICHLOROETHENE CONCENTRATION TIME TRENDS IN GSI COMPLIANCE MONITORING WELLS (PAGE 1 OF 2)

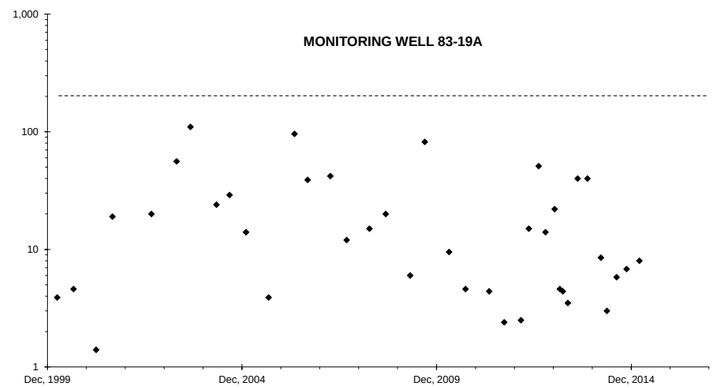
TRICHLOROETHENE CONCENTRATION, MICROGRAMS PER LITER

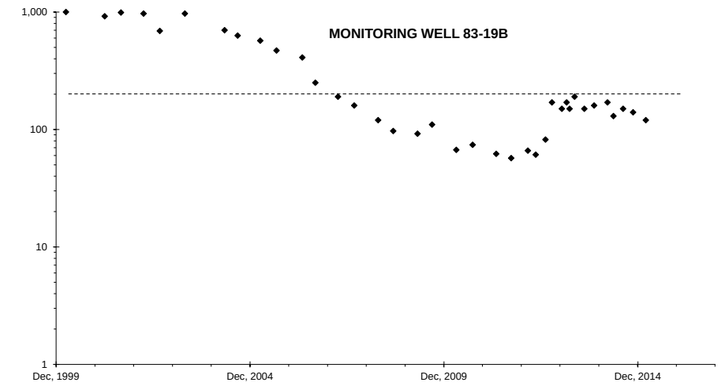


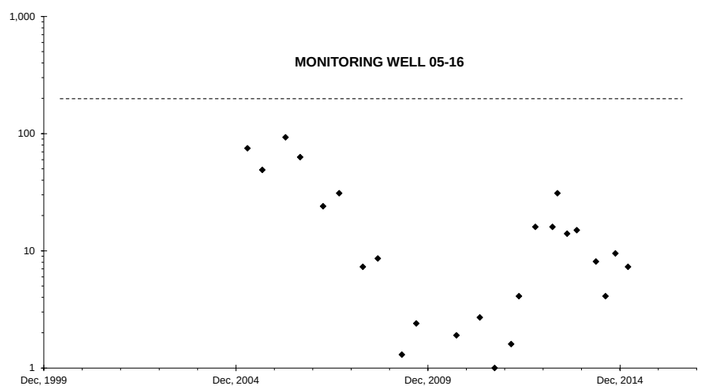


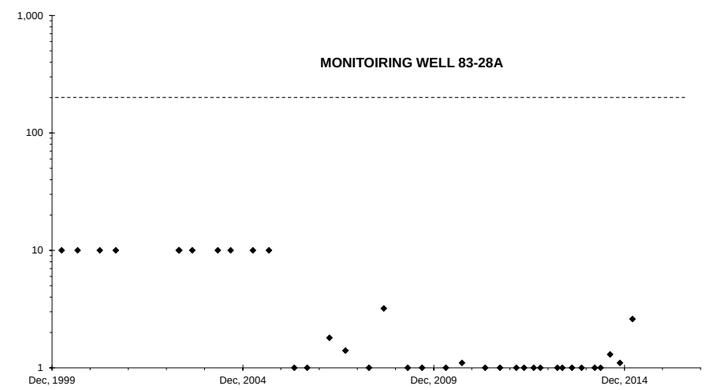












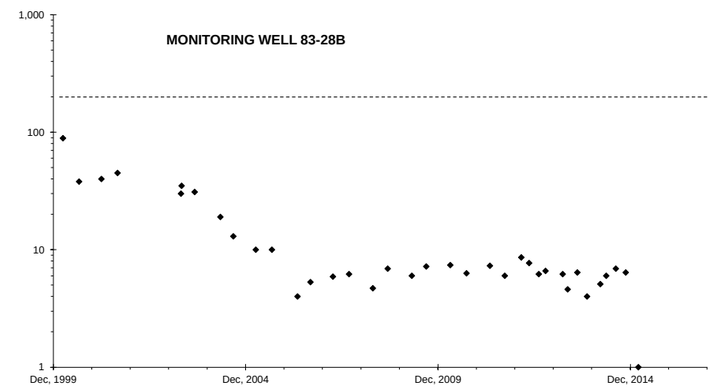
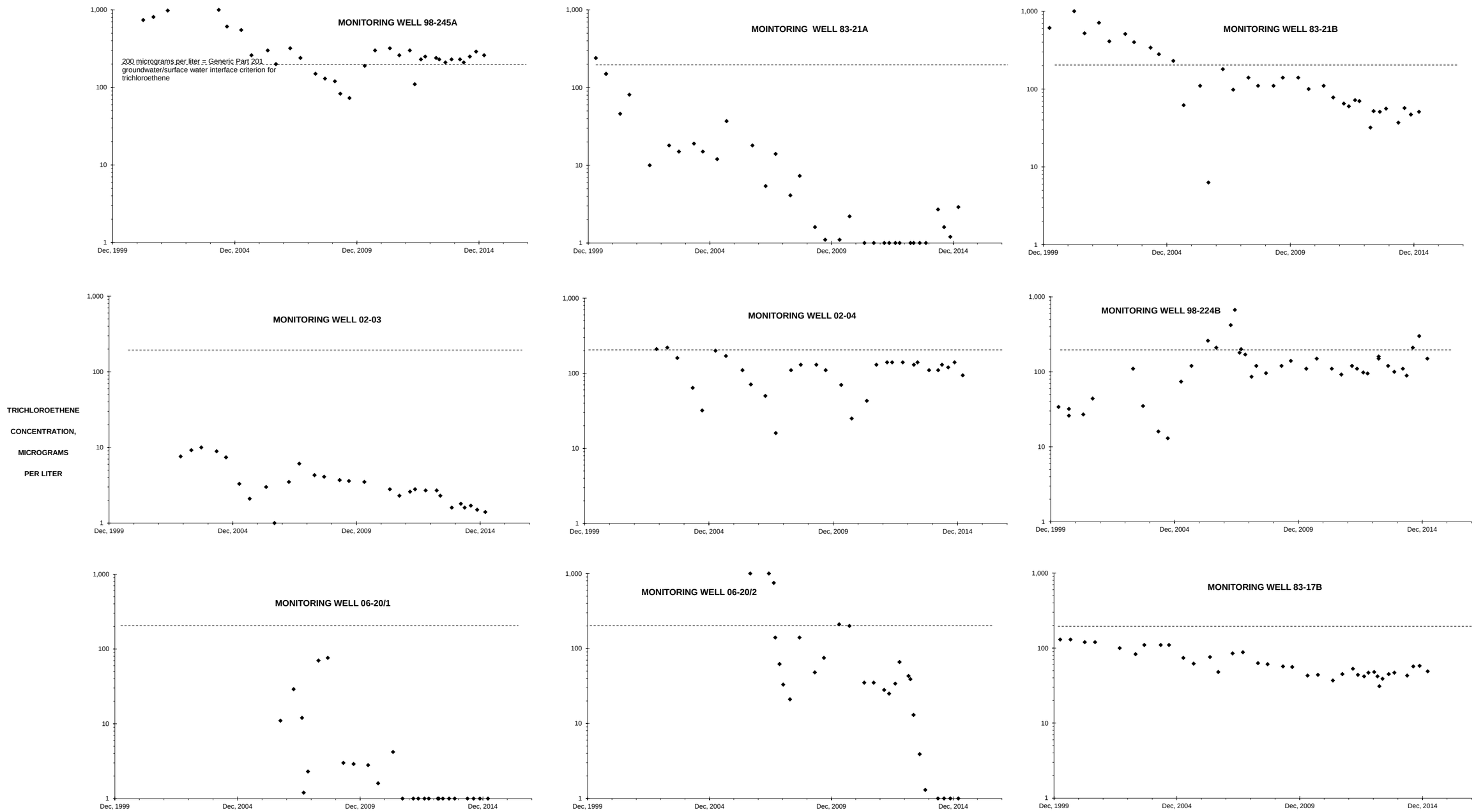


FIGURE 6: TRICHLOROETHENE CONCENTRATION TIME TRENDS IN GSI COMPLIANCE MONITORING WELLS (page 2 of 2)



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

April 14, 2015

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

RE: **PRAIRIE RONDE REALTY**

Microseeps Workorder: 15068

Dear R. Mursch, P.E.:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, March 27, 2015. 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 04/14/2015
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 16

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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, PAES 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: 15068 PRAIRIE RONDE REALTY

Lab ID	Sample ID	Matrix	Date Collected	Date Received
150680001	VMP-1	Vapor	3/24/2015 13:00	3/27/2015 16:00
150680002	VMP-2	Vapor	3/24/2015 13:10	3/27/2015 16:00
150680003	VMP-10	Vapor	3/24/2015 13:20	3/27/2015 16:00
150680004	SVE-5	Vapor	3/24/2015 13:30	3/27/2015 16:00
150680005	SVE-K	Vapor	3/24/2015 14:00	3/27/2015 16:00

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ANALYTICAL RESULTS

Workorder: 15068 PRAIRIE RONDE REALTY

Lab ID: **150680001** Date Received: 3/27/2015 16:00 Matrix: Vapor
Sample ID: **VMP-1** Date Collected: 3/24/2015 13:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors					
Vinyl Chloride	**0.22J**	ppmv	1.0	0.095	1	4/3/2015 02:22	SL	n
1,1-Dichloroethene	**0.0010U**	ppmv	0.010	0.0010	1	4/3/2015 02:22	SL	n
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1	4/3/2015 02:22	SL	n
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1	4/3/2015 02:22	SL	n
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1	4/3/2015 02:22	SL	n
cis-1,2-Dichloroethene	**0.0070U**	ppmv	0.020	0.0070	1	4/3/2015 02:22	SL	n
Chloroform	**0.0010U**	ppmv	0.0050	0.0010	1	4/3/2015 02:22	SL	n
1,1,1-Trichloroethane	**0.0010U**	ppmv	0.0050	0.0010	1	4/3/2015 02:22	SL	n
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1	4/3/2015 02:22	SL	n
Trichloroethene	**0.011**	ppmv	0.010	0.0010	1	4/3/2015 02:22	SL	n
Tetrachloroethene	**0.0026J**	ppmv	0.010	0.0010	1	4/3/2015 02:22	SL	n

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ANALYTICAL RESULTS

Workorder: 15068 PRAIRIE RONDE REALTY

Lab ID: **150680002** Date Received: 3/27/2015 16:00 Matrix: Vapor

Sample ID: **VMP-2** Date Collected: 3/24/2015 13:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors					
Vinyl Chloride	**0.13J**	ppmv	1.0	0.095	1	4/3/2015 03:30	SL	n
1,1-Dichloroethene	**0.0010U**	ppmv	0.010	0.0010	1	4/3/2015 03:30	SL	n
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1	4/3/2015 03:30	SL	n
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1	4/3/2015 03:30	SL	n
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1	4/3/2015 03:30	SL	n
cis-1,2-Dichloroethene	**0.0070U**	ppmv	0.020	0.0070	1	4/3/2015 03:30	SL	n
Chloroform	**0.0010U**	ppmv	0.0050	0.0010	1	4/3/2015 03:30	SL	n
1,1,1-Trichloroethane	**0.0040J**	ppmv	0.0050	0.0010	1	4/3/2015 03:30	SL	n
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1	4/3/2015 03:30	SL	n
Trichloroethene	**0.093**	ppmv	0.010	0.0010	1	4/3/2015 03:30	SL	n
Tetrachloroethene	**0.0017J**	ppmv	0.010	0.0010	1	4/3/2015 03:30	SL	n

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ANALYTICAL RESULTS

Workorder: 15068 PRAIRIE RONDE REALTY

Lab ID: **150680003** Date Received: 3/27/2015 16:00 Matrix: Vapor
Sample ID: **VMP-10** Date Collected: 3/24/2015 13:20

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors					
Vinyl Chloride	**0.13J**	ppmv	1.0	0.095	1	4/3/2015 04:38	SL	n
1,1-Dichloroethene	**0.011**	ppmv	0.010	0.0010	1	4/3/2015 04:38	SL	n
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1	4/3/2015 04:38	SL	n
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1	4/3/2015 04:38	SL	n
1,1-Dichloroethane	**0.041**	ppmv	0.020	0.0040	1	4/3/2015 04:38	SL	n
cis-1,2-Dichloroethene	**0.0070U**	ppmv	0.020	0.0070	1	4/3/2015 04:38	SL	n
Chloroform	**0.0088**	ppmv	0.0050	0.0010	1	4/3/2015 04:38	SL	n
1,1,1-Trichloroethane	**0.16**	ppmv	0.0050	0.0010	1	4/3/2015 04:38	SL	n
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1	4/3/2015 04:38	SL	n
Trichloroethene	**0.22**	ppmv	0.010	0.0010	1	4/3/2015 04:38	SL	n
Tetrachloroethene	**0.0053J**	ppmv	0.010	0.0010	1	4/3/2015 04:38	SL	n

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ANALYTICAL RESULTS

Workorder: 15068 PRAIRIE RONDE REALTY

Lab ID: **150680004** Date Received: 3/27/2015 16:00 Matrix: Vapor
Sample ID: **SVE-5** Date Collected: 3/24/2015 13:30

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors					
Vinyl Chloride	**0.10J**	ppmv	1.0	0.095	1	4/3/2015 05:46	SL	n
1,1-Dichloroethene	**0.0010U**	ppmv	0.010	0.0010	1	4/3/2015 05:46	SL	n
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1	4/3/2015 05:46	SL	n
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1	4/3/2015 05:46	SL	n
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1	4/3/2015 05:46	SL	n
cis-1,2-Dichloroethene	**0.0070U**	ppmv	0.020	0.0070	1	4/3/2015 05:46	SL	n
Chloroform	**0.0010U**	ppmv	0.0050	0.0010	1	4/3/2015 05:46	SL	n
1,1,1-Trichloroethane	**0.0010U**	ppmv	0.0050	0.0010	1	4/3/2015 05:46	SL	n
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1	4/3/2015 05:46	SL	n
Trichloroethene	**0.32**	ppmv	0.010	0.0010	1	4/3/2015 05:46	SL	n
Tetrachloroethene	**0.0011J**	ppmv	0.010	0.0010	1	4/3/2015 05:46	SL	n

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ANALYTICAL RESULTS

Workorder: 15068 PRAIRIE RONDE REALTY

Lab ID: **150680005** Date Received: 3/27/2015 16:00 Matrix: Vapor
Sample ID: **SVE-K** Date Collected: 3/24/2015 14:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors					
Vinyl Chloride	**0.15J**	ppmv	1.0	0.095	1	4/3/2015 06:54	SL	n
1,1-Dichloroethene	**0.0010U**	ppmv	0.010	0.0010	1	4/3/2015 06:54	SL	n
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1	4/3/2015 06:54	SL	n
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1	4/3/2015 06:54	SL	n
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1	4/3/2015 06:54	SL	n
cis-1,2-Dichloroethene	**0.0070U**	ppmv	0.020	0.0070	1	4/3/2015 06:54	SL	n
Chloroform	**0.0029J**	ppmv	0.0050	0.0010	1	4/3/2015 06:54	SL	n
1,1,1-Trichloroethane	**0.033**	ppmv	0.0050	0.0010	1	4/3/2015 06:54	SL	n
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1	4/3/2015 06:54	SL	n
Trichloroethene	**0.17**	ppmv	0.010	0.0010	1	4/3/2015 06:54	SL	n
Tetrachloroethene	**0.0029J**	ppmv	0.010	0.0010	1	4/3/2015 06:54	SL	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 15068 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 Quanitation 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).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 15068 PRAIRIE RONDE REALTY

QC Batch: VAP/1668 Analysis Method: AM4.02 Vapors

QC Batch Method: AM4.02 Vapors

Associated Lab Samples: 150680001, 150680002, 150680003, 150680004, 150680005

METHOD BLANK: 34033

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

METHOD BLANK: 34034

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

LABORATORY CONTROL SAMPLE & LCSD: 34035 34037

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	0.63	0.63	97	97	75-125	0	20	n,,,,,,,,,
trans-1,2-Dichloroethene	ppmv	0.65	0.59	0.59	91	91	75-125	0	20	n,,,,,,,,,
1,1-Dichloroethane	ppmv	0.64	0.65	0.64	101	101	75-125	0	20	n,,,,,,,,,
cis-1,2-Dichloroethene	ppmv		0.0070U	0.0070U						n,,,,,,,,,
Chloroform	ppmv	0.53	0.51	0.51	97	97	75-125	0	20	n,,,,,,,,,
1,1,1-Trichloroethane	ppmv	0.47	0.44	0.44	94	94	75-125	0	20	n,,,,,,,,,
Carbon Tetrachloride	ppmv	0.41	0.40	0.41	99	99	75-125	0	20	n,,,,,,,,,
Trichloroethene	ppmv	0.48	0.46	0.46	95	95	75-125	0	20	n,,,,,,,,,
Tetrachloroethene	ppmv		0.0010U	0.0010U						n,,,,,,,,,

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QUALITY CONTROL DATA

Workorder: 15068 PRAIRIE RONDE REALTY

LABORATORY CONTROL SAMPLE & LCSD: 34036 34038

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						n,,,,,,,,,
Methylene Chloride	ppmv		0.19U	0.19U						n,,,,,,,,,

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 15068 PRAIRIE RONDE REALTY

QUALITY CONTROL PARAMETER QUALIFIERS

n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 15068 PRAIRIE RONDE REALTY

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
150680001	VMP-1			AM4.02 Vapors	VAP/1668
150680002	VMP-2			AM4.02 Vapors	VAP/1668
150680003	VMP-10			AM4.02 Vapors	VAP/1668
150680004	SVE-5			AM4.02 Vapors	VAP/1668
150680005	SVE-K			AM4.02 Vapors	VAP/1668

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15068

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Microseeps

Page: 1 of 1

002861

Section A Required Client Information:

Company: PRAIRIE DOUDE REALTY
Address: 415 E. PRAIRIE ROUDE
PORTAGE MI 49047
Email To: davidmursch@earthlink.net
Phone: 5256 234 5906 Fax:
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: R DAVID MURSCH
Copy To: BRIAN DELONG @ PRR
Purchase Order No.:
Project Name: PRR
Project Number: 016-01

Section C Invoice Information:

Attention: BRIAN DELONG
Company Name: PRR
Address: 415 E. PRAIRIE ROUDE
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☒ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Chlorinated HC

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	TSP	BAK	Zink Acetate & NaOH	Other	Analysis Test (Y/N)	Chlorinated HC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	VMP-1	A	G	3/24	1300				2	/									/		
2	VMP-2	A	G		1310				2	/									/		
3	~~SVE-5~~ VMP-10	A	G		1320				2	/									/		
4	SVE-5	A	G		1330				2	/									/		
5	SVE-7	A	G		1340				2	/									/		
6	SVE-2	A	G		1350				2	/									/		
7	SVE-K	A	G	↓	1400				2	/									/		
8																					
9																					
10																					
11																					
12																					

5

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
				[illegible] PRR	3/25/15	1000	n/a	n/a	N	

2

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. DAVID MURSCH

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/25/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*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

NON-CONFORMANCE FORM

PAES Work Order #: 15068

Date: 3.27.15 Time of Receipt: 1600 Receiver: LJ

Client: PRR

REASON FOR NON-CONFORMANCE:

Did not received SVE-2.
Received 2 sets of SVE-7. No date & time of collection on all vials of all samples
→ unable to decide.

ACTION TAKEN:

Client name: David Mursch Date: 3/30/15 Time: email

Per attached email - discard two sample sets ~~for~~ KL 3/30/15 labeled SVE-7.

Customer Service Initials: RL Date: 3/30/15

F-PAE-Q-014-rev.00, 20 Nov2014

Robbin Robl

From: David Mursch <davidmursch@earthlink.net>
Sent: Monday, March 30, 2015 9:27 AM
To: Robbin Robl
Subject: RE: Prairie Ronde

15068

Discard those two sample sets and I will re-sample them tomorrow.

..rdm

From: Robbin Robl [mailto:rrobl@microseeps.com]
Sent: Monday, March 30, 2015 9:12 AM
To: David Mursch
Subject: Prairie Ronde
Importance: High

Good Morning David,

We received samples for the Prairie Ronde site on Friday afternoon. I received a non-conformance as we did not receive Sample SVE-2. We did receive two sets of vials labeled SVE-7, however are unable to determine which sample is SVE-7 and which one may be SVE-2 as there are no collection dates or times noted on either of the vials.

I would appreciate it if you can please advise as to how we are to proceed.

Thank you!
Robbin

Robbin Robl
Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Direct: 412-826-4483
Fax: 412-826-3433
Main: 412-826-5245

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February 20, 2015

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

RE: **PRAIRIE RONDE REALTY**
Microseeps Workorder: 14738

Dear R. Mursch, P.E.:

Enclosed are the analytical results for sample(s) received by the laboratory on Monday, February 16, 2015. 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 02/20/2015
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 20

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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, PAES 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: 14738 PRAIRIE RONDE REALTY

Lab ID	Sample ID	Matrix	Date Collected	Date Received
147380001	SVE-A	Vapor	2/12/2015 10:10	2/16/2015 13:00
147380002	SVE-M	Vapor	2/12/2015 10:00	2/16/2015 13:00
147380003	SVE-8	Vapor	2/12/2015 10:15	2/16/2015 13:00
147380004	SVE-9	Vapor	2/12/2015 10:20	2/16/2015 13:00
147380005	SVE-O	Vapor	2/12/2015 10:25	2/16/2015 13:00
147380006	SVE-H	Vapor	2/12/2015 10:40	2/16/2015 13:00
147380007	SVE-6	Vapor	2/12/2015 10:50	2/16/2015 13:00
147380008	SVE-4	Vapor	2/12/2015 11:00	2/16/2015 13:00
147380009	SVE-3	Vapor	2/12/2015 11:15	2/16/2015 13:00
147380010	98-226A	Vapor	2/12/2015 11:25	2/16/2015 13:00

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ANALYTICAL RESULTS

Workorder: 14738 PRAIRIE RONDE REALTY

Lab ID: **147380001** Date Received: 2/16/2015 13:00 Matrix: Vapor

Sample ID: **SVE-A** Date Collected: 2/12/2015 10:10

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	**0.095U**	ppmv	1.0	0.095	1			2/17/2015 00:27	SL	
1,1-Dichloroethene	**0.0010U**	ppmv	0.010	0.0010	1			2/17/2015 00:27	SL	
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1			2/17/2015 00:27	SL	
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1			2/17/2015 00:27	SL	
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1			2/17/2015 00:27	SL	
cis-1,2-Dichloroethene	**0.20**	ppmv	0.020	0.0070	1			2/17/2015 00:27	SL	
Chloroform	**0.0012J**	ppmv	0.0050	0.0010	1			2/17/2015 00:27	SL	
1,1,1-Trichloroethane	**0.021**	ppmv	0.0050	0.0010	1			2/17/2015 00:27	SL	
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1			2/17/2015 00:27	SL	
Trichloroethene	**0.39**	ppmv	0.010	0.0010	1			2/17/2015 00:27	SL	
Tetrachloroethene	**0.0024J**	ppmv	0.010	0.0010	1			2/17/2015 00:27	SL	

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ANALYTICAL RESULTS

Workorder: 14738 PRAIRIE RONDE REALTY

Lab ID: **147380002** Date Received: 2/16/2015 13:00 Matrix: Vapor

Sample ID: **SVE-M** Date Collected: 2/12/2015 10:00

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	**0.18J**	ppmv	1.0	0.095	1			2/17/2015 01:35	SL	
1,1-Dichloroethene	**0.0059J**	ppmv	0.010	0.0010	1			2/17/2015 01:35	SL	
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1			2/17/2015 01:35	SL	
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1			2/17/2015 01:35	SL	
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1			2/17/2015 01:35	SL	
cis-1,2-Dichloroethene	**0.51**	ppmv	0.020	0.0070	1			2/17/2015 01:35	SL	
Chloroform	**0.0010U**	ppmv	0.0050	0.0010	1			2/17/2015 01:35	SL	
1,1,1-Trichloroethane	**0.015**	ppmv	0.0050	0.0010	1			2/17/2015 01:35	SL	
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1			2/17/2015 01:35	SL	
Trichloroethene	**0.33**	ppmv	0.010	0.0010	1			2/17/2015 01:35	SL	
Tetrachloroethene	**0.0022J**	ppmv	0.010	0.0010	1			2/17/2015 01:35	SL	

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ANALYTICAL RESULTS

Workorder: 14738 PRAIRIE RONDE REALTY

Lab ID: **147380003** Date Received: 2/16/2015 13:00 Matrix: Vapor

Sample ID: **SVE-8** Date Collected: 2/12/2015 10:15

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	**0.14J**	ppmv	1.0	0.095	1			2/17/2015 02:43	SL	
1,1-Dichloroethene	**0.0010U**	ppmv	0.010	0.0010	1			2/17/2015 02:43	SL	
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1			2/17/2015 02:43	SL	
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1			2/17/2015 02:43	SL	
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1			2/17/2015 02:43	SL	
cis-1,2-Dichloroethene	**0.15**	ppmv	0.020	0.0070	1			2/17/2015 02:43	SL	
Chloroform	**0.0010U**	ppmv	0.0050	0.0010	1			2/17/2015 02:43	SL	
1,1,1-Trichloroethane	**0.019**	ppmv	0.0050	0.0010	1			2/17/2015 02:43	SL	
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1			2/17/2015 02:43	SL	
Trichloroethene	**0.24**	ppmv	0.010	0.0010	1			2/17/2015 02:43	SL	
Tetrachloroethene	**0.0011J**	ppmv	0.010	0.0010	1			2/17/2015 02:43	SL	

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ANALYTICAL RESULTS

Workorder: 14738 PRAIRIE RONDE REALTY

Lab ID: **147380004** Date Received: 2/16/2015 13:00 Matrix: Vapor

Sample ID: **SVE-9** Date Collected: 2/12/2015 10:20

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	**0.095U**	ppmv	1.0	0.095	1			2/17/2015 03:52	SL	
1,1-Dichloroethene	**0.0010U**	ppmv	0.010	0.0010	1			2/17/2015 03:52	SL	
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1			2/17/2015 03:52	SL	
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1			2/17/2015 03:52	SL	
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1			2/17/2015 03:52	SL	
cis-1,2-Dichloroethene	**0.073**	ppmv	0.020	0.0070	1			2/17/2015 03:52	SL	
Chloroform	**0.0023J**	ppmv	0.0050	0.0010	1			2/17/2015 03:52	SL	
1,1,1-Trichloroethane	**0.013**	ppmv	0.0050	0.0010	1			2/17/2015 03:52	SL	
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1			2/17/2015 03:52	SL	
Trichloroethene	**0.28**	ppmv	0.010	0.0010	1			2/17/2015 03:52	SL	
Tetrachloroethene	**0.0018J**	ppmv	0.010	0.0010	1			2/17/2015 03:52	SL	

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ANALYTICAL RESULTS

Workorder: 14738 PRAIRIE RONDE REALTY

Lab ID: **147380005** Date Received: 2/16/2015 13:00 Matrix: Vapor

Sample ID: **SVE-O** Date Collected: 2/12/2015 10:25

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	**0.095U**	ppmv	1.0	0.095	1			2/17/2015 05:00	SL	
1,1-Dichloroethene	**0.0010U**	ppmv	0.010	0.0010	1			2/17/2015 05:00	SL	
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1			2/17/2015 05:00	SL	
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1			2/17/2015 05:00	SL	
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1			2/17/2015 05:00	SL	
cis-1,2-Dichloroethene	**0.0070U**	ppmv	0.020	0.0070	1			2/17/2015 05:00	SL	
Chloroform	**0.0010U**	ppmv	0.0050	0.0010	1			2/17/2015 05:00	SL	
1,1,1-Trichloroethane	**0.0010U**	ppmv	0.0050	0.0010	1			2/17/2015 05:00	SL	
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1			2/17/2015 05:00	SL	
Trichloroethene	**0.046**	ppmv	0.010	0.0010	1			2/17/2015 05:00	SL	
Tetrachloroethene	**0.0010U**	ppmv	0.010	0.0010	1			2/17/2015 05:00	SL	

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ANALYTICAL RESULTS

Workorder: 14738 PRAIRIE RONDE REALTY

Lab ID: **147380006** Date Received: 2/16/2015 13:00 Matrix: Vapor
Sample ID: **SVE-H** Date Collected: 2/12/2015 10:40

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	**0.095U**	ppmv	1.0	0.095	1			2/17/2015 06:08	SL	
1,1-Dichloroethene	**0.0010U**	ppmv	0.010	0.0010	1			2/17/2015 06:08	SL	
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1			2/17/2015 06:08	SL	
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1			2/17/2015 06:08	SL	
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1			2/17/2015 06:08	SL	
cis-1,2-Dichloroethene	**0.0070U**	ppmv	0.020	0.0070	1			2/17/2015 06:08	SL	
Chloroform	**0.0012J**	ppmv	0.0050	0.0010	1			2/17/2015 06:08	SL	
1,1,1-Trichloroethane	**0.0092**	ppmv	0.0050	0.0010	1			2/17/2015 06:08	SL	
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1			2/17/2015 06:08	SL	
Trichloroethene	**0.16**	ppmv	0.010	0.0010	1			2/17/2015 06:08	SL	
Tetrachloroethene	**0.014**	ppmv	0.010	0.0010	1			2/17/2015 06:08	SL	

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ANALYTICAL RESULTS

Workorder: 14738 PRAIRIE RONDE REALTY

Lab ID: **147380007** Date Received: 2/16/2015 13:00 Matrix: Vapor

Sample ID: **SVE-6** Date Collected: 2/12/2015 10:50

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	**0.10J**	ppmv	1.0	0.095	1			2/17/2015 07:16	SL	
1,1-Dichloroethene	**0.0010U**	ppmv	0.010	0.0010	1			2/17/2015 07:16	SL	
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1			2/17/2015 07:16	SL	
trans-1,2-Dichloroethene	**0.018**	ppmv	0.010	0.0080	1			2/17/2015 07:16	SL	
1,1-Dichloroethane	**0.023**	ppmv	0.020	0.0040	1			2/17/2015 07:16	SL	
cis-1,2-Dichloroethene	**0.78**	ppmv	0.020	0.0070	1			2/17/2015 07:16	SL	
Chloroform	**0.0099**	ppmv	0.0050	0.0010	1			2/17/2015 07:16	SL	
1,1,1-Trichloroethane	**0.022**	ppmv	0.0050	0.0010	1			2/17/2015 07:16	SL	
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1			2/17/2015 07:16	SL	
Trichloroethene	**0.99**	ppmv	0.010	0.0010	1			2/17/2015 07:16	SL	
Tetrachloroethene	**0.0043J**	ppmv	0.010	0.0010	1			2/17/2015 07:16	SL	

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ANALYTICAL RESULTS

Workorder: 14738 PRAIRIE RONDE REALTY

Lab ID: **147380008** Date Received: 2/16/2015 13:00 Matrix: Vapor

Sample ID: **SVE-4** Date Collected: 2/12/2015 11:00

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	**0.095U**	ppmv	1.0	0.095	1			2/17/2015 08:24	SL	
1,1-Dichloroethene	**0.0047J**	ppmv	0.010	0.0010	1			2/17/2015 08:24	SL	
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1			2/17/2015 08:24	SL	
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1			2/17/2015 08:24	SL	
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1			2/17/2015 08:24	SL	
cis-1,2-Dichloroethene	**1.3**	ppmv	0.020	0.0070	1			2/17/2015 08:24	SL	
Chloroform	**0.0045J**	ppmv	0.0050	0.0010	1			2/17/2015 08:24	SL	
1,1,1-Trichloroethane	**0.0054**	ppmv	0.0050	0.0010	1			2/17/2015 08:24	SL	
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1			2/17/2015 08:24	SL	
Trichloroethene	**2.2**	ppmv	0.010	0.0010	1			2/17/2015 08:24	SL	
Tetrachloroethene	**0.0039J**	ppmv	0.010	0.0010	1			2/17/2015 08:24	SL	

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ANALYTICAL RESULTS

Workorder: 14738 PRAIRIE RONDE REALTY

Lab ID: **147380009** Date Received: 2/16/2015 13:00 Matrix: Vapor

Sample ID: **SVE-3** Date Collected: 2/12/2015 11:15

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	**0.68J**	ppmv	1.0	0.095	1			2/17/2015 09:32	SL	
1,1-Dichloroethene	**0.0010U**	ppmv	0.010	0.0010	1			2/17/2015 09:32	SL	
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1			2/17/2015 09:32	SL	
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1			2/17/2015 09:32	SL	
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1			2/17/2015 09:32	SL	
cis-1,2-Dichloroethene	**0.11**	ppmv	0.020	0.0070	1			2/17/2015 09:32	SL	
Chloroform	**0.010**	ppmv	0.0050	0.0010	1			2/17/2015 09:32	SL	
1,1,1-Trichloroethane	**0.0064**	ppmv	0.0050	0.0010	1			2/17/2015 09:32	SL	
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1			2/17/2015 09:32	SL	
Trichloroethene	**1.6**	ppmv	0.010	0.0010	1			2/17/2015 09:32	SL	
Tetrachloroethene	**0.0020J**	ppmv	0.010	0.0010	1			2/17/2015 09:32	SL	

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ANALYTICAL RESULTS

Workorder: 14738 PRAIRIE RONDE REALTY

Lab ID: **147380010** Date Received: 2/16/2015 13:00 Matrix: Vapor

Sample ID: **98-226A** Date Collected: 2/12/2015 11:25

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	**0.095U**	ppmv	1.0	0.095	1			2/17/2015 10:40	SL	
1,1-Dichloroethene	**0.0010U**	ppmv	0.010	0.0010	1			2/17/2015 10:40	SL	
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1			2/17/2015 10:40	SL	
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1			2/17/2015 10:40	SL	
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1			2/17/2015 10:40	SL	
cis-1,2-Dichloroethene	**0.12**	ppmv	0.020	0.0070	1			2/17/2015 10:40	SL	
Chloroform	**0.012**	ppmv	0.0050	0.0010	1			2/17/2015 10:40	SL	
1,1,1-Trichloroethane	**0.012**	ppmv	0.0050	0.0010	1			2/17/2015 10:40	SL	
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1			2/17/2015 10:40	SL	
Trichloroethene	**2.6**	ppmv	0.010	0.0010	1			2/17/2015 10:40	SL	
Tetrachloroethene	**0.0033J**	ppmv	0.010	0.0010	1			2/17/2015 10:40	SL	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 14738 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 Quanitation 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: 14738 PRAIRIE RONDE REALTY

QC Batch: VAP/1655 Analysis Method: AM4.02 Vapors

QC Batch Method: AM4.02 Vapors

Associated Lab Samples: 147380001, 147380002, 147380003, 147380004, 147380005, 147380006, 147380007, 147380008, 147380009, 147380010

METHOD BLANK: 33346

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: 33347

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: 33348 33350

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	0.66	0.65	101	101	75-125	0	20	
trans-1,2-Dichloroethene	ppmv	0.65	0.62	0.62	95	96	75-125	1	20	
1,1-Dichloroethane	ppmv	0.64	0.69	0.68	108	107	75-125	0.93	20	
cis-1,2-Dichloroethene	ppmv		0.0070U	0.0070U						
Chloroform	ppmv	0.53	0.51	0.51	96	96	75-125	0	20	
1,1,1-Trichloroethane	ppmv	0.47	0.43	0.42	91	90	75-125	1.1	20	
Carbon Tetrachloride	ppmv	0.41	0.39	0.39	95	94	75-125	1.1	20	
Trichloroethene	ppmv	0.48	0.46	0.45	96	95	75-125	1	20	
Tetrachloroethene	ppmv		0.0010U	0.0010U						

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QUALITY CONTROL DATA

Workorder: 14738 PRAIRIE RONDE REALTY

LABORATORY CONTROL SAMPLE & LCSD: 33349 33351

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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 14738 PRAIRIE RONDE REALTY

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
147380001	SVE-A			AM4.02 Vapors	VAP/1655
147380002	SVE-M			AM4.02 Vapors	VAP/1655
147380003	SVE-8			AM4.02 Vapors	VAP/1655
147380004	SVE-9			AM4.02 Vapors	VAP/1655
147380005	SVE-O			AM4.02 Vapors	VAP/1655
147380006	SVE-H			AM4.02 Vapors	VAP/1655
147380007	SVE-6			AM4.02 Vapors	VAP/1655
147380008	SVE-4			AM4.02 Vapors	VAP/1655
147380009	SVE-3			AM4.02 Vapors	VAP/1655
147380010	98-226A			AM4.02 Vapors	VAP/1655

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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.

14738

Page: 1 of 1

002717

Section A Required Client Information:

Company: PRAIRIE ROUNE REALTY
Address: 415 E. PRAIRIE ROUNE ST
DOWAGIAC MI 49047
Email To: davidmursch@earthlink.net
Phone: 828 231 5906 Fax:
Requested Due Date/TAT: 5 DAYS

Section B Required Project Information:

Report To: R. DAVID MURSCH
Copy To: davidmursch@earthlink.net
Purchase Order No.:
Project Name:
Project Number:

Section C Invoice Information:

Attention: BRIAN DELONG
Company Name: BRR
Address: 415 E. PRAIRIE ROUNE
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER SVE/AIR

Site Location STATE:

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	TSP	BAK	Zink Acetate & NaOH	Other	Analysis Test (Y/N): Chlor, VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SVE-A	AR	G			2-12-15	1010		2	✓								/		
2	SVE-M	AR	G			↓	1000		2	✓								/		
3	SVE-B	AR	G				1015		2	✓								/		
4	SVE-9	AR	G				1025		2	✓								/		
5	~~SVE-7~~	~~AR~~	~~G~~															NO SAMPLE TAKEN		
6	SVE-D	AR	G				1025		2	✓								/		
7	SVE-H	AR	G				1040		2	✓								/		
8	SVE-6	AR	G				1050		2	✓								/		
9	SVE-4	AR	G				1100		2	✓								/		
10	SVE-3	AR	G				1115		2	✓								/		
11	PR-226 A	AR	G			↓	1125		2	✓								/		
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
5-DAY TAT	[signature]	2/12/15	1200	[signature] PACE	2.16.15	1300	n/a	n/a	N	Y

2

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. DAVID MURSCH

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2-12-15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*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.

NON-CONFORMANCE FORM

PAES Work Order #: 14738

Date: 2.16.15 Time of Receipt: 1300 Receiver: LY

Client: Prairie Ronde Realty

REASON FOR NON-CONFORMANCE:

1. SVE-8: COC time 1015
Vials time 815

2. All samples: 2nd vial was not labeled. No date of collection on 1st vial. Date taken from COC.

ACTION TAKEN:

Client name: David Mursch Date: 2/16/15 Time: email

Per attached email - correct time is 10:15.

Customer Service Initials: RR Date: 2/16/15

F-PAE-Q-014-rev.00, 20 Nov2014

Robbin Robl 14738

From: David Mursch <davidmursch@earthlink.net>
Sent: Monday, February 16, 2015 4:30 PM
To: Robbin Robl
Subject: RE: Prairie Ronde Realty

The correct time is 10:15.

Thank you..rdm

From: Robbin Robl [mailto:rrobl@microseeps.com]
Sent: Monday, February 16, 2015 3:49 PM
To: David Mursch
Subject: Prairie Ronde Realty

Hi David,

We received samples today for your project Prairie Ronde Realty. I received a non-conformance as sample SVE-8 was received with a collection time of 10:15 on the COC, however the sample vials were labeled with a collection time of 8:15.

I would appreciate it if you can please tell me which collection time is correct for reporting purposes.

Also, the second vial for all samples was not labeled.

Thank you,
Robbin

Robbin Robl
Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Direct: 412-826-4483
Fax: 412-826-3433
Main: 412-826-5245

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April 14, 2015

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

RE: **PRAIRIE RONDE**

Microseeps Workorder: 15110

Dear R. Mursch, P.E.:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, April 02, 2015. 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 04/14/2015
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 12

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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, PAES 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: 15110 PRAIRIE RONDE

Lab ID	Sample ID	Matrix	Date Collected	Date Received
151100001	SVE-2	Vapor	3/31/2015 08:30	4/2/2015 13:00
151100002	SVE-7	Vapor	3/31/2015 08:45	4/2/2015 13:00

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ANALYTICAL RESULTS

Workorder: 15110 PRAIRIE RONDE

Lab ID: **151100001** Date Received: 4/2/2015 13:00 Matrix: Vapor
Sample ID: **SVE-2** Date Collected: 3/31/2015 08:30

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors					
Vinyl Chloride	**0.14J**	ppmv	1.0	0.095	1	4/3/2015 14:51	SL	n
1,1-Dichloroethene	**0.0010U**	ppmv	0.010	0.0010	1	4/3/2015 14:51	SL	n
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1	4/3/2015 14:51	SL	n
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1	4/3/2015 14:51	SL	n
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1	4/3/2015 14:51	SL	n
cis-1,2-Dichloroethene	**0.0070U**	ppmv	0.020	0.0070	1	4/3/2015 14:51	SL	n
Chloroform	**0.0010U**	ppmv	0.0050	0.0010	1	4/3/2015 14:51	SL	n
1,1,1-Trichloroethane	**0.0043J**	ppmv	0.0050	0.0010	1	4/3/2015 14:51	SL	n
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1	4/3/2015 14:51	SL	n
Trichloroethene	**0.11**	ppmv	0.010	0.0010	1	4/3/2015 14:51	SL	n
Tetrachloroethene	**0.015**	ppmv	0.010	0.0010	1	4/3/2015 14:51	SL	n

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ANALYTICAL RESULTS

Workorder: 15110 PRAIRIE RONDE

Lab ID: **151100002** Date Received: 4/2/2015 13:00 Matrix: Vapor
Sample ID: **SVE-7** Date Collected: 3/31/2015 08:45

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors					
Vinyl Chloride	**0.10J**	ppmv	1.0	0.095	1	4/3/2015 15:59	SL	n
1,1-Dichloroethene	**0.0042J**	ppmv	0.010	0.0010	1	4/3/2015 15:59	SL	n
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1	4/3/2015 15:59	SL	n
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1	4/3/2015 15:59	SL	n
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1	4/3/2015 15:59	SL	n
cis-1,2-Dichloroethene	**0.15**	ppmv	0.020	0.0070	1	4/3/2015 15:59	SL	n
Chloroform	**0.0043J**	ppmv	0.0050	0.0010	1	4/3/2015 15:59	SL	n
1,1,1-Trichloroethane	**0.19**	ppmv	0.0050	0.0010	1	4/3/2015 15:59	SL	n
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1	4/3/2015 15:59	SL	n
Trichloroethene	**1.2**	ppmv	0.010	0.0010	1	4/3/2015 15:59	SL	n
Tetrachloroethene	**0.011**	ppmv	0.010	0.0010	1	4/3/2015 15:59	SL	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 15110 PRAIRIE RONDE

DEFINITIONS/QUALIFIERS

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MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation 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).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 15110 PRAIRIE RONDE

QC Batch: VAP/1668 Analysis Method: AM4.02 Vapors
QC Batch Method: AM4.02 Vapors
Associated Lab Samples: 151100001, 151100002

METHOD BLANK: 34033

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

METHOD BLANK: 34034

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

LABORATORY CONTROL SAMPLE & LCSD: 34035 34037

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	0.63	0.63	97	97	75-125	0	20	n,,,,,,,,,
trans-1,2-Dichloroethene	ppmv	0.65	0.59	0.59	91	91	75-125	0	20	n,,,,,,,,,
1,1-Dichloroethane	ppmv	0.64	0.65	0.64	101	101	75-125	0	20	n,,,,,,,,,
cis-1,2-Dichloroethene	ppmv		0.0070U	0.0070U						n,,,,,,,,,
Chloroform	ppmv	0.53	0.51	0.51	97	97	75-125	0	20	n,,,,,,,,,
1,1,1-Trichloroethane	ppmv	0.47	0.44	0.44	94	94	75-125	0	20	n,,,,,,,,,
Carbon Tetrachloride	ppmv	0.41	0.40	0.41	99	99	75-125	0	20	n,,,,,,,,,
Trichloroethene	ppmv	0.48	0.46	0.46	95	95	75-125	0	20	n,,,,,,,,,
Tetrachloroethene	ppmv		0.0010U	0.0010U						n,,,,,,,,,

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QUALITY CONTROL DATA

Workorder: 15110 PRAIRIE RONDE

LABORATORY CONTROL SAMPLE & LCSD: 34036 34038

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						n,,,,,,,,,
Methylene Chloride	ppmv		0.19U	0.19U						n,,,,,,,,,

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Fax: (412) 826-3433

QUALITY CONTROL DATA QUALIFIERS

Workorder: 15110 PRAIRIE RONDE

QUALITY CONTROL PARAMETER QUALIFIERS

n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 15110 PRAIRIE RONDE

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
151100001	SVE-2			AM4.02 Vapors	VAP/1668
151100002	SVE-7			AM4.02 Vapors	VAP/1668

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CHAIN-OF-CUSTODY / Analytical Request Document

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15110

Page: 1 of 1

001296

Microseeps

Section A Required Client Information:

Company: PRR
Address: 415 E. PRAIRIE ROAD
DOWAGIAC, MI 49047
Email To: davidmorsch@earthlink.net
Phone: Fax:
Requested Due Date/TAT: Normal

Section B Required Project Information:

Report To: R. DAVID MORSCH
Copy To: BRIAN DELONG
Purchase Order No.:
Project Name:
Project Number:

Section C Invoice Information:

Attention: BRIAN DELONG
Company Name: PRR
Address: 415 E. PRAIRIE ROAD
Pace Quote Reference: DOWAGIAC, MI
Pace Project Manager: 49047
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☒ RCRA ☐ OTHER

Site Location STATE: MI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	TSP	BAK	Zink Acetate & NaOH	Other	Analysis Test (Y/N): CH4, VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SVE-2	AR	G	3/31	0830															
2	SVE-7	AR	G	3/31	0845															
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
				NATIONAL PACE (USPS)	4-2-05	1500	NA	NA	NA	

2

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. DAVID MORSCH

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/31/05

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*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

NON-CONFORMANCE FORM

PAES Work Order #: 15110

Date: 4.2.15 Time of Receipt: 1300 Receiver: LS

Client: PRR

REASON FOR NON-CONFORMANCE:

No date & time on samples. Date & time taken from COC.

ACTION TAKEN:

Client name: _____ Date: _____ Time: _____

Ok to proceed.

Customer Service Initials: RR Date: 4/2/15

F-PAE-Q-014-rev.00, 20 Nov2014

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

March 26, 2015

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

RE: **Prairie Road / PRR**

Microseeps Workorder: 14983

Dear R. Mursch, P.E.:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, March 20, 2015. 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 03/26/2015 RLO 3/27/15
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 10

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Phone: (412) 826-5245
Fax: (412) 826-3433

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, PAES 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: 14983 Prairie Road / PRR

Lab ID	Sample ID	Matrix	Date Collected	Date Received
149830001	BLOWER EFFLUENT	Vapor	3/18/2015 11:30	3/20/2015 14:30

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ANALYTICAL RESULTS

Workorder: 14983 Prairie Road / PRR

Lab ID: **149830001** Date Received: 3/20/2015 14:30 Matrix: Vapor

Sample ID: **BLOWER EFFLUENT** Date Collected: 3/18/2015 11:30

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	**0.095U**	ppmv	1.0	0.095	1			3/23/2015 23:48	SL	n
1,1-Dichloroethene	**0.0010U**	ppmv	0.010	0.0010	1			3/23/2015 23:48	SL	n
Methylene Chloride	**0.19U**	ppmv	2.0	0.19	1			3/23/2015 23:48	SL	n
trans-1,2-Dichloroethene	**0.0080U**	ppmv	0.010	0.0080	1			3/23/2015 23:48	SL	n
1,1-Dichloroethane	**0.0040U**	ppmv	0.020	0.0040	1			3/23/2015 23:48	SL	n
cis-1,2-Dichloroethene	**0.28**	ppmv	0.020	0.0070	1			3/23/2015 23:48	SL	n
Chloroform	**0.0024J**	ppmv	0.0050	0.0010	1			3/23/2015 23:48	SL	n
1,1,1-Trichloroethane	**0.0079**	ppmv	0.0050	0.0010	1			3/23/2015 23:48	SL	n
Carbon Tetrachloride	**0.0010U**	ppmv	0.0050	0.0010	1			3/23/2015 23:48	SL	n
Trichloroethene	**0.50**	ppmv	0.010	0.0010	1			3/23/2015 23:48	SL	n
Tetrachloroethene	**0.0048J**	ppmv	0.010	0.0010	1			3/23/2015 23:48	SL	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 14983 Prairie Road / PRR

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 Quanitation 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).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 14983 Prairie Road / PRR

QC Batch: VAP/1664 Analysis Method: AM4.02 Vapors
QC Batch Method: AM4.02 Vapors
Associated Lab Samples: 149830001

METHOD BLANK: 33836

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

METHOD BLANK: 33837

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

LABORATORY CONTROL SAMPLE & LCSD: 33838 33840

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	0.63	0.63	97	97	75-125	0	20	n
trans-1,2-Dichloroethene	ppmv	0.65	0.58	0.59	89	91	75-125	2.2	20	n
1,1-Dichloroethane	ppmv	0.64	0.66	0.65	103	101	75-125	2	20	n
cis-1,2-Dichloroethene	ppmv		0.0070U	0.0070U						n
Chloroform	ppmv	0.53	0.50	0.50	94	95	75-125	1.1	20	n
1,1,1-Trichloroethane	ppmv	0.47	0.42	0.42	89	90	75-125	1.1	20	n
Carbon Tetrachloride	ppmv	0.41	0.38	0.39	94	95	75-125	1.1	20	n
Trichloroethene	ppmv	0.48	0.45	0.45	93	94	75-125	1.1	20	n
Tetrachloroethene	ppmv		0.0010U	0.0010U						n

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QUALITY CONTROL DATA

Workorder: 14983 Prairie Road / PRR

LABORATORY CONTROL SAMPLE & LCSD: 33839 33841

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						n
Methylene Chloride	ppmv		0.19U	0.80J						n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 14983 Prairie Road / PRR

QUALITY CONTROL PARAMETER QUALIFIERS

n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 14983 Prairie Road / PRR

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
149830001	BLOWER EFFLUENT			AM4.02 Vapors	VAP/1664

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412-826-5245

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

14983

Page: 1 of 1

004536

Section A Required Client Information:

Company: Prairie Ronde Realty Co
Address: 415 E Prairie Ronde St
Dowagiac, MI 49047
Email To: davidmursch@earthlink.net
Phone: 269-782-2141 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: R. David Mursch
Copy To: Brian DeLong
Purchase Order No.: NA
Project Name: PRR
Project Number: NA

Section C Invoice Information:

Attention: Brian DeLong
Company Name: Prairie Ronde Realty Co.
Address: 415 E Prairie Ronde St, Dowagiac MI 49047
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER ____

Site Location STATE: MI

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Y/N; Analysis Test: Chlorinated VOCs

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	TSP	BAK	Zinc Acetate & NaOH	Other	Chlorinated VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Blower Effluent 1		AR	3-18-15	11:30a				1									X		
2	Blower Effluent 2		AR	3-18-15	11:32a				1									X		
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Brian DeLong / PRR	3-18-15		[signature] PAES	3.20.15	1430	n/a	n/a	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Brian DeLong
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3-18-15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*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

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 30, 2015

R.David Mursch
Prairie Ronde Realty Co.
415 E. Prairie Ronde St.
New Baltimore, MI 48047

RE: Project: PRR
Pace Project No.: 10300355

Dear R.David Mursch:
Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2015. 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
carolynne.trout@pacelabs.com
Project Manager

Enclosures

cc: Brian DeLong, Prairie Ronde Realty

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(612)607-1700

CERTIFICATIONS

Project: PRR
Pace Project No.: 10300355

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

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Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: PRR
Pace Project No.: 10300355

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10300355001	**NREC 1 (VMP-17)**	Air	03/19/15 09:23	03/23/15 08:50
10300355002	**NREC 1a (IA)**	Air	03/19/15 09:22	03/23/15 08:50
10300355003	**NREC 2 (VMP-18)**	Air	03/19/15 09:26	03/23/15 08:50
10300355004	**NREC 2a (IA)**	Air	03/19/15 09:25	03/23/15 08:50
10300355005	**LL-NE (IA)**	Air	03/19/15 09:32	03/23/15 08:50
10300355006	**LL-SW (IA)**	Air	03/19/15 09:34	03/23/15 08:50
10300355007	**SREC 1 (VMP-15)**	Air	03/19/15 09:37	03/23/15 08:50
10300355008	**SREC 1a (IA)**	Air	03/19/15 09:38	03/23/15 08:50
10300355009	**QT (VMP-16)**	Air	03/19/15 09:50	03/23/15 08:50
10300355010	**QT Office (IA)**	Air	03/19/15 09:52	03/23/15 08:50
10300355011	**MP (VMP-14)**	Air	03/19/15 09:55	03/23/15 08:50
10300355012	**MP2 (IA)**	Air	03/19/15 09:54	03/23/15 08:50
10300355013	**VH (VMP-13)**	Air	03/19/15 10:06	03/23/15 08:50
10300355014	**VH2 (IA)**	Air	03/19/15 10:11	03/23/15 08:50
10300355015	**JMT (VMP-12)**	Air	03/19/15 10:12	03/23/15 08:50
10300355016	**JMT2 (IA)**	Air	03/19/15 10:14	03/23/15 08:50
10300355017	**PRR Office (VMP-11)**	Air	03/19/15 10:24	03/23/15 08:50
10300355018	**PRR Office 2 (IA)**	Air	03/19/15 10:26	03/23/15 08:50

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: PRR
Pace Project No.: 10300355

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10300355001	**NREC 1 (VMP-17)**	TO-15	MLS	8
10300355002	**NREC 1a (IA)**	TO-15	MLS	8
10300355003	**NREC 2 (VMP-18)**	TO-15	MLS	8
10300355004	**NREC 2a (IA)**	TO-15	MLS	8
10300355005	**LL-NE (IA)**	TO-15	MLS	8
10300355006	**LL-SW (IA)**	TO-15	MLS	8
10300355007	**SREC 1 (VMP-15)**	TO-15	MLS	8
10300355008	**SREC 1a (IA)**	TO-15	MLS	8
10300355009	**QT (VMP-16)**	TO-15	MLS	8
10300355010	**QT Office (IA)**	TO-15	MLS	8
10300355011	**MP (VMP-14)**	TO-15	MLS	8
10300355012	**MP2 (IA)**	TO-15	MLS	8
10300355013	**VH (VMP-13)**	TO-15	MLS	8
10300355014	**VH2 (IA)**	TO-15	MLS	8
10300355015	**JMT (VMP-12)**	TO-15	MLS	8
10300355016	**JMT2 (IA)**	TO-15	MLS	8
10300355017	**PRR Office (VMP-11)**	TO-15	MLS	8
10300355018	**PRR Office 2 (IA)**	TO-15	MLS	8

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: NREC 1 (VMP-17) **Lab ID: 10300355001** Collected: 03/19/15 09:23 Received: 03/23/15 08:50 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		03/26/15 21:43	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		03/26/15 21:43	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.0	1.49		03/26/15 21:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		03/26/15 21:43	156-60-5	
Tetrachloroethene	**23.1**	ug/m3	1.0	1.49		03/26/15 21:43	127-18-4	
1,1,1-Trichloroethane	**4.7**	ug/m3	1.0	1.49		03/26/15 21:43	71-55-6	
Trichloroethene	**46.2**	ug/m3	0.81	1.49		03/26/15 21:43	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		03/26/15 21:43	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: NREC 1a (IA) **Lab ID: 10300355002** Collected: 03/19/15 09:22 Received: 03/23/15 08:50 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		03/26/15 22:13	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		03/26/15 22:13	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.0	1.49		03/26/15 22:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		03/26/15 22:13	156-60-5	
Tetrachloroethene	**27.2**	ug/m3	1.0	1.49		03/26/15 22:13	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.0	1.49		03/26/15 22:13	71-55-6	
Trichloroethene	**1.3**	ug/m3	0.81	1.49		03/26/15 22:13	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		03/26/15 22:13	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: NREC 2 (VMP-18) **Lab ID: 10300355003** Collected: 03/19/15 09:26 Received: 03/23/15 08:50 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		03/26/15 22:45	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.1	1.39		03/26/15 22:45	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.8	1.39		03/26/15 22:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.39		03/26/15 22:45	156-60-5	
Tetrachloroethene	**35.6**	ug/m3	0.96	1.39		03/26/15 22:45	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	0.97	1.39		03/26/15 22:45	71-55-6	
Trichloroethene	**1.6**	ug/m3	0.76	1.39		03/26/15 22:45	79-01-6	
Vinyl chloride	ND	ug/m3	0.36	1.39		03/26/15 22:45	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: NREC 2a (IA) **Lab ID: 10300355004** Collected: 03/19/15 09:25 Received: 03/23/15 08:50 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		03/26/15 17:36	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		03/26/15 17:36	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.0	1.49		03/26/15 17:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		03/26/15 17:36	156-60-5	
Tetrachloroethene	**34.9**	ug/m3	1.0	1.49		03/26/15 17:36	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.0	1.49		03/26/15 17:36	71-55-6	
Trichloroethene	**1.3**	ug/m3	0.81	1.49		03/26/15 17:36	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		03/26/15 17:36	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: LL-NE (IA) **Lab ID: 10300355005** Collected: 03/19/15 09:32 Received: 03/23/15 08:50 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		03/26/15 20:38	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		03/26/15 20:38	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.0	1.49		03/26/15 20:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		03/26/15 20:38	156-60-5	
Tetrachloroethene	**16.2**	ug/m3	1.0	1.49		03/26/15 20:38	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.0	1.49		03/26/15 20:38	71-55-6	
Trichloroethene	ND	ug/m3	0.81	1.49		03/26/15 20:38	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		03/26/15 20:38	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: LL-SW (IA) **Lab ID: 10300355006** Collected: 03/19/15 09:34 Received: 03/23/15 08:50 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		03/27/15 01:10	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		03/27/15 01:10	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.0	1.49		03/27/15 01:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		03/27/15 01:10	156-60-5	
Tetrachloroethene	**34.7**	ug/m3	1.0	1.49		03/27/15 01:10	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.0	1.49		03/27/15 01:10	71-55-6	
Trichloroethene	**1.7**	ug/m3	0.81	1.49		03/27/15 01:10	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		03/27/15 01:10	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: SREC 1 (VMP-15) **Lab ID: 10300355007** Collected: 03/19/15 09:37 Received: 03/23/15 08:50 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		03/26/15 18:05	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.44		03/26/15 18:05	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.9	1.44		03/26/15 18:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		03/26/15 18:05	156-60-5	
Tetrachloroethene	**36.8**	ug/m3	0.99	1.44		03/26/15 18:05	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.0	1.44		03/26/15 18:05	71-55-6	
Trichloroethene	**57.9**	ug/m3	0.79	1.44		03/26/15 18:05	79-01-6	
Vinyl chloride	ND	ug/m3	0.37	1.44		03/26/15 18:05	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: SREC 1a (IA) **Lab ID: 10300355008** Collected: 03/19/15 09:38 Received: 03/23/15 08:50 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		03/27/15 00:14	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.1	1.39		03/27/15 00:14	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.8	1.39		03/27/15 00:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.39		03/27/15 00:14	156-60-5	
Tetrachloroethene	**35.1**	ug/m3	0.96	1.39		03/27/15 00:14	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	0.97	1.39		03/27/15 00:14	71-55-6	
Trichloroethene	**1.6**	ug/m3	0.76	1.39		03/27/15 00:14	79-01-6	
Vinyl chloride	ND	ug/m3	0.36	1.39		03/27/15 00:14	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: QT (VMP-16) **Lab ID: 10300355009** Collected: 03/19/15 09:50 Received: 03/23/15 08:50 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		03/26/15 17:08	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		03/26/15 17:08	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.7	1.34		03/26/15 17:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		03/26/15 17:08	156-60-5	
Tetrachloroethene	**43.3**	ug/m3	0.92	1.34		03/26/15 17:08	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	0.94	1.34		03/26/15 17:08	71-55-6	
Trichloroethene	**1.5**	ug/m3	0.73	1.34		03/26/15 17:08	79-01-6	
Vinyl chloride	ND	ug/m3	0.35	1.34		03/26/15 17:08	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: QT Office (IA) **Lab ID: 10300355010** Collected: 03/19/15 09:52 Received: 03/23/15 08:50 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		03/26/15 19:03	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.3	1.55		03/26/15 19:03	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.1	1.55		03/26/15 19:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.55		03/26/15 19:03	156-60-5	
Tetrachloroethene	**118**	ug/m3	1.1	1.55		03/26/15 19:03	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1.55		03/26/15 19:03	71-55-6	
Trichloroethene	**1.4**	ug/m3	0.85	1.55		03/26/15 19:03	79-01-6	
Vinyl chloride	ND	ug/m3	0.40	1.55		03/26/15 19:03	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: MP (VMP-14) **Lab ID: 10300355011** Collected: 03/19/15 09:55 Received: 03/23/15 08:50 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroethane	ND	ug/m3	0.87	1.61		03/26/15 16:40	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.3	1.61		03/26/15 16:40	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.2	1.61		03/26/15 16:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.61		03/26/15 16:40	156-60-5	
Tetrachloroethene	**29.9**	ug/m3	1.1	1.61		03/26/15 16:40	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1.61		03/26/15 16:40	71-55-6	
Trichloroethene	**4.9**	ug/m3	0.88	1.61		03/26/15 16:40	79-01-6	
Vinyl chloride	ND	ug/m3	0.42	1.61		03/26/15 16:40	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: MP2 (IA) **Lab ID: 10300355012** Collected: 03/19/15 09:54 Received: 03/23/15 08:50 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		03/26/15 23:46	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		03/26/15 23:46	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.0	1.49		03/26/15 23:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		03/26/15 23:46	156-60-5	
Tetrachloroethene	**5.4**	ug/m3	1.0	1.49		03/26/15 23:46	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.0	1.49		03/26/15 23:46	71-55-6	
Trichloroethene	ND	ug/m3	0.81	1.49		03/26/15 23:46	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		03/26/15 23:46	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: VH (VMP-13) **Lab ID: 10300355013** Collected: 03/19/15 10:06 Received: 03/23/15 08:50 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		03/26/15 18:35	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.3	1.55		03/26/15 18:35	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.1	1.55		03/26/15 18:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.55		03/26/15 18:35	156-60-5	
Tetrachloroethene	**21.2**	ug/m3	1.1	1.55		03/26/15 18:35	127-18-4	
1,1,1-Trichloroethane	**13.5**	ug/m3	1.1	1.55		03/26/15 18:35	71-55-6	
Trichloroethene	**340**	ug/m3	8.5	15.5		03/27/15 11:53	79-01-6	
Vinyl chloride	ND	ug/m3	0.40	1.55		03/26/15 18:35	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: VH2 (IA) **Lab ID: 10300355014** Collected: 03/19/15 10:11 Received: 03/23/15 08:50 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		03/26/15 19:33	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.3	1.55		03/26/15 19:33	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.1	1.55		03/26/15 19:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.55		03/26/15 19:33	156-60-5	
Tetrachloroethene	**12.6**	ug/m3	1.1	1.55		03/26/15 19:33	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1.55		03/26/15 19:33	71-55-6	
Trichloroethene	**2.8**	ug/m3	0.85	1.55		03/26/15 19:33	79-01-6	
Vinyl chloride	ND	ug/m3	0.40	1.55		03/26/15 19:33	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: JMT (VMP-12) **Lab ID: 10300355015** Collected: 03/19/15 10:12 Received: 03/23/15 08:50 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		03/26/15 23:18	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		03/26/15 23:18	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.7	1.34		03/26/15 23:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		03/26/15 23:18	156-60-5	
Tetrachloroethene	**4.1**	ug/m3	0.92	1.34		03/26/15 23:18	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	0.94	1.34		03/26/15 23:18	71-55-6	
Trichloroethene	**6.6**	ug/m3	0.73	1.34		03/26/15 23:18	79-01-6	
Vinyl chloride	ND	ug/m3	0.35	1.34		03/26/15 23:18	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: JMT2 (IA) **Lab ID: 10300355016** Collected: 03/19/15 10:14 Received: 03/23/15 08:50 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		03/26/15 15:43	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.44		03/26/15 15:43	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.9	1.44		03/26/15 15:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		03/26/15 15:43	156-60-5	
Tetrachloroethene	ND	ug/m3	0.99	1.44		03/26/15 15:43	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.0	1.44		03/26/15 15:43	71-55-6	
Trichloroethene	ND	ug/m3	0.79	1.44		03/26/15 15:43	79-01-6	
Vinyl chloride	ND	ug/m3	0.37	1.44		03/26/15 15:43	75-01-4	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: PRR Office (VMP-11) **Lab ID: 10300355017** Collected: 03/19/15 10:24 Received: 03/23/15 08:50 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		03/27/15 00:42	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.3	1.55		03/27/15 00:42	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.1	1.55		03/27/15 00:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.55		03/27/15 00:42	156-60-5	
Tetrachloroethene	**14.5**	ug/m3	1.1	1.55		03/27/15 00:42	127-18-4	
1,1,1-Trichloroethane	**15.0**	ug/m3	1.1	1.55		03/27/15 00:42	71-55-6	
Trichloroethene	**368**	ug/m3	8.5	15.5		03/27/15 12:17	79-01-6	
Vinyl chloride	ND	ug/m3	0.40	1.55		03/27/15 00:42	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10300355

Sample: PRR Office 2 (IA) **Lab ID: 10300355018** Collected: 03/19/15 10:26 Received: 03/23/15 08:50 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroethane	ND	ug/m3	0.87	1.61		03/26/15 16:12	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.3	1.61		03/26/15 16:12	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.2	1.61		03/26/15 16:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.61		03/26/15 16:12	156-60-5	
Tetrachloroethene	**2.9**	ug/m3	1.1	1.61		03/26/15 16:12	127-18-4	IS
1,1,1-Trichloroethane	ND	ug/m3	1.1	1.61		03/26/15 16:12	71-55-6	
Trichloroethene	ND	ug/m3	0.88	1.61		03/26/15 16:12	79-01-6	
Vinyl chloride	ND	ug/m3	0.42	1.61		03/26/15 16:12	75-01-4	

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QUALITY CONTROL DATA

Project: PRR
Pace Project No.: 10300355

QC Batch: AIR/22846 — Analysis Method: TO-15
QC Batch Method: TO-15 — Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10300355001, 10300355002, 10300355003, 10300355004, 10300355005, 10300355006, 10300355007, 10300355008, 10300355009, 10300355010, 10300355011, 10300355012, 10300355013, 10300355014, 10300355015, 10300355016, 10300355017, 10300355018

METHOD BLANK: 1926311 — Matrix: Air
Associated Lab Samples: 10300355001, 10300355002, 10300355003, 10300355004, 10300355005, 10300355006, 10300355007, 10300355008, 10300355009, 10300355010, 10300355011, 10300355012, 10300355013, 10300355014, 10300355015, 10300355016, 10300355017, 10300355018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.70	03/26/15 15:04	
1,1-Dichloroethane	ug/m3	ND	0.82	03/26/15 15:04	
Chloroethane	ug/m3	ND	0.54	03/26/15 15:04	
cis-1,2-Dichloroethene	ug/m3	ND	2.0	03/26/15 15:04	
Tetrachloroethene	ug/m3	ND	0.69	03/26/15 15:04	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	03/26/15 15:04	
Trichloroethene	ug/m3	ND	0.55	03/26/15 15:04	
Vinyl chloride	ug/m3	ND	0.26	03/26/15 15:04	

LABORATORY CONTROL SAMPLE: 1926312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	57.4	104	72-140	
1,1-Dichloroethane	ug/m3	41.2	40.4	98	68-137	
Chloroethane	ug/m3	26.8	22.5	84	71-129	
cis-1,2-Dichloroethene	ug/m3	40.3	36.7	91	64-137	
Tetrachloroethene	ug/m3	69	79.0	115	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	38.2	95	61-140	
Trichloroethene	ug/m3	54.6	48.3	88	70-134	
Vinyl chloride	ug/m3	26	20.5	79	72-129	

SAMPLE DUPLICATE: 1926788

Parameter	Units	10300355014 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	12.6	11.2	12	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	2.8	2.7	3	25	
Vinyl chloride	ug/m3	ND	ND		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
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QUALIFIERS

Project: PRR
Pace Project No.: 10300355

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

ANALYTE QUALIFIERS

IS	The internal standard recovery associated with this result exceeds the lower control limit. The reported result should be considered an estimated value.

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PRR
Pace Project No.: 10300355

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10300355001	**NREC 1 (VMP-17)**	TO-15	AIR/22846		
10300355002	**NREC 1a (IA)**	TO-15	AIR/22846		
10300355003	**NREC 2 (VMP-18)**	TO-15	AIR/22846		
10300355004	**NREC 2a (IA)**	TO-15	AIR/22846		
10300355005	**LL-NE (IA)**	TO-15	AIR/22846		
10300355006	**LL-SW (IA)**	TO-15	AIR/22846		
10300355007	**SREC 1 (VMP-15)**	TO-15	AIR/22846		
10300355008	**SREC 1a (IA)**	TO-15	AIR/22846		
10300355009	**QT (VMP-16)**	TO-15	AIR/22846		
10300355010	**QT Office (IA)**	TO-15	AIR/22846		
10300355011	**MP (VMP-14)**	TO-15	AIR/22846		
10300355012	**MP2 (IA)**	TO-15	AIR/22846		
10300355013	**VH (VMP-13)**	TO-15	AIR/22846		
10300355014	**VH2 (IA)**	TO-15	AIR/22846		
10300355015	**JMT (VMP-12)**	TO-15	AIR/22846		
10300355016	**JMT2 (IA)**	TO-15	AIR/22846		
10300355017	**PRR Office (VMP-11)**	TO-15	AIR/22846		
10300355018	**PRR Office 2 (IA)**	TO-15	AIR/22846		

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US EPA ARCHIVE DOCUMENT

10504355

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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.

18538

Section A Required Client Information:

Company: Prairie Ronde Realty Co
Address: 415 E Prairie Ronde ST, Dowagiac, MI 49047
Email To: davidmursch@earthlink.net
Phone: 269-782-2141 Fax:
Requested Due Date/TAT: 10 day

Section B Required Project Information:

Report To: R. David Mursch
Copy To: Brian DeLong
Purchase Order No.: NA
Project Name: PRR
Project Number: NA

Section C Invoice Information:

Attention: Brian DeLong
Company Name: Prairie Ronde Realty Co
Address: 415 E Prairie Ronde St, Dowagiac, MI. 49047
Pace Quote Reference:
Pace Project Manager/Sales Rep. Carolynne Trout
Pace Profile #:

Program: UST / Superfund / Emissions / Clean Air Act / Voluntary Clean Up / Dry Clean / RCRA / Other

Location of Sampling by State: MI

Reporting Units: ug/m³ X mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level: II. ___ III. ___ IV. ___ Other ___

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED: COMPOSITE START END/GRAB DATE	TIME	COMPOSITE - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	NREC 1 (VMP-17)			3-18-15	10:05	3-19-15	9:23	-30	-05	2807	0295							X			001
2	NREC 1a (IA)			3-18-15	10:03	3-19-15	9:22	-30	-05	1053	0863							X			002
3	NREC 2 (VMP-18)			3-18-15	10:10	3-19-15	9:26	-30	-04	2721	1102							X			003
4	NREC 2a (IA)			3-18-15	10:08	3-19-15	9:23	-27	-02	1264	0231							X			004
5	LL-NE (IA)			3-18-15	10:14	3-19-15	9:32	-30	-05	2713	0272							X			005
6	LL-SW (IA)			3-18-15	10:17	3-19-15	9:34	-28	-05	2701	0350							X			006
7	SREC 1 (VMP-15)			3-18-15	10:23	3-19-15	9:37	-29	-02	2090	1050							X			007
8	SREC 1a (IA)			3-18-15	10:22	3-19-15	9:38	-29	-06	2100	0293							X			008
9	QT (VMP-16)			3-18-15	10:30	3-19-15	9:50	-30	-03	2821	0411							X			009
10	QT office (IA)			3-18-15	10:28	3-19-15	9:52	-30	-04	2180	1083							X			010
11	MP (VMP-14)			3-18-15	10:38	3-19-15	9:55	-30	-07	1080	0235							X			011
12	MP 2 (IA)			3-18-15	10:36	3-19-15	9:54	-29	-05	2809	1028							X			012

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Brian DeLong / PRR	3-19-15		[signature] / PLC	32315	0850	Amg Y/N G Y/N O Y/N
						Y/N Y/N Y/N
						Y/N Y/N Y/N
						Y/N Y/N Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Brian DeLong
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 3-19-15

Temp in °C | Received on Ice | Custody Sealed Cooler | Samples Intact

ORIGINAL

US EPA ARCHIVE DOCUMENT

103 00355

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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.

18539

Section A Required Client Information:

Company: Prairie Ronde Realty Co
Address: 415 E Prairie Ronde ST
Dowagiac, Mi 49047
Email To: davidmvisch@earthlink.net
Phone: 269-782-2141 Fax:
Requested Due Date/TAT: 10 day

Section B Required Project Information:

Report To: R. David Mvisch
Copy To: Brian DeLong
Purchase Order No.: N4
Project Name: PRR
Project Number: NA

Section C Invoice Information:

Attention: Brian DeLong
Company Name: Prairie Ronde Realty Co.
Address: 415 E Prairie Ronde ST, Dowagiac MI 49047
Pace Quote Reference:
Pace Project Manager/Sales Rep. Carolynne Trout
Pace Profile #:

Program: UST / Superfund / Emissions / Clean Air Act / ☒ Voluntary Clean Up / Dry Clean / RCRA / Other____

Location of Sampling by State MI

Reporting Units: ug/m³ ☒ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other_____

Section D Required Client Information

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	TIME	COMPOSITE - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VH (VMP-13)			3-18-15	10:45	3-19-15	10:06	-28	-05	2036	0141							X			013
2	VH 2 (IA)			3-18-15	10:50	3-19-15	10:11	-30	-04	822	0351							X			014
3	JMT (VMP-12)			3-18-15	11:08	3-19-15	10:12	-28	-01	2766	0341							X			015
4	JMT 2 (IA)			3-18-15	11:06	3-19-15	10:14	-29	-02	1196	0219							X			016
5	PRR OFFICE (VMP-11)			3-18-15	11:16	3-19-15	10:24	-26	-04	2377	0750							X			017
6	PRR OFFICE 2 (IA)			3-18-15	11:18	3-19-15	10:26	-30	-06	2718	0150							X			018
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Brian DeLong / PRR	3-19-15		[signature] Pace	32315	0850

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
AMB	Y/N ②	Y/N ②	Y/N ③
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brian DeLong

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY) 3-19-15

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26Dec2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.09	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Prairie Ronde Reality

Project #: WO#: 10300355

10300355

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 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** 3/23/15

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: Air can				11.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
NRec 1	2807	0295	mp	1080	0235
NRec 1a	1053	0863	mp2	2809	1028
NRec 2	2721	1102	vh	2036	0141
NRec 2a	1264	0231	VH2	0822	0351
LL-NE	2713	0272	JMT	2766	0361
LL-SW	2701	0350	JMT 2	1196	0219
SRec 1	2090	1050	PRR office	2377	0750
SRec 1a	2100	0293	PRR office 2	2718	0150
QT	2821	0411			
QT office	2180	1083			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: [signature] **Date:** 3/24/15

ote: 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 old, incorrect preservative, out of temp, incorrect containers)

US EPA ARCHIVE DOCUMENT

Pace Analytical	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/#
6322 3807 6900		
6322 3807 6933		
6322 3807 6911		
6322 3807 6896		
6322 3807 6922		

US EPA ARCHIVE DOCUMENT

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 10, 2015

R.David Mursch
Prairie Ronde Realty Co.
415 E. Prairie Ronde St.
New Baltimore, MI 48047

RE: Project: PRR
Pace Project No.: 10298538

Dear R.David Mursch:
Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2015. 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
carolynne.trout@pacelabs.com
Project Manager

Enclosures

cc: Brian DeLong, Prairie Ronde Realty

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CERTIFICATIONS

Project: PRR
Pace Project No.: 10298538

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

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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SAMPLE SUMMARY

Project: PRR
Pace Project No.: 10298538

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10298538001	**VH (VMP-13)**	Air	03/03/15 09:42	03/05/15 10:15
10298538002	**VH2 (IA)**	Air	03/03/15 09:46	03/05/15 10:15

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SAMPLE ANALYTE COUNT

Project: PRR
Pace Project No.: 10298538

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10298538001	**VH (VMP-13)**	TO-15	AH2	8
10298538002	**VH2 (IA)**	TO-15	AH2	8

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10298538

Sample: VH (VMP-13) **Lab ID: 10298538001** Collected: 03/03/15 09:42 Received: 03/05/15 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroethane	ND	ug/m3	1.9	1.44		03/08/15 14:56	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.44		03/08/15 14:56	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.9	1.44		03/08/15 14:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		03/08/15 14:56	156-60-5	
Tetrachloroethene	**4.1**	ug/m3	0.99	1.44		03/08/15 14:56	127-18-4	
1,1,1-Trichloroethane	**86.0**	ug/m3	1.0	1.44		03/08/15 14:56	71-55-6	
Trichloroethene	**1010**	ug/m3	15.7	28.8		03/09/15 12:02	79-01-6	
Vinyl chloride	ND	ug/m3	0.75	1.44		03/08/15 14:56	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10298538

Sample: VH2 (IA) **Lab ID: 10298538002** Collected: 03/03/15 09:46 Received: 03/05/15 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroethane	ND	ug/m3	2.2	1.61		03/08/15 13:57	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.3	1.61		03/08/15 13:57	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.2	1.61		03/08/15 13:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.61		03/08/15 13:57	156-60-5	
Tetrachloroethene	**3.4**	ug/m3	1.1	1.61		03/08/15 13:57	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1.61		03/08/15 13:57	71-55-6	
Trichloroethene	**3.8**	ug/m3	0.88	1.61		03/08/15 13:57	79-01-6	
Vinyl chloride	ND	ug/m3	0.84	1.61		03/08/15 13:57	75-01-4	

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QUALITY CONTROL DATA

Project: PRR
Pace Project No.: 10298538

QC Batch: AIR/22692 | Analysis Method: TO-15
QC Batch Method: TO-15 | Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10298538001, 10298538002

METHOD BLANK: 1913721 | Matrix: Air
Associated Lab Samples: 10298538001, 10298538002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.70	03/08/15 09:59	
1,1-Dichloroethane	ug/m3	ND	0.82	03/08/15 09:59	
Chloroethane	ug/m3	ND	1.3	03/08/15 09:59	
cis-1,2-Dichloroethene	ug/m3	ND	2.0	03/08/15 09:59	
Tetrachloroethene	ug/m3	ND	0.69	03/08/15 09:59	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	03/08/15 09:59	
Trichloroethene	ug/m3	ND	0.55	03/08/15 09:59	
Vinyl chloride	ug/m3	ND	0.52	03/08/15 09:59	

LABORATORY CONTROL SAMPLE: 1913722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.2	98	72-140	
1,1-Dichloroethane	ug/m3	41.2	40.5	98	68-137	
Chloroethane	ug/m3	26.8	27.5	102	71-129	
cis-1,2-Dichloroethene	ug/m3	40.3	39.5	98	64-137	
Tetrachloroethene	ug/m3	69	77.8	113	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	40.1	99	61-140	
Trichloroethene	ug/m3	54.6	58.8	108	70-134	
Vinyl chloride	ug/m3	26	25.0	96	72-129	

SAMPLE DUPLICATE: 1914126

Parameter	Units	10298538002 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	3.4	3.3	5	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	3.8	3.6	5	25	
Vinyl chloride	ug/m3	ND	ND		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PRR
Pace Project No.: 10298538

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.: 10298538

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10298538001	**VH (VMP-13)**	TO-15	AIR/22692		
10298538002	**VH2 (IA)**	TO-15	AIR/22692		

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US EPA ARCHIVE DOCUMENT

10298538

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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.

14163

Page: 1 of 1

Section A Required Client Information:

Company: Prairie Ronde Realty Co
Address: 415 E Prairie Ronde ST
Dowagiac, MI 49047
Email To: davidmursch@earthlink.net
Phone: 269-782-2141 Fax:
Requested Due Date/TAT: 5 day

Section B Required Project Information:

Report To: R. David Mursch
Copy To: Brian DeLong
Purchase Order No.: NA
Project Name: PRR
Project Number: NA

Section C Invoice Information:

Attention: Brian DeLong
Company Name: Prairie Ronde Realty Co
Address: 415 E Prairie Ronde ST., Dowagiac, MI 49047
Pace Quote Reference:
Pace Project Manager/Sales Rep. Carolynne Trout
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☑ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other____

Location of Sampling by State MI

Reporting Units: ug/m³ ☒ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other_____

Section D Required Client Information

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	TIME	COMPOSITE - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VH (VMP-13)			3-2-15	10:34a	3-3-15	9:42a	-28	-04	0254	0394							X			001
2	VH2 (IA)			3-2-15	10:38a	3-3-15	9:46a	-28	-07	0361	0267							X			002
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Brian DeLong / PRR	3-3-15		[signature] / PACE	3515	1015

SAMPLE CONDITIONS

	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
AmB		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brian DeLong

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY) 3-3-15

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26Dec2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.09	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Prairie Ronde Realty

Project #: WO#:10298538 10298538

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 6322 3807 1107

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 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** 3/5/15

Type of ice Received ☐ Blue ☐ Wet ☒ None

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Media: air can				11.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
VH	0254		0394		
VH2	0361		0267		

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: **Date:** 3/5/15

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

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January 29, 2015

R.David Mursch
Prairie Ronde Realty Co.
415 E. Prairie Ronde St.
New Baltimore, MI 48047

RE: Project: PRR
Pace Project No.: 10294921

Dear R.David Mursch:
Enclosed are the analytical results for sample(s) received by the laboratory on January 23, 2015. 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
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.: 10294921

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

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SAMPLE SUMMARY

Project: PRR
Pace Project No.: 10294921

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10294921001	**VH (VMP-13)**	Air	01/21/15 08:29	01/23/15 09:45
10294921002	**VH2 (IA)**	Air	01/21/15 08:32	01/23/15 09:45
10294921003	**JMT (VMP-12)**	Air	01/21/15 08:46	01/23/15 09:45
10294921004	**SREC 1 (VMP-15)**	Air	01/21/15 08:42	01/23/15 09:45
10294921005	**NREC 1 (VMP-17)**	Air	01/21/15 08:36	01/23/15 09:45
10294921006	**NREC 2 (VMP-18)**	Air	01/21/15 08:40	01/23/15 09:45

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SAMPLE ANALYTE COUNT

Project: PRR
Pace Project No.: 10294921

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10294921001	**VH (VMP-13)**	TO-15	AH2	8
10294921002	**VH2 (IA)**	TO-15	AH2	8
10294921003	**JMT (VMP-12)**	TO-15	AH2	8
10294921004	**SREC 1 (VMP-15)**	TO-15	AH2	8
10294921005	**NREC 1 (VMP-17)**	TO-15	AH2	8
10294921006	**NREC 2 (VMP-18)**	TO-15	AH2	8

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10294921

Sample: VH (VMP-13) **Lab ID: 10294921001** Collected: 01/21/15 08:29 Received: 01/23/15 09:45 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		01/25/15 23:49	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		01/25/15 23:49	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.0	1.49		01/25/15 23:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		01/25/15 23:49	156-60-5	
Tetrachloroethene	**3.4**	ug/m3	2.1	1.49		01/25/15 23:49	127-18-4	
1,1,1-Trichloroethane	**11.4**	ug/m3	1.0	1.49		01/25/15 23:49	71-55-6	
Trichloroethene	**258**	ug/m3	16.3	29.8		01/26/15 00:11	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		01/25/15 23:49	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10294921

Sample: VH2 (IA) **Lab ID: 10294921002** Collected: 01/21/15 08:32 Received: 01/23/15 09:45 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		01/25/15 20:34	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.3	1.55		01/25/15 20:34	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.1	1.55		01/25/15 20:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.55		01/25/15 20:34	156-60-5	
Tetrachloroethene	**2.8**	ug/m3	2.1	1.55		01/25/15 20:34	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1.55		01/25/15 20:34	71-55-6	
Trichloroethene	**6.7**	ug/m3	0.85	1.55		01/25/15 20:34	79-01-6	
Vinyl chloride	ND	ug/m3	0.40	1.55		01/25/15 20:34	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10294921

Sample: JMT (VMP-12) **Lab ID: 10294921003** Collected: 01/21/15 08:46 Received: 01/23/15 09:45 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		01/25/15 22:15	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		01/25/15 22:15	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.0	1.49		01/25/15 22:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		01/25/15 22:15	156-60-5	
Tetrachloroethene	ND	ug/m3	2.1	1.49		01/25/15 22:15	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.0	1.49		01/25/15 22:15	71-55-6	
Trichloroethene	**7.2**	ug/m3	0.81	1.49		01/25/15 22:15	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		01/25/15 22:15	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10294921

Sample: SREC 1 (VMP-15) **Lab ID: 10294921004** Collected: 01/21/15 08:42 Received: 01/23/15 09:45 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		01/25/15 23:02	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.1	1.39		01/25/15 23:02	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.8	1.39		01/25/15 23:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.39		01/25/15 23:02	156-60-5	
Tetrachloroethene	**13.7**	ug/m3	1.9	1.39		01/25/15 23:02	127-18-4	
1,1,1-Trichloroethane	**1.0**	ug/m3	0.97	1.39		01/25/15 23:02	71-55-6	
Trichloroethene	**83.8**	ug/m3	0.76	1.39		01/25/15 23:02	79-01-6	
Vinyl chloride	ND	ug/m3	0.36	1.39		01/25/15 23:02	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10294921

Sample: NREC 1 (VMP-17) **Lab ID: 10294921005** Collected: 01/21/15 08:36 Received: 01/23/15 09:45 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		01/25/15 21:23	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		01/25/15 21:23	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.0	1.49		01/25/15 21:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		01/25/15 21:23	156-60-5	
Tetrachloroethene	**23.1**	ug/m3	2.1	1.49		01/25/15 21:23	127-18-4	
1,1,1-Trichloroethane	**3.6**	ug/m3	1.0	1.49		01/25/15 21:23	71-55-6	
Trichloroethene	**43.8**	ug/m3	0.81	1.49		01/25/15 21:23	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		01/25/15 21:23	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10294921

Sample: NREC 2 (VMP-18) **Lab ID: 10294921006** Collected: 01/21/15 08:40 Received: 01/23/15 09:45 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		01/25/15 22:38	75-00-3	
1,1-Dichloroethane	**19.3**	ug/m3	1.2	1.44		01/25/15 22:38	75-34-3	
cis-1,2-Dichloroethene	**202**	ug/m3	58.0	28.8		01/26/15 16:56	156-59-2	
trans-1,2-Dichloroethene	**6.2**	ug/m3	1.2	1.44		01/25/15 22:38	156-60-5	
Tetrachloroethene	**52.6**	ug/m3	2.0	1.44		01/25/15 22:38	127-18-4	
1,1,1-Trichloroethane	**94.8**	ug/m3	1.0	1.44		01/25/15 22:38	71-55-6	
Trichloroethene	**3010**	ug/m3	15.7	28.8		01/26/15 16:56	79-01-6	
Vinyl chloride	ND	ug/m3	0.37	1.44		01/25/15 22:38	75-01-4	

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QUALITY CONTROL DATA

Project: PRR
Pace Project No.: 10294921

QC Batch: AIR/22343 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10294921001, 10294921002, 10294921003, 10294921004, 10294921005, 10294921006

METHOD BLANK: 1887903 Matrix: Air
Associated Lab Samples: 10294921001, 10294921002, 10294921003, 10294921004, 10294921005, 10294921006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.70	01/25/15 15:57	
1,1-Dichloroethane	ug/m3	ND	0.82	01/25/15 15:57	
Chloroethane	ug/m3	ND	0.54	01/25/15 15:57	
cis-1,2-Dichloroethene	ug/m3	ND	2.0	01/25/15 15:57	
Tetrachloroethene	ug/m3	ND	1.4	01/25/15 15:57	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	01/25/15 15:57	
Trichloroethene	ug/m3	ND	0.55	01/25/15 15:57	
Vinyl chloride	ug/m3	ND	0.26	01/25/15 15:57	

LABORATORY CONTROL SAMPLE: 1887904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	58.8	106	72-140	
1,1-Dichloroethane	ug/m3	41.2	44.1	107	68-137	
Chloroethane	ug/m3	26.8	27.7	103	71-129	
cis-1,2-Dichloroethene	ug/m3	40.3	45.6	113	64-137	
Tetrachloroethene	ug/m3	69	83.0	120	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	45.4	113	61-140	
Trichloroethene	ug/m3	54.6	57.2	105	70-134	
Vinyl chloride	ug/m3	26	26.7	103	72-129	

SAMPLE DUPLICATE: 1888332

Parameter	Units	10294921002 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	2.8	2.3	17	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	6.7	6.5	3	25	
Vinyl chloride	ug/m3	ND	ND		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: PRR
Pace Project No.: 10294921

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.: 10294921

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10294921001	**VH (VMP-13)**	TO-15	AIR/22343		
10294921002	**VH2 (IA)**	TO-15	AIR/22343		
10294921003	**JMT (VMP-12)**	TO-15	AIR/22343		
10294921004	**SREC 1 (VMP-15)**	TO-15	AIR/22343		
10294921005	**NREC 1 (VMP-17)**	TO-15	AIR/22343		
10294921006	**NREC 2 (VMP-18)**	TO-15	AIR/22343		

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US EPA ARCHIVE DOCUMENT

10294921

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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.

16787

Page: 1 of 1

Section A Required Client Information:

Company: Prairie Ronde Realty
Address: 415 E Prairie Ronde St, Dowagiac MI 49047
Email To: dandmursch@earthlink.net
Phone: 269-782-2141 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: R. David Mursch
Copy To: Brian DeLong
Purchase Order No.: NA
Project Name: PRR
Project Number: NA

Section C Invoice Information:

Attention: Brian DeLong
Company Name: Prairie Ronde Realty Co
Address: 415 E Prairie Ronde St., Dowagiac, MI 49047
Pace Quote Reference:
Pace Project Manager/Sales Rep. Carolynne Trout
Pace Profile #:

Program: UST / Superfund / Emissions / Clean Air Act / ✓ Voluntary Clean Up / Dry Clean / RCRA / Other

Location of Sampling by State: MI

Reporting Units: ug/m³ X / mg/m³ / PPBV / PPMV / Other

Report Level II. III. IV. Other

Valid Media Codes: MEDIA / CODE — Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED: COMPOSITE START END/GRAB DATE	TIME	COMPOSITE - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VH (VMP-13)			1-20-15	9:45a	1-21-15	8:29a	-30	-04	0429	1008							X			001
2	VH 2 (IA)			1-20-15	9:50a	1-21-15	8:32a	-28	-04	0046	1045							X			002
3	JMT (VMP-12)			1-20-15	10:30	1-21-15	8:46	-30	-04	0241	0305							X			003
4	SREC 1 (VMP-15)			1-20-15	10:17	1-21-15	8:42	-28	-02	0291	0512							X			004
5	NREC 1 (VMP-17)			1-20-15	10:01	1-21-15	8:36	-30	-05	1524	0229							X			005
6	NREC 2 (VMP-18)			1-20-15	10:10	1-21-15	8:40	-27	-04	0720	0242							X			006
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Brian DeLong / PRR	1-21-15		[signature] / Pace	1/23/15	0945

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
[illegible]	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brian DeLong

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 1-21-15

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26Dec2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.09	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: PRAIRIE REALTY

Project #: WO# : 10294921

10294921

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other: _____

Tracking Number: 6146178822 90, 6146178823 05

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 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** 2/12/15

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: air can				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
VH	0429		1008		
VH2	0046		1045		
JMT	0241		0365		
SPEC1	0291		0512		
~~Nrec1~~ Nrec1	1524		0229		
Nrec 2	0720		0242		

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [signature] **Date:** 1/26/15

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

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January 15, 2015

R.David Mursch
Prairie Ronde Realty Co.
415 E. Prairie Ronde St.
New Baltimore, MI 48047

RE: Project: PRR
Pace Project No.: 10293753

Dear R.David Mursch:
Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2015. 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
carolynne.trout@pacelabs.com
Project Manager

Enclosures

cc: Brian DeLong, Prairie Ronde Realty

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CERTIFICATIONS

Project: PRR
Pace Project No.: 10293753

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

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SAMPLE SUMMARY

Project: PRR
Pace Project No.: 10293753

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10293753001	**VH (VMP-13)**	Air	01/07/15 08:30	01/12/15 09:30
10293753002	**VH2 (IA)**	Air	01/07/15 08:33	01/12/15 09:30

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SAMPLE ANALYTE COUNT

Project: PRR
Pace Project No.: 10293753

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10293753001	**VH (VMP-13)**	TO-15	DL1	8
10293753002	**VH2 (IA)**	TO-15	DL1	8

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10293753

Sample: VH (VMP-13) **Lab ID: 10293753001** Collected: 01/07/15 08:30 Received: 01/12/15 09:30 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		01/12/15 22:20	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.1	1.39		01/12/15 22:20	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.8	1.39		01/12/15 22:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.39		01/12/15 22:20	156-60-5	
Tetrachloroethene	**4.6**	ug/m3	0.96	1.39		01/12/15 22:20	127-18-4	
1,1,1-Trichloroethane	**57.4**	ug/m3	0.97	1.39		01/12/15 22:20	71-55-6	
Trichloroethene	**1600**	ug/m3	15.2	27.8		01/13/15 22:32	79-01-6	
Vinyl chloride	ND	ug/m3	0.36	1.39		01/12/15 22:20	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10293753

Sample: VH2 (IA) **Lab ID: 10293753002** Collected: 01/07/15 08:33 Received: 01/12/15 09:30 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		01/12/15 22:49	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		01/12/15 22:49	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.0	1.49		01/12/15 22:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		01/12/15 22:49	156-60-5	
Tetrachloroethene	**2.2**	ug/m3	1.0	1.49		01/12/15 22:49	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.0	1.49		01/12/15 22:49	71-55-6	
Trichloroethene	**2.9**	ug/m3	0.81	1.49		01/12/15 22:49	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		01/12/15 22:49	75-01-4	

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QUALITY CONTROL DATA

Project: PRR
Pace Project No.: 10293753

QC Batch: AIR/22233 | Analysis Method: TO-15
QC Batch Method: TO-15 | Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10293753001, 10293753002

METHOD BLANK: 1880033 | Matrix: Air
Associated Lab Samples: 10293753001, 10293753002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.70	01/12/15 16:50	
1,1-Dichloroethane	ug/m3	ND	0.82	01/12/15 16:50	
Chloroethane	ug/m3	ND	0.54	01/12/15 16:50	
cis-1,2-Dichloroethene	ug/m3	ND	2.0	01/12/15 16:50	
Tetrachloroethene	ug/m3	ND	0.69	01/12/15 16:50	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	01/12/15 16:50	
Trichloroethene	ug/m3	ND	0.55	01/12/15 16:50	
Vinyl chloride	ug/m3	ND	0.26	01/12/15 16:50	

LABORATORY CONTROL SAMPLE: 1880034

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	56.9	103	72-140	
1,1-Dichloroethane	ug/m3	41.2	41.5	101	68-137	
Chloroethane	ug/m3	26.8	27.8	104	71-129	
cis-1,2-Dichloroethene	ug/m3	40.3	43.9	109	64-137	
Tetrachloroethene	ug/m3	69	76.3	111	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	39.1	97	61-140	
Trichloroethene	ug/m3	54.6	55.8	102	70-134	
Vinyl chloride	ug/m3	26	28.8	111	72-129	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: PRR
Pace Project No.: 10293753

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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(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PRR
Pace Project No.: 10293753

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10293753001	**VH (VMP-13)**	TO-15	AIR/22233		
10293753002	**VH2 (IA)**	TO-15	AIR/22233		

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US EPA ARCHIVE DOCUMENT

10293753

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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.

16700

Page: 1 of 1

Section A Required Client Information:

Company: Prairie Ronde Realty Co.
Address: 415 E Prairie Ronde St. Dowagiac, Mi. 49047
Email To: davidmursch@earthlink.net
Phone: 269-782-2141 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: R. David Mursch
Copy To: Brian DeLong
Purchase Order No.: NA
Project Name: PRR
Project Number: NA

Section C Invoice Information:

Attention: Brian DeLong
Company Name: Prairie Ronde Realty Co.
Address: 415 E Prairie Ronde St. Dowagiac, Mi. 49047
Pace Quote Reference:
Pace Project Manager/Sales Rep. Carolynne Trout
Pace Profile #:

Program: UST Superfund Emissions Clean Air Act ✓ Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State MI

Reporting Units: ug/m³ ✓ mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

Section D Required Client Information

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VH (VMP-13)			1-6-15	9:37a	1-7-15	8:30a	-29	-02	1768	1100							X			001
2	VH 2 (IA)			1-6-15	9:43a	1-7-15	8:33a	-30	-04	2024	0286							X			002
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Brian DeLong / PRR	1-7-15		[signature]	1/12/15	0930

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
Amb	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26Dec2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.09	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Prairie Rode Realty

Project #: WO#: 10293753

10293753

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 614617877935

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 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** 1/12/15

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: air can				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
VH	1768		1100		
VH2	2024		0286		

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: **Date:** 1/12/15

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

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

February 25, 2015

R.David Mursch
Prairie Ronde Realty Co.
415 E. Prairie Ronde St.
New Baltimore, MI 48047

RE: Project: PRR-Rush
Pace Project No.: 10297363

Dear R.David Mursch:
Enclosed are the analytical results for sample(s) received by the laboratory on February 20, 2015. 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
carolynne.trout@pacelabs.com
Project Manager

Enclosures

cc: Brian DeLong, Prairie Ronde Realty

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CERTIFICATIONS

Project: PRR-Rush
Pace Project No.: 10297363

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

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SAMPLE SUMMARY

Project: PRR-Rush
Pace Project No.: 10297363

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10297363001	**VH (VMP-13)**	Air	02/18/15 09:23	02/20/15 10:30
10297363002	**VH 2 (IA)**	Air	02/18/15 09:26	02/20/15 10:30

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SAMPLE ANALYTE COUNT

Project: PRR-Rush
Pace Project No.: 10297363

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10297363001	**VH (VMP-13)**	TO-15	DR1, MJL	8
10297363002	**VH 2 (IA)**	TO-15	DR1	8

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ANALYTICAL RESULTS

Project: PRR-Rush
Pace Project No.: 10297363

Sample: VH (VMP-13) **Lab ID: 10297363001** Collected: 02/18/15 09:23 Received: 02/20/15 10:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroethane	ND	ug/m3	1.6	2.88		02/24/15 21:17	75-00-3	
1,1-Dichloroethane	ND	ug/m3	2.4	2.88		02/24/15 21:17	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	5.8	2.88		02/24/15 21:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.3	2.88		02/24/15 21:17	156-60-5	
Tetrachloroethene	**4.1**	ug/m3	2.0	2.88		02/24/15 21:17	127-18-4	
1,1,1-Trichloroethane	**78.5**	ug/m3	2.0	2.88		02/24/15 21:17	71-55-6	
Trichloroethene	**626**	ug/m3	15.7	28.8		02/25/15 13:35	79-01-6	
Vinyl chloride	ND	ug/m3	0.75	2.88		02/24/15 21:17	75-01-4	

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ANALYTICAL RESULTS

Project: PRR-Rush
Pace Project No.: 10297363

Sample: VH 2 (IA) **Lab ID: 10297363002** Collected: 02/18/15 09:26 Received: 02/20/15 10:30 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		02/24/15 21:43	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		02/24/15 21:43	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.0	1.49		02/24/15 21:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		02/24/15 21:43	156-60-5	
Tetrachloroethene	**1.5**	ug/m3	1.0	1.49		02/24/15 21:43	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.0	1.49		02/24/15 21:43	71-55-6	
Trichloroethene	**3.9**	ug/m3	0.81	1.49		02/24/15 21:43	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		02/24/15 21:43	75-01-4	

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Minneapolis, MN 55414
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QUALITY CONTROL DATA

Project: PRR-Rush
Pace Project No.: 10297363

QC Batch: AIR/22578 | Analysis Method: TO-15
QC Batch Method: TO-15 | Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10297363001, 10297363002

METHOD BLANK: 1905922 | Matrix: Air
Associated Lab Samples: 10297363001, 10297363002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.70	02/24/15 09:59	
1,1-Dichloroethane	ug/m3	ND	0.82	02/24/15 09:59	
Chloroethane	ug/m3	ND	0.54	02/24/15 09:59	
cis-1,2-Dichloroethene	ug/m3	ND	2.0	02/24/15 09:59	
Tetrachloroethene	ug/m3	ND	0.69	02/24/15 09:59	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	02/24/15 09:59	
Trichloroethene	ug/m3	ND	0.55	02/24/15 09:59	
Vinyl chloride	ug/m3	ND	0.26	02/24/15 09:59	

LABORATORY CONTROL SAMPLE: 1905923

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	55.6	100	72-140	
1,1-Dichloroethane	ug/m3	41.2	38.5	94	68-137	
Chloroethane	ug/m3	26.8	25.1	94	71-129	
cis-1,2-Dichloroethene	ug/m3	40.3	40.0	99	64-137	
Tetrachloroethene	ug/m3	69	70.0	101	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	39.9	99	61-140	
Trichloroethene	ug/m3	54.6	58.8	108	70-134	
Vinyl chloride	ug/m3	26	27.1	104	72-129	

SAMPLE DUPLICATE: 1905992

Parameter	Units	60188146001 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	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: PRR-Rush
Pace Project No.: 10297363

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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1700 Elm Street - Suite 200
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(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PRR-Rush
Pace Project No.: 10297363

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10297363001	**VH (VMP-13)**	TO-15	AIR/22578		
10297363002	**VH 2 (IA)**	TO-15	AIR/22578		

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US EPA ARCHIVE DOCUMENT

10271303

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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.

14034

Page: 1 of 1

Section A Required Client Information:
- Company: Prairie Ronde Realty
- Address: 415 E Prairie Ronde ST, Dowagiac, MI 49047
- Email To: davidmursch@earthlink.net
- Phone: 269-782-2141 Fax:
- Requested Due Date/TAT:

Section B Required Project Information:
- Report To: R David Mursch
- Copy To: Brian DeLong
- Purchase Order No.: NA
- Project Name: PRR
- Project Number: NA

Section C Invoice Information:
- Attention: Brian DeLong
- Company Name: Prairie Ronde Realty
- Address: 415 E Prairie Ronde ST, Dowagiac, MI 49047
- Pace Quote Reference:
- Pace Project Manager/Sales Rep: Carolynne Trout
- Pace Profile #:

Program: UST / Superfund / Emissions / Clean Air Act / ✓ Voluntary Clean Up / Dry Clean / RCRA / Other

Location of Sampling by State: MI

Reporting Units: ug/m³ ✓ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other___

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start End/Grab DATE	TIME	Composite - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VH (VMP-13)			2-17-15	9:32a	2-18-15	9:23a	-29	-01	2328	0541							X			001
2	VH 2 (IA)			2-17-15	9:36a	2-18-15	9:26a	-29	-04	2187	0001							X			
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments:

TAT changed to Rush per D. Mursch 2/24/15 na phone call. [illegible]

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Brian DeLong / PRR	2-18-15		[illegible] Pace	2/20/15	1630

SAMPLE CONDITIONS

	Received on Ice	Custody Sealed Cooler	Samples Intact
Temp in °C: AMB	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brian DeLong

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 2-18-15

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26Dec2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.09	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Prairie Ronde

Project #: WO#: 10297363

10297363

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Tracking Number: 6322 3806 2462

Custody Seal on Cooler/Box Present? [ ] Yes [X] No **Seals Intact?** [ ] Yes [X] No

Optional: Proj. Due Date: Proj. Name:

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] Foam [ ] None [ ] Other: **Temp Blank rec:** [ ] Yes [X] No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermom. Used:** [ ] B88A912167504 [ ] B88A9132521491 [ ] 72337080 [ ] 80512447

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** NB 2/20/15

Type of ice Received [ ] Blue [ ] Wet [X] None

				Comments:
Chain of Custody Present?	[X] Yes	[ ] No	[ ] N/A	1.
Chain of Custody Filled Out?	[X] Yes	[ ] No	[ ] N/A	2.
Chain of Custody Relinquished?	[X] Yes	[ ] No	[ ] N/A	3.
Sampler Name and/or Signature on COC?	[X] Yes	[ ] No	[ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes	[ ] No	[ ] N/A	5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No	[ ] N/A	6.
Rush Turn Around Time Requested?	[ ] Yes	[X] No	[ ] N/A	7.
Sufficient Volume?	[X] Yes	[ ] No	[ ] N/A	8.
Correct Containers Used?	[X] Yes	[ ] No	[ ] N/A	9.
-Pace Containers Used?	[X] Yes	[ ] No	[ ] N/A	
Containers Intact?	[X] Yes	[ ] No	[ ] N/A	10.
Media: Air Can				11.
Sample Labels Match COC?	[ ] Yes	[ ] No	[ ] N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
UMP-13	PACE - 2329		PC 0541		
VH2	PACE 2182		PC 0001		

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: CM **Date:** 2/23/15

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

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

February 10, 2015

R.David Mursch
Prairie Ronde Realty Co.
415 E. Prairie Ronde St.
New Baltimore, MI 48047

RE: Project: PRR
Pace Project No.: 10296123

Dear R.David Mursch:
Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2015. 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
carolynne.trout@pacelabs.com
Project Manager

Enclosures

cc: Brian DeLong, Prairie Ronde Realty

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CERTIFICATIONS

Project: PRR
Pace Project No.: 10296123

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

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SAMPLE SUMMARY

Project: PRR
Pace Project No.: 10296123

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10296123001	**VH (VMP-13)**	Air	02/04/15 10:02	02/06/15 09:45
10296123002	**VH2 (IA)**	Air	02/04/15 10:06	02/06/15 09:45

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SAMPLE ANALYTE COUNT

Project: PRR
Pace Project No.: 10296123

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10296123001	**VH (VMP-13)**	TO-15	MJL	8
10296123002	**VH2 (IA)**	TO-15	MJL	8

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10296123

Sample: VH (VMP-13) **Lab ID: 10296123001** Collected: 02/04/15 10:02 Received: 02/06/15 09:45 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		02/08/15 01:11	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.1	1.39		02/08/15 01:11	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.8	1.39		02/08/15 01:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.39		02/08/15 01:11	156-60-5	
Tetrachloroethene	**1.7**	ug/m3	0.96	1.39		02/08/15 01:11	127-18-4	
1,1,1-Trichloroethane	**5.8**	ug/m3	0.97	1.39		02/08/15 01:11	71-55-6	
Trichloroethene	**229**	ug/m3	0.76	1.39		02/08/15 01:11	79-01-6	
Vinyl chloride	ND	ug/m3	0.36	1.39		02/08/15 01:11	75-01-4	

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ANALYTICAL RESULTS

Project: PRR
Pace Project No.: 10296123

Sample: VH2 (IA) **Lab ID: 10296123002** Collected: 02/04/15 10:06 Received: 02/06/15 09:45 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		02/08/15 00:35	75-00-3	
1,1-Dichloroethane	ND	ug/m3	1.2	1.49		02/08/15 00:35	75-34-3	
cis-1,2-Dichloroethene	ND	ug/m3	3.0	1.49		02/08/15 00:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		02/08/15 00:35	156-60-5	
Tetrachloroethene	**1.3**	ug/m3	1.0	1.49		02/08/15 00:35	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.0	1.49		02/08/15 00:35	71-55-6	
Trichloroethene	**1.7**	ug/m3	0.81	1.49		02/08/15 00:35	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		02/08/15 00:35	75-01-4	

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QUALITY CONTROL DATA

Project: PRR
Pace Project No.: 10296123

QC Batch: AIR/22457 | Analysis Method: TO-15
QC Batch Method: TO-15 | Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10296123001, 10296123002

METHOD BLANK: 1896260 | Matrix: Air
Associated Lab Samples: 10296123001, 10296123002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.70	02/07/15 14:41	
1,1-Dichloroethane	ug/m3	ND	0.82	02/07/15 14:41	
Chloroethane	ug/m3	ND	0.54	02/07/15 14:41	
cis-1,2-Dichloroethene	ug/m3	ND	2.0	02/07/15 14:41	
Tetrachloroethene	ug/m3	ND	0.69	02/07/15 14:41	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	02/07/15 14:41	
Trichloroethene	ug/m3	ND	0.55	02/07/15 14:41	
Vinyl chloride	ug/m3	ND	0.26	02/07/15 14:41	

LABORATORY CONTROL SAMPLE: 1896261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	48.4	87	72-140	
1,1-Dichloroethane	ug/m3	41.2	36.1	88	68-137	
Chloroethane	ug/m3	26.8	25.7	96	71-129	
cis-1,2-Dichloroethene	ug/m3	40.3	36.9	91	64-137	
Tetrachloroethene	ug/m3	69	58.9	85	66-137	
trans-1,2-Dichloroethene	ug/m3	40.3	34.0	84	61-140	
Trichloroethene	ug/m3	54.6	45.3	83	70-134	
Vinyl chloride	ug/m3	26	23.1	89	72-129	

SAMPLE DUPLICATE: 1896271

Parameter	Units	10296123001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	5.8	5.7	3	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	1.7	1.5	11	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	229	232	1	25	
Vinyl chloride	ug/m3	ND	ND		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PRR
Pace Project No.: 10296123

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.: 10296123

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10296123001	**VH (VMP-13)**	TO-15	AIR/22457		
10296123002	**VH2 (IA)**	TO-15	AIR/22457		

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US EPA ARCHIVE DOCUMENT

10296165

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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.

13974

Page: 1 of 1

Section A Required Client Information:

Company: Prairie Ronde Realty
Address: 415 E Prairie Ronde ST
Dowagiac MI 49047
Email To: davidmursch@earthlink.net
Phone: 269-782-2141 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: R David Mursch
Copy To: Brian DeLong
Purchase Order No.: NA
Project Name: PRR
Project Number: NA

Section C Invoice Information:

Attention: Brian DeLong
Company Name: 415 E Prairie Ronde St, Dowagiac MI 49047
Address: Prairie Ronde Realty Co
Pace Quote Reference:
Pace Project Manager/Sales Rep. Carolynne Trout
Pace Profile #:

Program: UST / Superfund / Emissions / Clean Air Act / ✓ Voluntary Clean Up / Dry Clean / RCRA / Other

Location of Sampling by State MI

Reporting Units: ug/m³ X mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other___

Section D Required Client Information

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start End/Grab DATE	TIME	Composite - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VH (VMP-13)			2-3-15	11:10a	2-4-15	10:02a	-30	-04	2360	0150							X			001
2	VH2 (I4)			2-3-15	11:14a	2-4-15	10:06a	-28	-04	0955	1028							X			002
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Brian DeLong / PRR	2-4-15		[illegible] Pace	2/6/15	0945

SAMPLE CONDITIONS

Temp in °C	AmB		
Received on Ice	Y/N	Y/N	Y/N
Custody Sealed Cooler	Y/N	Y/N	Y/N
Samples Intact	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brian DeLong

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY) 2-4-15

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26Dec2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.09	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Prairie Ronde Reality

Project #: WO#: 10296123

10296123

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 614617887903

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 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** 02615

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: air can				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
VH	2360		0150		
VH2	0955		1028		

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: CJM **Date:** 2/9/15

ote: 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 old, incorrect preservative, out of temp, incorrect containers)

US EPA ARCHIVE DOCUMENT

March 27, 2015

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
1503237	03/17/2015	Laboratory Services
1503246	03/14/2015	Laboratory Services

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:

ACLASS 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); 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

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Individual sample results relate only to the sample tested.
5560 Corporate Exchange Court SE ♦ Grand Rapids, MI 49512 ♦ 616.975.4500 ♦ Fax 616.942.7463 ♦ www.trimatrixlabs.com

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:

1503237-01	02-02
1503237-02	05-15
1503246-09	13-224A
1503246-10	98-224B
1503246-11	98-245A
1503246-17	06-17-2

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STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program.
No Qualification is required.

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503237**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**02-02**	Sampled:	03/16/15 13:05
Lab Sample ID:	**1503237-01**	Sampled By:	Melissa Hunter
Matrix:	Water	Received:	03/17/15 08:20
Unit:	ug/L	Prepared:	03/20/15 06:00 By: DLV
Dilution Factor:	2	Analyzed:	03/20/15 09:21 By: DLV
QC Batch:	1502551	Analytical Batch:	5C23019

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	**8.2**	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	**5.3**	2.0
79-00-5	1,1,2-Trichloroethane	<2.0	2.0
79-01-6	Trichloroethene	**230**	2.0
75-01-4	Vinyl Chloride	**41**	2.0
1330-20-7	Xylene (Total)	<6.0	6.0

Continued on next page

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503237**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**02-02**	Sampled:	03/16/15 13:05		
Lab Sample ID:	**1503237-01**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/17/15 08:20		
Unit:	ug/L	Prepared:	03/20/15 06:00	By:	DLV
Dilution Factor:	2	Analyzed:	03/20/15 09:21	By:	DLV
QC Batch:	1502551	Analytical Batch:	5C23019		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*103*	*85-118*
1,2-Dichloroethane-d4	*108*	*87-122*
Toluene-d8	*100*	*85-113*
4-Bromofluorobenzene	*98*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503237**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**05-15**	Sampled:	03/16/15 14:00
Lab Sample ID:	**1503237-02**	Sampled By:	Melissa Hunter
Matrix:	Water	Received:	03/17/15 08:20
Unit:	ug/L	Prepared:	03/20/15 06:00 By: DLV
Dilution Factor:	1	Analyzed:	03/20/15 08:50 By: DLV
QC Batch:	1502551	Analytical Batch:	5C23019

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	**0.33**	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	**0.28**	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	**1.1**	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	**3.0**	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503237**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**05-15**	Sampled:	03/16/15 14:00
Lab Sample ID:	**1503237-02**	Sampled By:	Melissa Hunter
Matrix:	Water	Received:	03/17/15 08:20
Unit:	ug/L	Prepared:	03/20/15 06:00 By: DLV
Dilution Factor:	1	Analyzed:	03/20/15 08:50 By: DLV
QC Batch:	1502551	Analytical Batch:	5C23019

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*102*	*85-118*
1,2-Dichloroethane-d4	*106*	*87-122*
Toluene-d8	*99*	*85-113*
4-Bromofluorobenzene	*98*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**83-17A**	Sampled:	03/11/15 10:55		
Lab Sample ID:	**1503246-01**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/18/15 22:03	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

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

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**83-17A**	Sampled:	03/11/15 10:55		
Lab Sample ID:	**1503246-01**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/18/15 22:03	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*96*	*85-118*
1,2-Dichloroethane-d4	*102*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*99*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**83-17B**	Sampled:	03/11/15 10:35
Lab Sample ID:	**1503246-02**	Sampled By:	Melissa Hunter
Matrix:	Water	Received:	03/14/15 09:02
Unit:	ug/L	Prepared:	03/18/15 19:00 By: DLV
Dilution Factor:	1	Analyzed:	03/18/15 22:31 By: DLV
QC Batch:	1502451	Analytical Batch:	5C19024

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	**36**	1.0
156-60-5	trans-1,2-Dichloroethene	**1.8**	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	**49**	1.0
75-01-4	Vinyl Chloride	**2.4**	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**83-17B**	Sampled:	03/11/15 10:35		
Lab Sample ID:	**1503246-02**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/18/15 22:31	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*97*	*85-118*
1,2-Dichloroethane-d4	*102*	*87-122*
Toluene-d8	*99*	*85-113*
4-Bromofluorobenzene	*99*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**83-19A**	Sampled:	03/11/15 14:30
Lab Sample ID:	**1503246-03**	Sampled By:	Melissa Hunter
Matrix:	Water	Received:	03/14/15 09:02
Unit:	ug/L	Prepared:	03/18/15 19:00 By: DLV
Dilution Factor:	1	Analyzed:	03/18/15 23:00 By: DLV
QC Batch:	1502451	Analytical Batch:	5C19024

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	**8.0**	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**83-19A**	Sampled:	03/11/15 14:30		
Lab Sample ID:	**1503246-03**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/18/15 23:00	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*96*	*85-118*
1,2-Dichloroethane-d4	*101*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*99*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**83-19B**	Sampled:	03/11/15 14:30		
Lab Sample ID:	**1503246-04**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/18/15 23:30	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

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	**39**	1.0
156-60-5	trans-1,2-Dichloroethene	**1.5**	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	**120**	1.0
75-01-4	Vinyl Chloride	**8.4**	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**83-19B**	Sampled:	03/11/15 14:30		
Lab Sample ID:	**1503246-04**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/18/15 23:30	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*98*	*85-118*
1,2-Dichloroethane-d4	*101*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*99*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**83-21A**	Sampled:	03/11/15 11:45
Lab Sample ID:	**1503246-05**	Sampled By:	Melissa Hunter
Matrix:	Water	Received:	03/14/15 09:02
Unit:	ug/L	Prepared:	03/18/15 19:00 By: DLV
Dilution Factor:	1	Analyzed:	03/19/15 00:00 By: DLV
QC Batch:	1502451	Analytical Batch:	5C19024

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	**2.9**	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**83-21A**	Sampled:	03/11/15 11:45		
Lab Sample ID:	**1503246-05**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/19/15 00:00	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*97*	*85-118*
1,2-Dichloroethane-d4	*101*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*99*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**83-21B**	Sampled:	03/11/15 11:50
Lab Sample ID:	**1503246-06**	Sampled By:	Melissa Hunter
Matrix:	Water	Received:	03/14/15 09:02
Unit:	ug/L	Prepared:	03/18/15 19:00 By: DLV
Dilution Factor:	1	Analyzed:	03/19/15 00:31 By: DLV
QC Batch:	1502451	Analytical Batch:	5C19024

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	**11**	1.0
156-60-5	trans-1,2-Dichloroethene	**2.4**	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	**51**	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**83-21B**	Sampled:	03/11/15 11:50		
Lab Sample ID:	**1503246-06**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/19/15 00:31	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*98*	*85-118*
1,2-Dichloroethane-d4	*101*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*98*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**83-28A**	Sampled:	03/11/15 12:55
Lab Sample ID:	**1503246-07**	Sampled By:	Melissa Hunter
Matrix:	Water	Received:	03/14/15 09:02
Unit:	ug/L	Prepared:	03/18/15 19:00 By: DLV
Dilution Factor:	1	Analyzed:	03/19/15 01:01 By: DLV
QC Batch:	1502451	Analytical Batch:	5C19024

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	**39**	1.0
156-60-5	trans-1,2-Dichloroethene	**5.9**	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	**2.6**	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**83-28A**	Sampled:	03/11/15 12:55		
Lab Sample ID:	**1503246-07**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/19/15 01:01	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*97*	*85-118*
1,2-Dichloroethane-d4	*101*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*98*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**83-28B**	Sampled:	03/11/15 12:30
Lab Sample ID:	**1503246-08**	Sampled By:	Melissa Hunter
Matrix:	Water	Received:	03/14/15 09:02
Unit:	ug/L	Prepared:	03/18/15 19:00 By: DLV
Dilution Factor:	1	Analyzed:	03/19/15 01:32 By: DLV
QC Batch:	1502451	Analytical Batch:	5C19024

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	**6.5**	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	**5.6**	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**83-28B**	Sampled:	03/11/15 12:30		
Lab Sample ID:	**1503246-08**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/19/15 01:32	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*97*	*85-118*
1,2-Dichloroethane-d4	*101*	*87-122*
Toluene-d8	*99*	*85-113*
4-Bromofluorobenzene	*98*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**13-224A**	Sampled:	03/11/15 15:45
Lab Sample ID:	**1503246-09**	Sampled By:	Melissa Hunter
Matrix:	Water	Received:	03/14/15 09:02
Unit:	ug/L	Prepared:	03/20/15 06:00 By: DLV
Dilution Factor:	1	Analyzed:	03/20/15 09:51 By: DLV
QC Batch:	1502551	Analytical Batch:	5C23019

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	**8.1**	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**13-224A**	Sampled:	03/11/15 15:45		
Lab Sample ID:	**1503246-09**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/20/15 06:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/20/15 09:51	By:	DLV
QC Batch:	1502551	Analytical Batch:	5C23019		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*103*	*85-118*
1,2-Dichloroethane-d4	*108*	*87-122*
Toluene-d8	*101*	*85-113*
4-Bromofluorobenzene	*98*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**98-224B**	Sampled:	03/11/15 15:40		
Lab Sample ID:	**1503246-10**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/20/15 06:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/20/15 16:30	By:	DLV
QC Batch:	1502551	Analytical Batch:	5C23019		

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	**16**	1.0
156-60-5	trans-1,2-Dichloroethene	**2.6**	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	**150**	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**98-224B**	Sampled:	03/11/15 15:40		
Lab Sample ID:	**1503246-10**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/20/15 06:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/20/15 16:30	By:	DLV
QC Batch:	1502551	Analytical Batch:	5C23019		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*102*	*85-118*
1,2-Dichloroethane-d4	*111*	*87-122*
Toluene-d8	*101*	*85-113*
4-Bromofluorobenzene	*99*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**98-245A**	Sampled:	03/11/15 12:35		
Lab Sample ID:	**1503246-11**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/20/15 06:00	By:	DLV
Dilution Factor:	2.5	Analyzed:	03/20/15 10:48	By:	DLV
QC Batch:	1502551	Analytical Batch:	5C23019		

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	**16**	2.5
156-60-5	trans-1,2-Dichloroethene	**3.9**	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	<2.5	2.5
79-00-5	1,1,2-Trichloroethane	<2.5	2.5
79-01-6	Trichloroethene	**260**	2.5
75-01-4	Vinyl Chloride	<2.5	2.5
1330-20-7	Xylene (Total)	<7.5	7.5

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**98-245A**	Sampled:	03/11/15 12:35		
Lab Sample ID:	**1503246-11**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/20/15 06:00	By:	DLV
Dilution Factor:	2.5	Analyzed:	03/20/15 10:48	By:	DLV
QC Batch:	1502551	Analytical Batch:	5C23019		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*104*	*85-118*
1,2-Dichloroethane-d4	*110*	*87-122*
Toluene-d8	*101*	*85-113*
4-Bromofluorobenzene	*99*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**02-03**	Sampled:	03/12/15 11:10
Lab Sample ID:	**1503246-12**	Sampled By:	Melissa Hunter
Matrix:	Water	Received:	03/14/15 09:02
Unit:	ug/L	Prepared:	03/18/15 19:00 By: DLV
Dilution Factor:	1	Analyzed:	03/19/15 02:02 By: DLV
QC Batch:	1502451	Analytical Batch:	5C19024

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	**1.4**	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**02-03**	Sampled:	03/12/15 11:10		
Lab Sample ID:	**1503246-12**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/19/15 02:02	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*96*	*85-118*
1,2-Dichloroethane-d4	*102*	*87-122*
Toluene-d8	*99*	*85-113*
4-Bromofluorobenzene	*99*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**02-04**	Sampled:	03/12/15 11:45
Lab Sample ID:	**1503246-13**	Sampled By:	Melissa Hunter
Matrix:	Water	Received:	03/14/15 09:02
Unit:	ug/L	Prepared:	03/18/15 19:00 By: DLV
Dilution Factor:	1	Analyzed:	03/19/15 02:32 By: DLV
QC Batch:	1502451	Analytical Batch:	5C19024

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	**17**	1.0
156-60-5	trans-1,2-Dichloroethene	**3.2**	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	**94**	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**02-04**	Sampled:	03/12/15 11:45		
Lab Sample ID:	**1503246-13**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/19/15 02:32	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*98*	*85-118*
1,2-Dichloroethane-d4	*101*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*98*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**Trip Blank TM3501**	Sampled:	03/12/15 00:00
Lab Sample ID:	**1503246-14**	Sampled By:	TML
Matrix:	Water	Received:	03/14/15 09:02
Unit:	ug/L	Prepared:	03/18/15 19:00 By: DLV
Dilution Factor:	1	Analyzed:	03/18/15 21:35 By: DLV
QC Batch:	1502451	Analytical Batch:	5C19024

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

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**Trip Blank TM3501**	Sampled:	03/12/15 00:00		
Lab Sample ID:	**1503246-14**	Sampled By:	TML		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/18/15 21:35	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*96*	*85-118*
1,2-Dichloroethane-d4	*102*	*87-122*
Toluene-d8	*99*	*85-113*
4-Bromofluorobenzene	*99*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**05-16**	Sampled:	03/12/15 09:55		
Lab Sample ID:	**1503246-15**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/19/15 03:03	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

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	**7.3**	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**05-16**	Sampled:	03/12/15 09:55		
Lab Sample ID:	**1503246-15**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/19/15 03:03	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*98*	*85-118*
1,2-Dichloroethane-d4	*102*	*87-122*
Toluene-d8	*99*	*85-113*
4-Bromofluorobenzene	*98*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**06-17-1**	Sampled:	03/11/15 09:25		
Lab Sample ID:	**1503246-16**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/19/15 03:32	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

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	**1.6**	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	**1.2**	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**56**	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**06-17-1**	Sampled:	03/11/15 09:25		
Lab Sample ID:	**1503246-16**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/19/15 03:32	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*98*	*85-118*
1,2-Dichloroethane-d4	*101*	*87-122*
Toluene-d8	*99*	*85-113*
4-Bromofluorobenzene	*98*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**06-17-2**	Sampled:	03/11/15 09:50
Lab Sample ID:	**1503246-17**	Sampled By:	Melissa Hunter
Matrix:	Water	Received:	03/14/15 09:02
Unit:	ug/L	Prepared:	03/20/15 06:00 By: DLV
Dilution Factor:	5	Analyzed:	03/20/15 11:17 By: DLV
QC Batch:	1502551	Analytical Batch:	5C23019

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	**26**	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	**61**	5.0
79-00-5	1,1,2-Trichloroethane	<5.0	5.0
79-01-6	Trichloroethene	**520**	5.0
75-01-4	Vinyl Chloride	<5.0	5.0
1330-20-7	Xylene (Total)	<15	15

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**06-17-2**	Sampled:	03/11/15 09:50		
Lab Sample ID:	**1503246-17**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/20/15 06:00	By:	DLV
Dilution Factor:	5	Analyzed:	03/20/15 11:17	By:	DLV
QC Batch:	1502551	Analytical Batch:	5C23019		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*107*	*85-118*
1,2-Dichloroethane-d4	*110*	*87-122*
Toluene-d8	*101*	*85-113*
4-Bromofluorobenzene	*98*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**
Project:	NCP Dowagiac, MI	Description:	Laboratory Services
Client Sample ID:	**06-20-1**	Sampled:	03/12/15 14:30
Lab Sample ID:	**1503246-18**	Sampled By:	Melissa Hunter
Matrix:	Water	Received:	03/14/15 09:02
Unit:	ug/L	Prepared:	03/18/15 19:00 By: DLV
Dilution Factor:	1	Analyzed:	03/19/15 04:32 By: DLV
QC Batch:	1502451	Analytical Batch:	5C19024

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

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**06-20-1**	Sampled:	03/12/15 14:30		
Lab Sample ID:	**1503246-18**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/19/15 04:32	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*99*	*85-118*
1,2-Dichloroethane-d4	*101*	*87-122*
Toluene-d8	*99*	*85-113*
4-Bromofluorobenzene	*98*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**06-20-2**	Sampled:	03/12/15 14:55		
Lab Sample ID:	**1503246-19**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/19/15 05:02	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

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

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ANALYTICAL REPORT

Client:	**Prairie Ronde Realty Company**	Work Order:	**1503246**		
Project:	NCP Dowagiac, MI	Description:	Laboratory Services		
Client Sample ID:	**06-20-2**	Sampled:	03/12/15 14:55		
Lab Sample ID:	**1503246-19**	Sampled By:	Melissa Hunter		
Matrix:	Water	Received:	03/14/15 09:02		
Unit:	ug/L	Prepared:	03/18/15 19:00	By:	DLV
Dilution Factor:	1	Analyzed:	03/19/15 05:02	By:	DLV
QC Batch:	1502451	Analytical Batch:	5C19024		

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*99*	*85-118*
1,2-Dichloroethane-d4	*103*	*87-122*
Toluene-d8	*99*	*85-113*
4-Bromofluorobenzene	*98*	*82-110*

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TRIMATRIX LABORATORIES

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: 1502451 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank Analyzed: 03/18/2015 By: DLV
Unit: ug/L Analytical Batch: 5C19024

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:					
Dibromofluoromethane			*96*	*85-118*	
1,2-Dichloroethane-d4			*100*	*87-122*	

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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: 1502451 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B								
Method Blank (Continued)					Analyzed:	03/18/2015	By: DLV	
Unit: ug/L					Analytical Batch:	5C19024		
Surrogates (Continued):								
Toluene-d8				*99*	*85-113*			
4-Bromofluorobenzene				*100*	*82-110*			
Laboratory Control Sample					Analyzed:	03/18/2015	By: DLV	
Unit: ug/L					Analytical Batch:	5C19024		
Benzene		40.0	**37.9**	95	84-119	--		1.0
Chlorobenzene		40.0	**37.4**	94	84-118	--		1.0
1,1-Dichloroethene		40.0	**37.2**	93	77-123	--		1.0
Toluene		40.0	**38.3**	96	85-118	--		1.0
Trichloroethene		40.0	**40.2**	101	82-119	--		1.0
Surrogates:								
Dibromofluoromethane				*101*	*85-118*			
1,2-Dichloroethane-d4				*101*	*87-122*			
Toluene-d8				*101*	*85-113*			
4-Bromofluorobenzene				*101*	*82-110*			
Matrix Spike 1503246-05 83-21A					Analyzed:	03/19/2015	By: DLV	
Unit: ug/L					Analytical Batch:	5C19024		
Benzene	<1.0	40.0	**39.5**	99	80-129	--		1.0
Chlorobenzene	<1.0	40.0	**38.2**	95	80-121	--		1.0
1,1-Dichloroethene	<1.0	40.0	**41.5**	104	74-134	--		1.0
Toluene	<1.0	40.0	**40.1**	100	79-129	--		1.0
Trichloroethene	2.94	40.0	**43.6**	102	75-127	--		1.0
Surrogates:								
Dibromofluoromethane				*104*	*85-118*			
1,2-Dichloroethane-d4				*102*	*87-122*			
Toluene-d8				*101*	*85-113*			
4-Bromofluorobenzene				*101*	*82-110*			
Matrix Spike Duplicate 1503246-05 83-21A					Analyzed:	03/19/2015	By: DLV	
Unit: ug/L					Analytical Batch:	5C19024		
Benzene	<1.0	40.0	**39.2**	98	80-129	0.7	9	1.0

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Volatile Organic Compounds by EPA Method 8260B (Continued)

QC Batch: 1502451 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Matrix Spike Duplicate (Continued) 1503246-05 83-21A — Analyzed: 03/19/2015 By: DLV
Unit: ug/L — Analytical Batch: 5C19024

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Chlorobenzene	<1.0	40.0	**38.5**	96	80-121	0.7	8	1.0
1,1-Dichloroethene	<1.0	40.0	**41.1**	103	74-134	0.9	11	1.0
Toluene	<1.0	40.0	**40.0**	100	79-129	0.1	9	1.0
Trichloroethene	2.94	40.0	**43.2**	101	75-127	0.8	10	1.0
Surrogates:								
Dibromofluoromethane				*103*	*85-118*			
1,2-Dichloroethane-d4				*101*	*87-122*			
Toluene-d8				*100*	*85-113*			
4-Bromofluorobenzene				*101*	*82-110*			

QC Batch: 1502551 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank — Analyzed: 03/20/2015 By: DLV
Unit: ug/L — Analytical Batch: 5C23019

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

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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: 1502551 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B								
Method Blank (Continued)					Analyzed:		03/20/2015	By: DLV
Unit: ug/L					Analytical Batch:		5C23019	
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:								
Dibromofluoromethane				*102*	*85-118*			
1,2-Dichloroethane-d4				*106*	*87-122*			
Toluene-d8				*100*	*85-113*			
4-Bromofluorobenzene				*99*	*82-110*			
Laboratory Control Sample					Analyzed:		03/20/2015	By: DLV
Unit: ug/L					Analytical Batch:		5C23019	
Benzene		40.0	**37.3**	93	84-119	--	1.0	
Chlorobenzene		40.0	**37.1**	93	84-118	--	1.0	
1,1-Dichloroethene		40.0	**39.5**	99	77-123	--	1.0	
Toluene		40.0	**38.9**	97	85-118	--	1.0	
Trichloroethene		40.0	**39.4**	99	82-119	--	1.0	
Surrogates:								
Dibromofluoromethane				*106*	*85-118*			
1,2-Dichloroethane-d4				*104*	*87-122*			
Toluene-d8				*103*	*85-113*			
4-Bromofluorobenzene				*101*	*82-110*			
Matrix Spike 1503237-01 02-02					Analyzed:		03/20/2015	By: DLV
Unit: ug/L					Analytical Batch:		5C23019	
Benzene	<2.0	80.0	**73.6**	92	80-129	--	2.0	

Continued on next page

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Individual sample results relate only to the sample tested.

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

QC Batch: 1502551 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Matrix Spike (Continued) 1503237-01 02-02 — Analyzed: 03/20/2015 By: DLV
Unit: ug/L — Analytical Batch: 5C23019

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Chlorobenzene	<2.0	80.0	**74.3**	93	80-121	--		2.0
1,1-Dichloroethene	<2.0	80.0	**75.1**	94	74-134	--		2.0
Toluene	<2.0	80.0	**76.9**	96	79-129	--		2.0
Trichloroethene	235	80.0	**296**	77	75-127	--		2.0
Surrogates:								
Dibromofluoromethane				*107*	*85-118*			
1,2-Dichloroethane-d4				*109*	*87-122*			
Toluene-d8				*103*	*85-113*			
4-Bromofluorobenzene				*105*	*82-110*			

Matrix Spike Duplicate 1503237-01 02-02 — Analyzed: 03/20/2015 By: DLV
Unit: ug/L — Analytical Batch: 5C23019

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Benzene	<2.0	80.0	**74.3**	93	80-129	0.9	9	2.0
Chlorobenzene	<2.0	80.0	**74.6**	93	80-121	0.4	8	2.0
1,1-Dichloroethene	<2.0	80.0	**74.3**	93	74-134	1	11	2.0
Toluene	<2.0	80.0	**77.5**	97	79-129	0.8	9	2.0
Trichloroethene	235	80.0	**300**	81	75-127	1	10	2.0
Surrogates:								
Dibromofluoromethane				*107*	*85-118*			
1,2-Dichloroethane-d4				*107*	*87-122*			
Toluene-d8				*102*	*85-113*			
4-Bromofluorobenzene				*103*	*82-110*			

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Chain of Custody Record

COC No. 13732

Pg. 1 of 1

For Lab Use Only

Cart: –

VOA Rack/Tray: 476W

Receipt Log No.: 39.2

Project Chemist:

Work Order No.: 1503237

Client Name: Prairie Ronde Realty Co.

Address:

City, State Zip:

Phone/Fax:

Email:

Project Name: NCP- Dowagiac

Client Project No. / P.O. No.:

Invoice To: [X] Client [ ] Other (comments)

Contact/Report To: David Mursch | Lisa Phillips

Analyses Requested: D VOCs

Container Type (corresponds to Container Packing List): 1

Number of Containers Submitted

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 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	COMP	GRAB	Matrix		Total	Sample Comments
		01	1	02-02		3/16/15	1:05			W	2	0	
		02	2	05-15		↓	2:00			↓	↓	0	
		X	3	02-02 MS/MSD		↓	1:05			↓	↓	0	
			4									0	
			5									0	
			6									0	
			7									0	
			8									0	
			9									0	
			10									0	

Sampled By (print): Melissa Hunter

Sampler's Signature: Melissa Hunter

Company: Phillips Environmental Consulting

How Shipped? Hand ___ Carrier FedEx

Tracking No.: 5794 1564 0560

Comments: Sampled by Phillips Environmental. Contact Lisa Phillips (269) 624-4211. This concludes the quarterly sampling.

		Date	Time
1. Relinquished By	Melissa Hunter	3/16/15	4:30
1. Received By			
2. Relinquished By			
2. Received By			
3. Relinquished By			
3. Received For Lab By		3.17.15	08[illegible]

SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: Prairie Ronde	Work Order #: 1503237
Receipt Record Page/Line #: 39.2	New / Add To:
	Project Chemist:
	Sample #s:

Recorded by (initials/date): WC 3-17-15

☑ Cooler ☐ Box ☐ Other ____ | Qty Received: 1

Thermometer Used: ☑ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#____) ☐ See Additional Cooler Information Form

Cooler #	Time	Custody Seals	Coolant Type	Coolant Location	Temp Blank Present	If Present, Temperature Blank Location is
—	0900	☐ None ☑ Present / Intact ☑ Present / Not Intact	☐ Loose Ice ☑ Bagged Ice ☐ Blue Ice ☐ None	Dispersed / Top / (Middle) / Bottom	☐ Yes ☐ No	☐ Representative ☐ Not Representative
		☐ None ☐ Present / Intact ☐ Present / Not Intact	☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	Dispersed / Top / Middle / Bottom	☐ Yes ☐ No	☐ Representative ☐ Not Representative
		☐ None ☐ Present / Intact ☐ Present / Not Intact	☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	Dispersed / Top / Middle / Bottom	☐ Yes ☐ No	☐ Representative ☐ Not Representative
		☐ None ☐ Present / Intact ☐ Present / Not Intact	☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	Dispersed / Top / Middle / Bottom	☐ Yes ☐ No	☐ Representative ☐ Not Representative

	Observed °C	Correction Factor °C	Actual °C
Temp Blank			
Sample 1	9.8	-	9.8
Sample 2	9.9	-	9.9
Sample 3	9.0	-	9.0
3 Sample Average °C:	9.6		

	Observed °C	Correction Factor °C	Actual °C
Temp Blank			
Sample 1			
Sample 2			
Sample 3			
3 Sample Average °C:			

	Observed °C	Correction Factor °C	Actual °C
Temp Blank			
Sample 1			
Sample 2			
Sample 3			
3 Sample Average °C:			

	Observed °C	Correction Factor °C	Actual °C
Temp Blank			
Sample 1			
Sample 2			
Sample 3			
3 Sample Average °C:			

☐ Cooler ID on COC? ☐ 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 ____

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?

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 ☐ Na_2SO_4

Check for Short Hold-Time Prep/Analyses

- ☐ Bacteriological
- ☐ Air Bags
- ☐ EnCores / Methanol Pre-Preserved
- ☐ Formaldehyde/Aldehyde
- ☐ Green-tagged containers
- ☐ 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	
	☐	☐	Broken containers/lids?
	☐	☐	Missing or incomplete labels?
	☐	☐	Illegible information on labels?
	☐	☐	Low volume received?
	☐	☐	Inappropriate or non-TriMatrix containers received?
☐	☐	☐	VOC vials / TOX containers have headspace?
☐	☐	☐	Extra sample locations / containers not listed on COC?

Notes

☐ Trip Blank received ☐ Trip Blank not listed on COC

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
3-17-15 0820	3-17-15 0905	(Yes) / No

TRIMATRIX LABORATORIES

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Chain of Custody Record

COC No. 150756

Pg. 1 of 2

For Lab Use Only
Cart: —
VOA Rack/Tray: 37HG, 36HG
Receipt Log No.: 352
Project Chemist:
Work Order No.: 1503246

Client Name: Prairie Ronde Realty Co.
Address:
City, State Zip:
Phone/Fax:
Email:

Project Name: NCP-Dowagiac
Client Project No. / P.O. No.:
Invoice To: ☒ Client ☐ Other (comments)
Contact/Report To: David Mursch | Lisa Phillips

Analyses Requested: D VOCs

Container Type (corresponds to Container Packing List): 1

Number of Containers Submitted

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 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	COMP	GRAB	Matrix	Total	Sample Comments
		01	1	83-17A	TM3501	3/11/15	10:55			W	2	
		02	2	83-17B		3/11/15	10:35					
		03	3	83-19A		3/11/15	2:30					
		04	4	83-19B		3/11/15	2:30					
		05	5	83-21A		3/11/15	11:45					
		06	6	83-21B		3/11/15	11:50					
		07	7	83-28A		3/11/15	12:55					
		08	8	83-28B		3/11/15	12:30					
		09	9	~~98-224A~~ 98 (13)-224A		3/11/15	3:45					
		10	10	98-224B		3/11/15	3:40					

Sampled By (print): Melissa Hunter
Sampler's Signature: Melissa Hunter
Company: Phillips Environmental Consulting

How Shipped? Hand ___ Carrier FedEx
Tracking No.:

Comments: Sampled by Phillips Environmental Consulting - Contact - Lisa Phillips (269) 624-4211

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Melissa Hunter	3/13/15	4:00						

1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						Heather L Brady	3-14-15	9:0

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

TRIMATRIX LABORATORIES

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Chain of Custody Record

COC No. 150757

Pg. 2 of 2

For Lab Use Only
Cart: —
VOA Rack/Tray: 37AG, 36AG
Receipt Log No.: 35-2
Project Chemist:
Work Order No.: 15032416

Client Name: Prairie Ronde Realty Co.
Address:
City, State Zip:
Phone/Fax:
Email:

Project Name: NCP-Dowagiac
Client Project No. / P.O. No.:
Invoice To: ☒ Client ☐ Other (comments)
Contact/Report To: David Mursh/Lisa Phillips

Analyses Requested: VOCs (D)

PRESERVATIVES: A NONE pH~7; B HNO_3 pH<2; C H_2SO_4 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	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List)	Total	Sample Comments
		11	1 98-245A	TM3501	3/11/15	12:35			W	2		
		X	2 ~~[illegible]~~ 83-21A dup/MS/MSD		3/11/15	11:45						
		12	3 02-03		3/12/15	11:10						
		13	4 02-04		3/12/15	11:45						
		14	5 ~~[illegible]~~ Trip Blank		~~[illegible]~~					1		
		15	6 05-16		3/12/15	9:55				2		
		16	7 06-17-1		3/11/15	9:25						
		17	8 06-17-2		3/11/15	9:50						
		18	9 06-20-1		3/12/15	2:30						
		19	10 06-20-2		3/12/15	2:55						

Number of Containers Submitted

Sampled By (print): Melissa Hunter
Sampler's Signature: Melissa Hunter
Company: Phillips Environmental Consulting

How Shipped? Hand ___ Carrier Fedex
Tracking No.: 5794 1564 0560

Comments: Remaining samples to be sent next week - tentatively Mon., 3/16/15. Sample #2 is labeled 83-21A dup/MS/MSD

Relinquished By	Date	Time
1. Melissa Hunter	3/13/15	4:00
2.		
3.		

Received By	Date	Time
1.		
2.		
3. Matthew L Brady	3-14-15	9:0 AM

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: Praire Pointe Realty CO.
Receipt Record Page/Line #: 35.2
Work Order #: 1503246
New / Add To
Project Chemist
Sample #s

Recorded by (initials/date): ALB 3-14-15

☒ Cooler ☐ Box ☐ Other ALB 3-14-15 — Qty Received: 1

Thermometer Used: ☒ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#_____) ☐ See Additional Cooler Information Form

Cooler #	TM3501		
Time	9:05AM		
Custody Seals	☐ None ☒ Present / Intact ☐ Present / Not Intact		
Coolant Type	☐ Loose Ice ☒ Bagged Ice ☐ Blue Ice ☐ None		
Coolant Location	Dispersed / (Top) / Middle / Bottom		
Temp Blank Present	☒ Yes ☐ No		
If Present, Temperature Blank Location is	☒ Representative ☐ Not Representative		
	Observed °C	Correction Factor °C	Actual °C
Temp Blank	8.5		
Sample 1	5.5	–	5.5
Sample 2	6.8	–	6.8
Sample 3	8.7	–	8.7
3 Sample Average °C	7.0		
☐ Cooler ID on COC?			
☒ VOC Trip Blank received?			

Cooler #			
Time			
Custody Seals	☐ None ☐ Present / Intact ☐ Present / Not Intact		
Coolant Type	☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None		
Coolant Location	Dispersed / Top / Middle / Bottom		
Temp Blank Present	☐ Yes ☐ No		
If Present, Temperature Blank Location is	☐ Representative ☐ Not Representative		
	Observed °C	Correction Factor °C	Actual °C
Temp Blank			
Sample 1			
Sample 2			
Sample 3			
3 Sample Average °C			
☐ Cooler ID on COC?			
☐ VOC Trip Blank received?			

Cooler #			
Time			
Custody Seals	☐ None ☐ Present / Intact ☐ Present / Not Intact		
Coolant Type	☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None		
Coolant Location	Dispersed / Top / Middle / Bottom		
Temp Blank Present	☐ Yes ☐ No		
If Present, Temperature Blank Location is	☐ Representative ☐ Not Representative		
	Observed °C	Correction Factor °C	Actual °C
Temp Blank			
Sample 1			
Sample 2			
Sample 3			
3 Sample Average °C			
☐ Cooler ID on COC?			
☐ VOC Trip Blank received?			

Cooler #			
Time			
Custody Seals	☐ None ☐ Present / Intact ☐ Present / Not Intact		
Coolant Type	☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None		
Coolant Location	Dispersed / Top / Middle / Bottom		
Temp Blank Present	☐ Yes ☐ No		
If Present, Temperature Blank Location is	☐ Representative ☐ Not Representative		
	Observed °C	Correction Factor °C	Actual °C
Temp Blank			
Sample 1			
Sample 2			
Sample 3			
3 Sample Average °C			
☐ Cooler ID on COC?			
☐ 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 _____

COC ID Numbers: 150756, 150757

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?

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 ☐ Na_2SO_4

Check for Short Hold-Time Prep/Analyses

- ☐ Bacteriological
- ☐ Air Bags
- ☐ EnCores / Methanol Pre-Preserved
- ☐ Formaldehyde/Aldehyde
- ☐ Green-tagged containers
- ☐ 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	
	☐	☐	Broken containers/lids?
	☐	☐	Missing or incomplete labels?
	☐	☐	Illegible information on labels?
	☐	☐	Low volume received?
	☐	☐	Inappropriate or non-TriMatrix containers received?
☐	☐	☐	VOC vials / TOX containers have headspace?
☐	☐	☐	Extra sample locations / containers not listed on COC?

Notes

☒ Trip Blank received ☐ Trip Blank not listed on COC

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
3.14.15 0902	3.14.15 0915	(Yes) / No